EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

EN

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EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Cooling Only

EN

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PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-2035-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	29.2	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	29.2	kW
T_j = + 30 ºC	**Pdc**	20.2	kW
T_j = + 25 ºC	**Pdc**	12.3	kW
T_j = + 20 ºC	**Pdc**	9.6	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	174.7	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.95	%
T_j = + 30 ºC	EER_d	4.06	%
T_j = + 25 ºC	EER_d	5.22	%
T_j = + 20 ºC	EER_d	5.55	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	80.4	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	22000	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-2050-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	38.4	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	38.4	kW
T_j = + 30 ºC	**Pdc**	25.4	kW
T_j = + 25 ºC	**Pdc**	16.3	kW
T_j = + 20 ºC	**Pdc**	14.1	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	175.3	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.76	%
T_j = + 30 ºC	EER_d	3.92	%
T_j = + 25 ºC	EER_d	5.19	%
T_j = + 20 ºC	EER_d	5.92	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	80.8	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	22000	m^3/h

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PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-2055-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	47.2	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	47.2	kW
T_j = + 30 ºC	**Pdc**	31.3	kW
T_j = + 25 ºC	**Pdc**	23.5	kW
T_j = + 20 ºC	**Pdc**	17.5	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	173.7	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.78	%
T_j = + 30 ºC	EER_d	3.90	%
T_j = + 25 ºC	EER_d	4.99	%
T_j = + 20 ºC	EER_d	5.97	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	82.4	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	22000	m^3/h

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PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-5060-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	49.8	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	49.8	kW
T_j = + 30 ºC	**Pdc**	33.1	kW
T_j = + 25 ºC	**Pdc**	21.5	kW
T_j = + 20 ºC	**Pdc**	16.7	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	168.3	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.80	%
T_j = + 30 ºC	EER_d	3.94	%
T_j = + 25 ºC	EER_d	5.05	%
T_j = + 20 ºC	EER_d	5.31	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	82.3	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

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PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-5070-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	58.1	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	58.1	kW
T_j = + 30 ºC	**Pdc**	38.5	kW
T_j = + 25 ºC	**Pdc**	24.7	kW
T_j = + 20 ºC	**Pdc**	19.3	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	172.9	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.86	%
T_j = + 30 ºC	EER_d	3.93	%
T_j = + 25 ºC	EER_d	5.17	%
T_j = + 20 ºC	EER_d	5.55	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	84.3	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

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PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-6100-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	76.8	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	76.8	kW
T_j = + 30 ºC	**Pdc**	50.9	kW
T_j = + 25 ºC	**Pdc**	32.8	kW
T_j = + 20 ºC	**Pdc**	28.1	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	176.6	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.76	%
T_j = + 30 ºC	EER_d	3.93	%
T_j = + 25 ºC	EER_d	5.20	%
T_j = + 20 ºC	EER_d	5.95	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	82.6	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

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PACÍFICA PRO AIR-WATER CHILLER

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-6120-RVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	94.4	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	94.4	kW
T_j = + 30 ºC	**Pdc**	62.6	kW
T_j = + 25 ºC	**Pdc**	46.9	kW
T_j = + 20 ºC	**Pdc**	35.0	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	174.7	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.78	%
T_j = + 30 ºC	EER_d	3.91	%
T_j = + 25 ºC	EER_d	5.01	%
T_j = + 20 ºC	EER_d	5.99	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	84.6	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

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EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Cooling Mode)

EN

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PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-2035-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	29.2	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	29.2	kW
T_j = + 30 ºC	**Pdc**	20.2	kW
T_j = + 25 ºC	**Pdc**	12.3	kW
T_j = + 20 ºC	**Pdc**	9.6	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	174.7	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.95	%
T_j = + 30 ºC	EER_d	4.06	%
T_j = + 25 ºC	EER_d	5.22	%
T_j = + 20 ºC	EER_d	5.55	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	80.4	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	22000	m^3/h

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PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-2050-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	38.4	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	***Pdc***	38.4	kW
T_j = + 30 ºC	***Pdc***	25.4	kW
T_j = + 25 ºC	***Pdc***	16.3	kW
T_j = + 20 ºC	***Pdc***	14.1	kW
Degradation coefficient	***Cdc***	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	175.3	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.76	%
T_j = + 30 ºC	EER_d	3.92	%
T_j = + 25 ºC	EER_d	5.19	%
T_j = + 20 ºC	EER_d	5.92	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	80.8	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	22000	m^3/h

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PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-2055-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	47.2	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	47.2	kW
T_j = + 30 ºC	**Pdc**	31.7	kW
T_j = + 25 ºC	**Pdc**	23.5	kW
T_j = + 20 ºC	**Pdc**	17.5	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	173.5	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.78	%
T_j = + 30 ºC	EER_d	3.89	%
T_j = + 25 ºC	EER_d	4.99	%
T_j = + 20 ºC	EER_d	5.97	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	82.4	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	22000	m^3/h

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PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-5060-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	49.8	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	***Pdc***	49.8	kW
T_j = + 30 ºC	***Pdc***	33.1	kW
T_j = + 25 ºC	***Pdc***	21.5	kW
T_j = + 20 ºC	***Pdc***	16.7	kW
Degradation coefficient	***Cdc***	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	168.3	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.80	%
T_j = + 30 ºC	EER_d	3.94	%
T_j = + 25 ºC	EER_d	5.05	%
T_j = + 20 ºC	EER_d	5.31	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	82.3	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-5070-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	58.1	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	***Pdc***	58.1	kW
T_j = + 30 ºC	***Pdc***	38.5	kW
T_j = + 25 ºC	***Pdc***	24.7	kW
T_j = + 20 ºC	***Pdc***	19.3	kW
Degradation coefficient	***Cdc***	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	172.9	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.86	%
T_j = + 30 ºC	EER_d	3.93	%
T_j = + 25 ºC	EER_d	5.17	%
T_j = + 20 ºC	EER_d	5.55	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	84.3	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-6100-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	76.8	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	76.8	kW
T_j = + 30 ºC	**Pdc**	50.9	kW
T_j = + 25 ºC	**Pdc**	32.7	kW
T_j = + 20 ºC	**Pdc**	28.1	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	176.6	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.76	%
T_j = + 30 ºC	EER_d	3.93	%
T_j = + 25 ºC	EER_d	5.21	%
T_j = + 20 ºC	EER_d	5.95	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	82.6	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

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PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model		**KWEB-6120-IVS4D**
Refrigerant fluid		R290
Outdoor heat exchanger of the chiller:		Air
Indoor heat exchanger of the chiller:		Water
Aplication temperatures	12/7ºC	Low temperature
Type:		Vapor compression by compressor
Compressor drive:		Electric motor

Refrigeration Mode

Element	Symbol	Value	Unit
Declared cooling capacity	$P_{rated,c}$	94.4	kW
Declared cooling capacity for part load at the given outdoor temperatures T j and indoor temperature of 27°C/19°C (dry/wet bulb)			
T_j = + 35 ºC	**Pdc**	94.4	kW
T_j = + 30 ºC	**Pdc**	62.6	kW
T_j = + 25 ºC	**Pdc**	46.9	kW
T_j = + 20 ºC	**Pdc**	35.0	kW
Degradation coefficient	**Cdc**	0.9	---

Element	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	174.7	%
Declared energy efficiency ratio or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = + 35 ºC	EER_d	2.78	%
T_j = + 30 ºC	EER_d	3.91	%
T_j = + 25 ºC	EER_d	5.01	%
T_j = + 20 ºC	EER_d	5.99	%

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW

Crankcase heater mode	P_{CK}	0.000	kW
Standby mode	P_{SB}	0.024	kW

Other elements

Power control	Gradual		
Sound power level (indoor/outdoor)	L_{WA}	84.6	dB(A)
Nitrogen oxide emissions	NO_x	0	mg/kWh of fuel consumption (GCV)
Refrigerant GWP	---	3	Global warming potential (100 years)

Air-to-air air conditioners: airflow (outdoor)	---	44000	m^3/h

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EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

EN

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EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

Average climate 30/35ºC

EN

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PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	27.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	22.2	kW
T_j = + 2 ºC	***Pdh***	13.5	kW
T_j = + 7 ºC	***Pdh***	10.3	kW
T_j = + 12 ºC	***Pdh***	12.1	kW
T j = bivalent temperature	***Pdh***	27.9	kW
T j = operational limit	***Pdh***	27.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	187.4	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.99	---
T_j = + 2 ºC	COP_d	4.79	---
T_j = + 7 ºC	COP_d	6.04	---
T_j = + 12 ºC	COP_d	7.77	---
T j = bivalent temperature	COP_d	2.24	---
T j = operational limit	COP_d	2.24	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	37.6	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	29.9	kW
T_j = + 2 ºC	***Pdh***	18.2	kW
T_j = + 7 ºC	***Pdh***	14.6	kW
T_j = + 12 ºC	***Pdh***	17.2	kW
T j = bivalent temperature	***Pdh***	37.6	kW
T j = operational limit	***Pdh***	37.6	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	186.0	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.99	---
T_j = + 2 ºC	COP_d	4.74	---
T_j = + 7 ºC	COP_d	6.05	---
T_j = + 12 ºC	COP_d	7.92	---
T j = bivalent temperature	COP_d	2.24	---
T j = operational limit	COP_d	2.24	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	44.3	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	35.2	kW
T_j = + 2 ºC	***Pdh***	21.4	kW
T_j = + 7 ºC	***Pdh***	18.1	kW
T_j = + 12 ºC	***Pdh***	21.3	kW
T j = bivalent temperature	***Pdh***	44.3	kW
T j = operational limit	***Pdh***	44.3	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	193.4	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	3.04	---
T_j = + 2 ºC	COP_d	4.97	---
T_j = + 7 ºC	COP_d	6.37	---
T_j = + 12 ºC	COP_d	8.16	---
T j = bivalent temperature	COP_d	2.25	---
T j = operational limit	COP_d	2.25	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	49.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	39.4	kW
T_j = + 2 ºC	***Pdh***	24.0	kW
T_j = + 7 ºC	***Pdh***	18.8	kW
T_j = + 12 ºC	***Pdh***	21.1	kW
T j = bivalent temperature	***Pdh***	49.5	kW
T j = operational limit	***Pdh***	49.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	176.9	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.73	---
T_j = + 2 ºC	COP_d	4.54	---
T_j = + 7 ºC	COP_d	5.80	---
T_j = + 12 ºC	COP_d	7.48	---
T j = bivalent temperature	COP_d	2.07	---
T j = operational limit	COP_d	2.07	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	55.7	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	44.3	kW
T_j = + 2 ºC	***Pdh***	27.0	kW
T_j = + 7 ºC	***Pdh***	20.6	kW
T_j = + 12 ºC	***Pdh***	24.2	kW
T j = bivalent temperature	***Pdh***	55.7	kW
T j = operational limit	***Pdh***	55.7	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	186.2	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.94	---
T_j = + 2 ºC	COP_d	4.77	---
T_j = + 7 ºC	COP_d	6.03	---
T_j = + 12 ºC	COP_d	7.76	---
T j = bivalent temperature	COP_d	2.18	---
T j = operational limit	COP_d	2.18	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	75.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	59.8	kW
T_j = + 2 ºC	***Pdh***	36.4	kW
T_j = + 7 ºC	***Pdh***	29.2	kW
T_j = + 12 ºC	***Pdh***	34.3	kW
T j = bivalent temperature	***Pdh***	75.1	kW
T j = operational limit	***Pdh***	75.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.99	---
T_j = + 2 ºC	COP_d	4.75	---
T_j = + 7 ºC	COP_d	6.08	---
T_j = + 12 ºC	COP_d	7.96	---
T j = bivalent temperature	COP_d	2.24	---
T j = operational limit	COP_d	2.24	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	88.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	70.5	kW
T_j = + 2 ºC	***Pdh***	42.9	kW
T_j = + 7 ºC	***Pdh***	36.3	kW
T_j = + 12 ºC	***Pdh***	42.6	kW
T j = bivalent temperature	***Pdh***	88.5	kW
T j = operational limit	***Pdh***	88.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	194.0	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	3.04	---
T_j = + 2 ºC	COP_d	4.98	---
T_j = + 7 ºC	COP_d	6.39	---
T_j = + 12 ºC	COP_d	8.19	---
T j = bivalent temperature	COP_d	2.25	---
T j = operational limit	COP_d	2.25	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

Average climate 47/55ºC

EN

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PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	28.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	22.3	kW
T_j = + 2 ºC	***Pdh***	14.1	kW
T_j = + 7 ºC	***Pdh***	10.7	kW
T_j = + 12 ºC	***Pdh***	11.7	kW
T j = bivalent temperature	***Pdh***	28.0	kW
T j = operational limit	***Pdh***	28.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	142.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.63	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.13	---
T_j = + 2 ºC	COP_d	3.60	---
T_j = + 7 ºC	COP_d	4.80	---
T_j = + 12 ºC	COP_d	6.67	---
T j = bivalent temperature	COP_d	1.68	---
T j = operational limit	COP_d	1.68	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	38.3	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	30.5	kW
T_j = + 2 ºC	***Pdh***	18.6	kW
T_j = + 7 ºC	***Pdh***	14.6	kW
T_j = + 12 ºC	***Pdh***	16.6	kW
T j = bivalent temperature	***Pdh***	38.3	kW
T j = operational limit	***Pdh***	38.3	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	143.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.67	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.16	---
T_j = + 2 ºC	COP_d	3.63	---
T_j = + 7 ºC	COP_d	4.86	---
T_j = + 12 ºC	COP_d	6.76	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	45.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	35.9	kW
T_j = + 2 ºC	***Pdh***	21.8	kW
T_j = + 7 ºC	***Pdh***	17.3	kW
T_j = + 12 ºC	***Pdh***	20.6	kW
T j = bivalent temperature	***Pdh***	45.1	kW
T j = operational limit	***Pdh***	45.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	148.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.78	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.20	---
T_j = + 2 ºC	COP_d	3.74	---
T_j = + 7 ºC	COP_d	5.06	---
T_j = + 12 ºC	COP_d	7.00	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	49.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	39.1	kW
T_j = + 2 ºC	***Pdh***	23.8	kW
T_j = + 7 ºC	***Pdh***	18.7	kW
T_j = + 12 ºC	***Pdh***	20.4	kW
T j = bivalent temperature	***Pdh***	49.1	kW
T j = operational limit	***Pdh***	49.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	136.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.49	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.00	---
T_j = + 2 ºC	COP_d	3.47	---
T_j = + 7 ºC	COP_d	4.67	---
T_j = + 12 ºC	COP_d	6.43	---
T j = bivalent temperature	COP_d	1.60	---
T j = operational limit	COP_d	1.60	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	56.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	44.6	kW
T_j = + 2 ºC	***Pdh***	27.1	kW
T_j = + 7 ºC	***Pdh***	21.3	kW
T_j = + 12 ºC	***Pdh***	23.3	kW
T j = bivalent temperature	***Pdh***	56.0	kW
T j = operational limit	***Pdh***	56.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	141.1	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.60	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.10	---
T_j = + 2 ºC	COP_d	3.58	---
T_j = + 7 ºC	COP_d	4.78	---
T_j = + 12 ºC	COP_d	6.65	---
T j = bivalent temperature	COP_d	1.66	---
T j = operational limit	COP_d	1.66	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	76.6	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	61.0	kW
T_j = + 2 ºC	***Pdh***	37.1	kW
T_j = + 7 ºC	***Pdh***	29.2	kW
T_j = + 12 ºC	***Pdh***	33.2	kW
T j = bivalent temperature	***Pdh***	76.6	kW
T j = operational limit	***Pdh***	76.6	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	143.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.68	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.16	---
T_j = + 2 ºC	COP_d	3.64	---
T_j = + 7 ºC	COP_d	4.88	---
T_j = + 12 ºC	COP_d	6.79	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	90.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	71.8	kW
T_j = + 2 ºC	***Pdh***	43.7	kW
T_j = + 7 ºC	***Pdh***	34.6	kW
T_j = + 12 ºC	***Pdh***	41.3	kW
T j = bivalent temperature	***Pdh***	90.1	kW
T j = operational limit	***Pdh***	90.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	148.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.78	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.20	---
T_j = + 2 ºC	COP_d	3.75	---
T_j = + 7 ºC	COP_d	5.08	---
T_j = + 12 ºC	COP_d	7.02	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

Average climate 55/65ºC

EN

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PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	28.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	22.7	kW
T_j = + 2 ºC	***Pdh***	15.1	kW
T_j = + 7 ºC	***Pdh***	10.9	kW
T_j = + 12 ºC	***Pdh***	11.5	kW
T j = bivalent temperature	***Pdh***	28.5	kW
T j = operational limit	***Pdh***	28.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	122.2	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.13	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.82	---
T_j = + 2 ºC	COP_d	3.06	---
T_j = + 7 ºC	COP_d	4.20	---
T_j = + 12 ºC	COP_d	6.31	---
T j = bivalent temperature	COP_d	1.48	---
T j = operational limit	COP_d	1.48	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	39.3	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	31.3	kW
T_j = + 2 ºC	***Pdh***	19.0	kW
T_j = + 7 ºC	***Pdh***	14.9	kW
T_j = + 12 ºC	***Pdh***	16.4	kW
T j = bivalent temperature	***Pdh***	39.3	kW
T j = operational limit	***Pdh***	39.3	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	123.7	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.17	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.85	---
T_j = + 2 ºC	COP_d	3.08	---
T_j = + 7 ºC	COP_d	4.29	---
T_j = + 12 ºC	COP_d	6.38	---
T j = bivalent temperature	COP_d	1.52	---
T j = operational limit	COP_d	1.52	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	46.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	36.6	kW
T_j = + 2 ºC	***Pdh***	22.3	kW
T_j = + 7 ºC	***Pdh***	17.5	kW
T_j = + 12 ºC	***Pdh***	20.4	kW
T j = bivalent temperature	***Pdh***	46.0	kW
T j = operational limit	***Pdh***	46.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	127.4	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.26	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.89	---
T_j = + 2 ºC	COP_d	3.17	---
T_j = + 7 ºC	COP_d	4.44	---
T_j = + 12 ºC	COP_d	6.63	---
T j = bivalent temperature	COP_d	1.53	---
T j = operational limit	COP_d	1.53	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	49.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	39.6	kW
T_j = + 2 ºC	***Pdh***	24.1	kW
T_j = + 7 ºC	***Pdh***	19.0	kW
T_j = + 12 ºC	***Pdh***	20.1	kW
T j = bivalent temperature	***Pdh***	49.8	kW
T j = operational limit	***Pdh***	49.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	118.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.03	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.73	---
T_j = + 2 ºC	COP_d	2.96	---
T_j = + 7 ºC	COP_d	4.12	---
T_j = + 12 ºC	COP_d	6.10	---
T j = bivalent temperature	COP_d	1.42	---
T j = operational limit	COP_d	1.42	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	57.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	45.4	kW
T_j = + 2 ºC	***Pdh***	29.6	kW
T_j = + 7 ºC	***Pdh***	21.7	kW
T_j = + 12 ºC	***Pdh***	23.0	kW
T j = bivalent temperature	***Pdh***	57.1	kW
T j = operational limit	***Pdh***	57.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	121.4	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.11	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.80	---
T_j = + 2 ºC	COP_d	3.04	---
T_j = + 7 ºC	COP_d	4.19	---
T_j = + 12 ºC	COP_d	6.29	---
T j = bivalent temperature	COP_d	1.46	---
T j = operational limit	COP_d	1.46	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	78.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	62.5	kW
T_j = + 2 ºC	***Pdh***	38.0	kW
T_j = + 7 ºC	***Pdh***	29.9	kW
T_j = + 12 ºC	***Pdh***	32.8	kW
T j = bivalent temperature	***Pdh***	78.5	kW
T j = operational limit	***Pdh***	78.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	124.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.18	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.85	---
T_j = + 2 ºC	COP_d	3.09	---
T_j = + 7 ºC	COP_d	4.30	---
T_j = + 12 ºC	COP_d	6.41	---
T j = bivalent temperature	COP_d	1.52	---
T j = operational limit	COP_d	1.52	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	92.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	73.2	kW
T_j = + 2 ºC	***Pdh***	44.6	kW
T_j = + 7 ºC	***Pdh***	35.0	kW
T_j = + 12 ºC	***Pdh***	40.8	kW
T j = bivalent temperature	***Pdh***	92.0	kW
T j = operational limit	***Pdh***	92.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	127.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.27	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.89	---
T_j = + 2 ºC	COP_d	3.18	---
T_j = + 7 ºC	COP_d	4.45	---
T_j = + 12 ºC	COP_d	6.65	---
T j = bivalent temperature	COP_d	1.53	---
T j = operational limit	COP_d	1.53	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

Warmer climate 30/35ºC

EN

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PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	37.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	37.9	kW
T_j = + 7 ºC	***Pdh***	21.9	kW
T_j = + 12 ºC	***Pdh***	12.0	kW
T j = bivalent temperature	***Pdh***	37.9	kW
T j = operational limit	***Pdh***	37.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	232.7	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	3.02	---
T_j = + 7 ºC	COP_d	5.34	---
T_j = + 12 ºC	COP_d	7.33	---
T j = bivalent temperature	COP_d	3.02	---
T j = operational limit	COP_d	3.02	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	50.6	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	50.6	kW
T_j = + 7 ºC	***Pdh***	29.3	kW
T_j = + 12 ºC	***Pdh***	17.0	kW
T j = bivalent temperature	***Pdh***	50.6	kW
T j = operational limit	***Pdh***	50.6	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	229.6	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.92	---
T_j = + 7 ºC	COP_d	5.23	---
T_j = + 12 ºC	COP_d	7.41	---
T j = bivalent temperature	COP_d	2.92	---
T j = operational limit	COP_d	2.92	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	58.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	58.5	kW
T_j = + 7 ºC	***Pdh***	33.9	kW
T_j = + 12 ºC	***Pdh***	21.1	kW
T j = bivalent temperature	***Pdh***	58.5	kW
T j = operational limit	***Pdh***	58.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	235.9	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.90	---
T_j = + 7 ºC	COP_d	5.39	---
T_j = + 12 ºC	COP_d	7.70	---
T j = bivalent temperature	COP_d	2.90	---
T j = operational limit	COP_d	2.90	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	66.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	66.9	kW
T_j = + 7 ºC	***Pdh***	38.7	kW
T_j = + 12 ºC	***Pdh***	20.9	kW
T j = bivalent temperature	***Pdh***	66.9	kW
T j = operational limit	***Pdh***	66.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	219.6	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.80	---
T_j = + 7 ºC	COP_d	4.96	---
T_j = + 12 ºC	COP_d	7.07	---
T j = bivalent temperature	COP_d	2.80	---
T j = operational limit	COP_d	2.80	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	75.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	75.8	kW
T_j = + 7 ºC	***Pdh***	43.8	kW
T_j = + 12 ºC	***Pdh***	23.9	kW
T j = bivalent temperature	***Pdh***	75.8	kW
T j = operational limit	***Pdh***	75.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	231.3	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.95	---
T_j = + 7 ºC	COP_d	5.29	---
T_j = + 12 ºC	COP_d	7.32	---
T j = bivalent temperature	COP_d	2.95	---
T j = operational limit	COP_d	2.95	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	101.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	101.1	kW
T_j = + 7 ºC	***Pdh***	58.5	kW
T_j = + 12 ºC	***Pdh***	33.9	kW
T j = bivalent temperature	***Pdh***	101.1	kW
T j = operational limit	***Pdh***	101.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	230.5	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.92	---
T_j = + 7 ºC	COP_d	5.24	---
T_j = + 12 ºC	COP_d	7.45	---
T j = bivalent temperature	COP_d	2.92	---
T j = operational limit	COP_d	2.92	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	117.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	117.0	kW
T_j = + 7 ºC	***Pdh***	67.7	kW
T_j = + 12 ºC	***Pdh***	42.2	kW
T j = bivalent temperature	***Pdh***	117.0	kW
T j = operational limit	***Pdh***	117.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	236.7	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.90	---
T_j = + 7 ºC	COP_d	5.40	---
T_j = + 12 ºC	COP_d	7.73	---
T j = bivalent temperature	COP_d	2.90	---
T j = operational limit	COP_d	2.90	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

Warmer climate 47/55ºC

EN

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PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	36.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	36.0	kW
T_j = + 7 ºC	***Pdh***	20.8	kW
T_j = + 12 ºC	***Pdh***	11.4	kW
T j = bivalent temperature	***Pdh***	36.0	kW
T j = operational limit	***Pdh***	36.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	172.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.42	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.14	---
T_j = + 7 ºC	COP_d	3.73	---
T_j = + 12 ºC	COP_d	5.91	---
T j = bivalent temperature	COP_d	2.14	---
T j = operational limit	COP_d	2.14	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	48.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	48.8	kW
T_j = + 7 ºC	***Pdh***	28.3	kW
T_j = + 12 ºC	***Pdh***	16.2	kW
T j = bivalent temperature	***Pdh***	48.8	kW
T j = operational limit	***Pdh***	48.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	172.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.42	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.15	---
T_j = + 7 ºC	COP_d	3.73	---
T_j = + 12 ºC	COP_d	5.97	---
T j = bivalent temperature	COP_d	2.15	---
T j = operational limit	COP_d	2.15	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	56.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	56.8	kW
T_j = + 7 ºC	***Pdh***	32.9	kW
T_j = + 12 ºC	***Pdh***	20.2	kW
T j = bivalent temperature	***Pdh***	56.8	kW
T j = operational limit	***Pdh***	56.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	177.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.52	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.12	---
T_j = + 7 ºC	COP_d	3.81	---
T_j = + 12 ºC	COP_d	6.23	---
T j = bivalent temperature	COP_d	2.12	---
T j = operational limit	COP_d	2.12	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	62.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	62.9	kW
T_j = + 7 ºC	***Pdh***	36.4	kW
T_j = + 12 ºC	***Pdh***	19.9	kW
T j = bivalent temperature	***Pdh***	62.9	kW
T j = operational limit	***Pdh***	62.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	165.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.24	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.03	---
T_j = + 7 ºC	COP_d	3.54	---
T_j = + 12 ºC	COP_d	5.75	---
T j = bivalent temperature	COP_d	2.03	---
T j = operational limit	COP_d	2.03	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	71.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	71.9	kW
T_j = + 7 ºC	***Pdh***	41.6	kW
T_j = + 12 ºC	***Pdh***	22.8	kW
T j = bivalent temperature	***Pdh***	71.9	kW
T j = operational limit	***Pdh***	71.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	171.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.39	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.10	---
T_j = + 7 ºC	COP_d	3.70	---
T_j = + 12 ºC	COP_d	5.90	---
T j = bivalent temperature	COP_d	2.10	---
T j = operational limit	COP_d	2.10	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	97.7	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	97.7	kW
T_j = + 7 ºC	***Pdh***	56.5	kW
T_j = + 12 ºC	***Pdh***	32.5	kW
T j = bivalent temperature	***Pdh***	97.7	kW
T j = operational limit	***Pdh***	97.7	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	173.4	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.43	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.15	---
T_j = + 7 ºC	COP_d	3.74	---
T_j = + 12 ºC	COP_d	6.00	---
T j = bivalent temperature	COP_d	2.15	---
T j = operational limit	COP_d	2.15	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	113.7	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	113.7	kW
T_j = + 7 ºC	***Pdh***	65.8	kW
T_j = + 12 ºC	***Pdh***	40.3	kW
T j = bivalent temperature	***Pdh***	113.7	kW
T j = operational limit	***Pdh***	113.7	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	177.8	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.53	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.12	---
T_j = + 7 ºC	COP_d	3.82	---
T_j = + 12 ºC	COP_d	6.25	---
T j = bivalent temperature	COP_d	2.12	---
T j = operational limit	COP_d	2.12	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Reversible Heat Pump (Heating Mode)

Warmer climate 55/65ºC

EN

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PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	35.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	35.5	kW
T_j = + 7 ºC	***Pdh***	20.6	kW
T_j = + 12 ºC	***Pdh***	11.2	kW
T j = bivalent temperature	***Pdh***	35.5	kW
T j = operational limit	***Pdh***	35.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	147.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.78	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.81	---
T_j = + 7 ºC	COP_d	3.16	---
T_j = + 12 ºC	COP_d	5.12	---
T j = bivalent temperature	COP_d	1.81	---
T j = operational limit	COP_d	1.81	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	48.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	48.5	kW
T_j = + 7 ºC	***Pdh***	28.1	kW
T_j = + 12 ºC	***Pdh***	15.8	kW
T j = bivalent temperature	***Pdh***	48.5	kW
T j = operational limit	***Pdh***	48.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	147.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.79	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.84	---
T_j = + 7 ºC	COP_d	3.16	---
T_j = + 12 ºC	COP_d	5.18	---
T j = bivalent temperature	COP_d	1.84	---
T j = operational limit	COP_d	1.84	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	56.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	56.5	kW
T_j = + 7 ºC	***Pdh***	32.7	kW
T_j = + 12 ºC	***Pdh***	19.6	kW
T j = bivalent temperature	***Pdh***	56.5	kW
T j = operational limit	***Pdh***	56.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	152.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.89	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.82	---
T_j = + 7 ºC	COP_d	3.24	---
T_j = + 12 ºC	COP_d	5.42	---
T j = bivalent temperature	COP_d	1.82	---
T j = operational limit	COP_d	1.82	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	61.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	61.9	kW
T_j = + 7 ºC	***Pdh***	35.8	kW
T_j = + 12 ºC	***Pdh***	19.4	kW
T j = bivalent temperature	***Pdh***	61.9	kW
T j = operational limit	***Pdh***	61.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	142.7	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.66	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.73	---
T_j = + 7 ºC	COP_d	3.02	---
T_j = + 12 ºC	COP_d	5.02	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	71.2	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	71.2	kW
T_j = + 7 ºC	***Pdh***	41.2	kW
T_j = + 12 ºC	***Pdh***	22.4	kW
T j = bivalent temperature	***Pdh***	71.2	kW
T j = operational limit	***Pdh***	71.2	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	146.8	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.76	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.78	---
T_j = + 7 ºC	COP_d	3.14	---
T_j = + 12 ºC	COP_d	5.10	---
T j = bivalent temperature	COP_d	1.78	---
T j = operational limit	COP_d	1.78	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	97.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	97.0	kW
T_j = + 7 ºC	***Pdh***	56.1	kW
T_j = + 12 ºC	***Pdh***	31.6	kW
T j = bivalent temperature	***Pdh***	97.0	kW
T j = operational limit	***Pdh***	97.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	148.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.79	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.84	---
T_j = + 7 ºC	COP_d	3.17	---
T_j = + 12 ºC	COP_d	5.20	---
T j = bivalent temperature	COP_d	1.84	---
T j = operational limit	COP_d	1.84	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO

REVERSIBLE AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-IVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	113.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	113.0	kW
T_j = + 7 ºC	***Pdh***	65.4	kW
T_j = + 12 ºC	***Pdh***	39.2	kW
T j = bivalent temperature	***Pdh***	113.0	kW
T j = operational limit	***Pdh***	113.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	152.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.90	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.82	---
T_j = + 7 ºC	COP_d	3.25	---
T_j = + 12 ºC	COP_d	5.44	---
T j = bivalent temperature	COP_d	1.82	---
T j = operational limit	COP_d	1.82	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

EN

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EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

Average climate 30/35ºC

EN

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PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	27.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	22.2	kW
T_j = + 2 ºC	***Pdh***	13.5	kW
T_j = + 7 ºC	***Pdh***	10.3	kW
T_j = + 12 ºC	***Pdh***	12.1	kW
T j = bivalent temperature	***Pdh***	27.9	kW
T j = operational limit	***Pdh***	27.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	187.4	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.99	---
T_j = + 2 ºC	COP_d	4.79	---
T_j = + 7 ºC	COP_d	6.04	---
T_j = + 12 ºC	COP_d	7.77	---
T j = bivalent temperature	COP_d	2.24	---
T j = operational limit	COP_d	2.24	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	37.6	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	29.9	kW
T_j = + 2 ºC	***Pdh***	18.2	kW
T_j = + 7 ºC	***Pdh***	14.6	kW
T_j = + 12 ºC	***Pdh***	17.2	kW
T j = bivalent temperature	***Pdh***	37.6	kW
T j = operational limit	***Pdh***	37.6	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	186.0	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.99	---
T_j = + 2 ºC	COP_d	4.74	---
T_j = + 7 ºC	COP_d	6.05	---
T_j = + 12 ºC	COP_d	7.92	---
T j = bivalent temperature	COP_d	2.24	---
T j = operational limit	COP_d	2.24	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	44.3	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	35.2	kW
T_j = + 2 ºC	***Pdh***	21.4	kW
T_j = + 7 ºC	***Pdh***	18.1	kW
T_j = + 12 ºC	***Pdh***	21.3	kW
T j = bivalent temperature	***Pdh***	44.3	kW
T j = operational limit	***Pdh***	44.3	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	193.4	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	3.04	---
T_j = + 2 ºC	COP_d	4.97	---
T_j = + 7 ºC	COP_d	6.37	---
T_j = + 12 ºC	COP_d	8.16	---
T j = bivalent temperature	COP_d	2.25	---
T j = operational limit	COP_d	2.25	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	49.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	39.4	kW
T_j = + 2 ºC	***Pdh***	24.0	kW
T_j = + 7 ºC	***Pdh***	18.8	kW
T_j = + 12 ºC	***Pdh***	21.1	kW
T j = bivalent temperature	***Pdh***	49.5	kW
T j = operational limit	***Pdh***	49.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	176.9	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.73	---
T_j = + 2 ºC	COP_d	4.54	---
T_j = + 7 ºC	COP_d	5.80	---
T_j = + 12 ºC	COP_d	7.48	---
T j = bivalent temperature	COP_d	2.07	---
T j = operational limit	COP_d	2.07	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	55.7	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	44.3	kW
T_j = + 2 ºC	***Pdh***	27.0	kW
T_j = + 7 ºC	***Pdh***	20.6	kW
T_j = + 12 ºC	***Pdh***	24.2	kW
T j = bivalent temperature	***Pdh***	55.7	kW
T j = operational limit	***Pdh***	55.7	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	186.2	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.94	---
T_j = + 2 ºC	COP_d	4.77	---
T_j = + 7 ºC	COP_d	6.03	---
T_j = + 12 ºC	COP_d	7.76	---
T j = bivalent temperature	COP_d	2.18	---
T j = operational limit	COP_d	2.18	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	75.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	59.8	kW
T_j = + 2 ºC	***Pdh***	36.4	kW
T_j = + 7 ºC	***Pdh***	29.2	kW
T_j = + 12 ºC	***Pdh***	34.3	kW
T j = bivalent temperature	***Pdh***	75.1	kW
T j = operational limit	***Pdh***	75.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.99	---
T_j = + 2 ºC	COP_d	4.75	---
T_j = + 7 ºC	COP_d	6.08	---
T_j = + 12 ºC	COP_d	7.96	---
T j = bivalent temperature	COP_d	2.24	---
T j = operational limit	COP_d	2.24	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	88.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	70.5	kW
T_j = + 2 ºC	***Pdh***	42.9	kW
T_j = + 7 ºC	***Pdh***	36.3	kW
T_j = + 12 ºC	***Pdh***	42.6	kW
T j = bivalent temperature	***Pdh***	88.5	kW
T j = operational limit	***Pdh***	88.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	194.0	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	3.04	---
T_j = + 2 ºC	COP_d	4.98	---
T_j = + 7 ºC	COP_d	6.39	---
T_j = + 12 ºC	COP_d	8.19	---
T j = bivalent temperature	COP_d	2.25	---
T j = operational limit	COP_d	2.25	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

Average climate 47/55ºC

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PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	28.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	22.3	kW
T_j = + 2 ºC	***Pdh***	14.1	kW
T_j = + 7 ºC	***Pdh***	10.7	kW
T_j = + 12 ºC	***Pdh***	11.7	kW
T j = bivalent temperature	***Pdh***	28.0	kW
T j = operational limit	***Pdh***	28.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	142.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.63	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.13	---
T_j = + 2 ºC	COP_d	3.60	---
T_j = + 7 ºC	COP_d	4.80	---
T_j = + 12 ºC	COP_d	6.67	---
T j = bivalent temperature	COP_d	1.68	---
T j = operational limit	COP_d	1.68	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	38.3	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	30.5	kW
T_j = + 2 ºC	***Pdh***	18.6	kW
T_j = + 7 ºC	***Pdh***	14.6	kW
T_j = + 12 ºC	***Pdh***	16.6	kW
T j = bivalent temperature	***Pdh***	38.3	kW
T j = operational limit	***Pdh***	38.3	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	143.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.67	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.16	---
T_j = + 2 ºC	COP_d	3.63	---
T_j = + 7 ºC	COP_d	4.86	---
T_j = + 12 ºC	COP_d	6.76	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	45.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	35.9	kW
T_j = + 2 ºC	***Pdh***	21.8	kW
T_j = + 7 ºC	***Pdh***	17.3	kW
T_j = + 12 ºC	***Pdh***	20.6	kW
T j = bivalent temperature	***Pdh***	45.1	kW
T j = operational limit	***Pdh***	45.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	148.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.78	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.20	---
T_j = + 2 ºC	COP_d	3.74	---
T_j = + 7 ºC	COP_d	5.06	---
T_j = + 12 ºC	COP_d	7.00	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	49.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	39.1	kW
T_j = + 2 ºC	***Pdh***	23.8	kW
T_j = + 7 ºC	***Pdh***	18.7	kW
T_j = + 12 ºC	***Pdh***	20.4	kW
T j = bivalent temperature	***Pdh***	49.1	kW
T j = operational limit	***Pdh***	49.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	136.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.49	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.00	---
T_j = + 2 ºC	COP_d	3.47	---
T_j = + 7 ºC	COP_d	4.67	---
T_j = + 12 ºC	COP_d	6.43	---
T j = bivalent temperature	COP_d	1.60	---
T j = operational limit	COP_d	1.60	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	56.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	44.6	kW
T_j = + 2 ºC	***Pdh***	27.1	kW
T_j = + 7 ºC	***Pdh***	21.3	kW
T_j = + 12 ºC	***Pdh***	23.3	kW
T j = bivalent temperature	***Pdh***	56.0	kW
T j = operational limit	***Pdh***	56.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	141.1	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.60	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.10	---
T_j = + 2 ºC	COP_d	3.58	---
T_j = + 7 ºC	COP_d	4.78	---
T_j = + 12 ºC	COP_d	6.65	---
T j = bivalent temperature	COP_d	1.66	---
T j = operational limit	COP_d	1.66	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	76.6	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	61.0	kW
T_j = + 2 ºC	***Pdh***	37.1	kW
T_j = + 7 ºC	***Pdh***	29.2	kW
T_j = + 12 ºC	***Pdh***	33.2	kW
T j = bivalent temperature	***Pdh***	76.6	kW
T j = operational limit	***Pdh***	76.6	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	143.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.68	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.16	---
T_j = + 2 ºC	COP_d	3.64	---
T_j = + 7 ºC	COP_d	4.88	---
T_j = + 12 ºC	COP_d	6.79	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	90.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	71.8	kW
T_j = + 2 ºC	***Pdh***	43.7	kW
T_j = + 7 ºC	***Pdh***	34.6	kW
T_j = + 12 ºC	***Pdh***	41.3	kW
T j = bivalent temperature	***Pdh***	90.1	kW
T j = operational limit	***Pdh***	90.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	148.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.78	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	2.20	---
T_j = + 2 ºC	COP_d	3.75	---
T_j = + 7 ºC	COP_d	5.08	---
T_j = + 12 ºC	COP_d	7.02	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

Average climate 55/65ºC

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PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	28.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	22.7	kW
T_j = + 2 ºC	***Pdh***	15.1	kW
T_j = + 7 ºC	***Pdh***	10.9	kW
T_j = + 12 ºC	***Pdh***	11.5	kW
T j = bivalent temperature	***Pdh***	28.5	kW
T j = operational limit	***Pdh***	28.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	122.2	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.13	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.82	---
T_j = + 2 ºC	COP_d	3.06	---
T_j = + 7 ºC	COP_d	4.20	---
T_j = + 12 ºC	COP_d	6.31	---
T j = bivalent temperature	COP_d	1.48	---
T j = operational limit	COP_d	1.48	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	39.3	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	31.3	kW
T_j = + 2 ºC	***Pdh***	19.0	kW
T_j = + 7 ºC	***Pdh***	14.9	kW
T_j = + 12 ºC	***Pdh***	16.4	kW
T j = bivalent temperature	***Pdh***	39.3	kW
T j = operational limit	***Pdh***	39.3	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	123.7	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.17	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.85	---
T_j = + 2 ºC	COP_d	3.08	---
T_j = + 7 ºC	COP_d	4.29	---
T_j = + 12 ºC	COP_d	6.38	---
T j = bivalent temperature	COP_d	1.52	---
T j = operational limit	COP_d	1.52	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	46.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	36.6	kW
T_j = + 2 ºC	***Pdh***	22.3	kW
T_j = + 7 ºC	***Pdh***	17.5	kW
T_j = + 12 ºC	***Pdh***	20.4	kW
T j = bivalent temperature	***Pdh***	46.0	kW
T j = operational limit	***Pdh***	46.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	127.4	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.26	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.89	---
T_j = + 2 ºC	COP_d	3.17	---
T_j = + 7 ºC	COP_d	4.44	---
T_j = + 12 ºC	COP_d	6.63	---
T j = bivalent temperature	COP_d	1.53	---
T j = operational limit	COP_d	1.53	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	49.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	39.6	kW
T_j = + 2 ºC	***Pdh***	24.1	kW
T_j = + 7 ºC	***Pdh***	19.0	kW
T_j = + 12 ºC	***Pdh***	20.1	kW
T j = bivalent temperature	***Pdh***	49.8	kW
T j = operational limit	***Pdh***	49.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	118.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.03	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.73	---
T_j = + 2 ºC	COP_d	2.96	---
T_j = + 7 ºC	COP_d	4.12	---
T_j = + 12 ºC	COP_d	6.10	---
T j = bivalent temperature	COP_d	1.42	---
T j = operational limit	COP_d	1.42	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	57.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	45.4	kW
T_j = + 2 ºC	***Pdh***	29.6	kW
T_j = + 7 ºC	***Pdh***	21.7	kW
T_j = + 12 ºC	***Pdh***	23.0	kW
T j = bivalent temperature	***Pdh***	57.1	kW
T j = operational limit	***Pdh***	57.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	121.4	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.11	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.80	---
T_j = + 2 ºC	COP_d	3.04	---
T_j = + 7 ºC	COP_d	4.19	---
T_j = + 12 ºC	COP_d	6.29	---
T j = bivalent temperature	COP_d	1.46	---
T j = operational limit	COP_d	1.46	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	78.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	62.5	kW
T_j = + 2 ºC	***Pdh***	38.0	kW
T_j = + 7 ºC	***Pdh***	29.9	kW
T_j = + 12 ºC	***Pdh***	32.8	kW
T j = bivalent temperature	***Pdh***	78.5	kW
T j = operational limit	***Pdh***	78.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	124.0	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.18	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.85	---
T_j = + 2 ºC	COP_d	3.09	---
T_j = + 7 ºC	COP_d	4.30	---
T_j = + 12 ºC	COP_d	6.41	---
T j = bivalent temperature	COP_d	1.52	---
T j = operational limit	COP_d	1.52	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	92.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	73.2	kW
T_j = + 2 ºC	***Pdh***	44.6	kW
T_j = + 7 ºC	***Pdh***	35.0	kW
T_j = + 12 ºC	***Pdh***	40.8	kW
T j = bivalent temperature	***Pdh***	92.0	kW
T j = operational limit	***Pdh***	92.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	-10	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	127.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.27	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	1.89	---
T_j = + 2 ºC	COP_d	3.18	---
T_j = + 7 ºC	COP_d	4.45	---
T_j = + 12 ºC	COP_d	6.65	---
T j = bivalent temperature	COP_d	1.53	---
T j = operational limit	COP_d	1.53	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

Warmer climate 30/35ºC

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PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	37.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	37.9	kW
T_j = + 7 ºC	***Pdh***	21.9	kW
T_j = + 12 ºC	***Pdh***	12.0	kW
T j = bivalent temperature	***Pdh***	37.9	kW
T j = operational limit	***Pdh***	37.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	232.7	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	3.02	---
T_j = + 7 ºC	COP_d	5.34	---
T_j = + 12 ºC	COP_d	7.33	---
T j = bivalent temperature	COP_d	3.02	---
T j = operational limit	COP_d	3.02	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	50.6	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	50.6	kW
T_j = + 7 ºC	***Pdh***	29.3	kW
T_j = + 12 ºC	***Pdh***	17.0	kW
T j = bivalent temperature	***Pdh***	50.6	kW
T j = operational limit	***Pdh***	50.6	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	229.6	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.92	---
T_j = + 7 ºC	COP_d	5.23	---
T_j = + 12 ºC	COP_d	7.41	---
T j = bivalent temperature	COP_d	2.92	---
T j = operational limit	COP_d	2.92	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	58.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	58.5	kW
T_j = + 7 ºC	***Pdh***	33.9	kW
T_j = + 12 ºC	***Pdh***	21.1	kW
T j = bivalent temperature	***Pdh***	58.5	kW
T j = operational limit	***Pdh***	58.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	235.9	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.90	---
T_j = + 7 ºC	COP_d	5.39	---
T_j = + 12 ºC	COP_d	7.70	---
T j = bivalent temperature	COP_d	2.90	---
T j = operational limit	COP_d	2.90	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	66.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	66.9	kW
T_j = + 7 ºC	***Pdh***	38.7	kW
T_j = + 12 ºC	***Pdh***	20.9	kW
T j = bivalent temperature	***Pdh***	66.9	kW
T j = operational limit	***Pdh***	66.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	219.6	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.80	---
T_j = + 7 ºC	COP_d	4.96	---
T_j = + 12 ºC	COP_d	7.07	---
T j = bivalent temperature	COP_d	2.80	---
T j = operational limit	COP_d	2.80	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	75.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	75.8	kW
T_j = + 7 ºC	***Pdh***	43.8	kW
T_j = + 12 ºC	***Pdh***	23.9	kW
T j = bivalent temperature	***Pdh***	75.8	kW
T j = operational limit	***Pdh***	75.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	231.3	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.95	---
T_j = + 7 ºC	COP_d	5.29	---
T_j = + 12 ºC	COP_d	7.32	---
T j = bivalent temperature	COP_d	2.95	---
T j = operational limit	COP_d	2.95	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	101.1	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	101.1	kW
T_j = + 7 ºC	***Pdh***	58.5	kW
T_j = + 12 ºC	***Pdh***	33.9	kW
T j = bivalent temperature	***Pdh***	101.1	kW
T j = operational limit	***Pdh***	101.1	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	230.5	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.92	---
T_j = + 7 ºC	COP_d	5.24	---
T_j = + 12 ºC	COP_d	7.45	---
T j = bivalent temperature	COP_d	2.92	---
T j = operational limit	COP_d	2.92	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	30/35ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	117.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	117.0	kW
T_j = + 7 ºC	***Pdh***	67.7	kW
T_j = + 12 ºC	***Pdh***	42.2	kW
T j = bivalent temperature	***Pdh***	117.0	kW
T j = operational limit	***Pdh***	117.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	236.7	%
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.90	---
T_j = + 7 ºC	COP_d	5.40	---
T_j = + 12 ºC	COP_d	7.73	---
T j = bivalent temperature	COP_d	2.90	---
T j = operational limit	COP_d	2.90	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

Warmer climate 47/55ºC

EN

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PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	36.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	36.0	kW
T_j = + 7 ºC	***Pdh***	20.8	kW
T_j = + 12 ºC	***Pdh***	11.4	kW
T j = bivalent temperature	***Pdh***	36.0	kW
T j = operational limit	***Pdh***	36.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	172.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.42	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.14	---
T_j = + 7 ºC	COP_d	3.73	---
T_j = + 12 ºC	COP_d	5.91	---
T j = bivalent temperature	COP_d	2.14	---
T j = operational limit	COP_d	2.14	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	48.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	48.8	kW
T_j = + 7 ºC	***Pdh***	28.3	kW
T_j = + 12 ºC	***Pdh***	16.2	kW
T j = bivalent temperature	***Pdh***	48.8	kW
T j = operational limit	***Pdh***	48.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	172.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.42	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.15	---
T_j = + 7 ºC	COP_d	3.73	---
T_j = + 12 ºC	COP_d	5.97	---
T j = bivalent temperature	COP_d	2.15	---
T j = operational limit	COP_d	2.15	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	56.8	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	56.8	kW
T_j = + 7 ºC	***Pdh***	32.9	kW
T_j = + 12 ºC	***Pdh***	20.2	kW
T j = bivalent temperature	***Pdh***	56.8	kW
T j = operational limit	***Pdh***	56.8	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	177.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.52	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.12	---
T_j = + 7 ºC	COP_d	3.81	---
T_j = + 12 ºC	COP_d	6.23	---
T j = bivalent temperature	COP_d	2.12	---
T j = operational limit	COP_d	2.12	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	62.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	62.9	kW
T_j = + 7 ºC	***Pdh***	36.4	kW
T_j = + 12 ºC	***Pdh***	19.9	kW
T j = bivalent temperature	***Pdh***	62.9	kW
T j = operational limit	***Pdh***	62.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	165.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.24	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.03	---
T_j = + 7 ºC	COP_d	3.54	---
T_j = + 12 ºC	COP_d	5.75	---
T j = bivalent temperature	COP_d	2.03	---
T j = operational limit	COP_d	2.03	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	71.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	71.9	kW
T_j = + 7 ºC	***Pdh***	41.6	kW
T_j = + 12 ºC	***Pdh***	22.8	kW
T j = bivalent temperature	***Pdh***	71.9	kW
T j = operational limit	***Pdh***	71.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	171.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.39	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.10	---
T_j = + 7 ºC	COP_d	3.70	---
T_j = + 12 ºC	COP_d	5.90	---
T j = bivalent temperature	COP_d	2.10	---
T j = operational limit	COP_d	2.10	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	97.7	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	97.7	kW
T_j = + 7 ºC	***Pdh***	56.5	kW
T_j = + 12 ºC	***Pdh***	32.5	kW
T j = bivalent temperature	***Pdh***	97.7	kW
T j = operational limit	***Pdh***	97.7	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	173.4	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.43	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.15	---
T_j = + 7 ºC	COP_d	3.74	---
T_j = + 12 ºC	COP_d	6.00	---
T j = bivalent temperature	COP_d	2.15	---
T j = operational limit	COP_d	2.15	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	47/55ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	113.7	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	113.7	kW
T_j = + 7 ºC	***Pdh***	65.8	kW
T_j = + 12 ºC	***Pdh***	40.3	kW
T j = bivalent temperature	***Pdh***	113.7	kW
T j = operational limit	***Pdh***	113.7	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	177.8	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	4.53	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	2.12	---
T_j = + 7 ºC	COP_d	3.82	---
T_j = + 12 ºC	COP_d	6.25	---
T j = bivalent temperature	COP_d	2.12	---
T j = operational limit	COP_d	2.12	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

EcoDesign Manual

Air-to-water chillers and heat pumps | high temperature up to 75ºC

PACIFICA PRO KWEB

COMFORT

Heating Only

Warmer climate 55/65ºC

EN

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PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2035-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	35.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	35.5	kW
T_j = + 7 ºC	***Pdh***	20.6	kW
T_j = + 12 ºC	***Pdh***	11.2	kW
T j = bivalent temperature	***Pdh***	35.5	kW
T j = operational limit	***Pdh***	35.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	147.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.78	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.81	---
T_j = + 7 ºC	COP_d	3.16	---
T_j = + 12 ºC	COP_d	5.12	---
T j = bivalent temperature	COP_d	1.81	---
T j = operational limit	COP_d	1.81	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2050-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	48.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	48.5	kW
T_j = + 7 ºC	***Pdh***	28.1	kW
T_j = + 12 ºC	***Pdh***	15.8	kW
T j = bivalent temperature	***Pdh***	48.5	kW
T j = operational limit	***Pdh***	48.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	147.9	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.79	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.84	---
T_j = + 7 ºC	COP_d	3.16	---
T_j = + 12 ºC	COP_d	5.18	---
T j = bivalent temperature	COP_d	1.84	---
T j = operational limit	COP_d	1.84	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/81.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

Contact information	Manufactured by KEYTER TECHNOLOGIES S.L. - P.I. Los Santos, C/ José Estrada Orellana, 2 - C.P.: 14900 - Lucena, Córdoba (SPAIN) - Phone: +34 957 51 07 52

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-2055-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	56.5	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	56.5	kW
T_j = + 7 ºC	***Pdh***	32.7	kW
T_j = + 12 ºC	***Pdh***	19.6	kW
T j = bivalent temperature	***Pdh***	56.5	kW
T j = operational limit	***Pdh***	56.5	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	152.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.89	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.82	---
T_j = + 7 ºC	COP_d	3.24	---
T_j = + 12 ºC	COP_d	5.42	---
T j = bivalent temperature	COP_d	1.82	---
T j = operational limit	COP_d	1.82	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.065	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.1	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	22000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5060-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	61.9	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	61.9	kW
T_j = + 7 ºC	***Pdh***	35.8	kW
T_j = + 12 ºC	***Pdh***	19.4	kW
T j = bivalent temperature	***Pdh***	61.9	kW
T j = operational limit	***Pdh***	61.9	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	142.7	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.66	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.73	---
T_j = + 7 ºC	COP_d	3.02	---
T_j = + 12 ºC	COP_d	5.02	---
T j = bivalent temperature	COP_d	1.73	---
T j = operational limit	COP_d	1.73	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.5	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-5070-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	71.2	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	71.2	kW
T_j = + 7 ºC	***Pdh***	41.2	kW
T_j = + 12 ºC	***Pdh***	22.4	kW
T j = bivalent temperature	***Pdh***	71.2	kW
T j = operational limit	***Pdh***	71.2	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	146.8	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.76	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.78	---
T_j = + 7 ºC	COP_d	3.14	---
T_j = + 12 ºC	COP_d	5.10	---
T j = bivalent temperature	COP_d	1.78	---
T j = operational limit	COP_d	1.78	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.6	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6100-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	97.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	97.0	kW
T_j = + 7 ºC	***Pdh***	56.1	kW
T_j = + 12 ºC	***Pdh***	31.6	kW
T j = bivalent temperature	***Pdh***	97.0	kW
T j = operational limit	***Pdh***	97.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	148.3	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.79	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.84	---
T_j = + 7 ºC	COP_d	3.17	---
T_j = + 12 ºC	COP_d	5.20	---
T j = bivalent temperature	COP_d	1.84	---
T j = operational limit	COP_d	1.84	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/83.8	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesign,h, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) For electrically driven heat pumps, the net seasonal coefficient of performance in active mode SCOPnet is equal to the estimated average seasonal performance factor SPF, parameter that is needed for the calculation of the amount of the renewable energy supplied by heat pumps.

PACÍFICA PRO AIR TO WATER HEAT PUMP

Information requirements in accordance with Regulation (EU) 2016/2281

Model	**KWEB-6120-QVS4D**
Refrigerant fluid	R290
Outdoor heat exchanger of the heat pump:	Air
Indoor heat exchanger of the heat pump:	Water
Aplication temperatures	55/65ºC
Equipped with an auxiliary heater:	No
Combined heater and heat pump:	No

Heating Mode

Declared parameters for average heating season

Element	Symbol	Value	Unit
Rated heat output (*)	$P_{rated,h}$	113.0	kW
Declared heating capacity for part load at an indoor temperature of 20 ºC and an outdoor temperature T j			
T_j = - 7 ºC	***Pdh***	N/A	kW
T_j = + 2 ºC	***Pdh***	113.0	kW
T_j = + 7 ºC	***Pdh***	65.4	kW
T_j = + 12 ºC	***Pdh***	39.2	kW
T j = bivalent temperature	***Pdh***	113.0	kW
T j = operational limit	***Pdh***	113.0	kW
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	***Pdh***	N/A	kW
Bivalent temperature	***Tbiv***	2	ºC
Degradation coefficient of heat pumps	***Cdh***	0.9	---

Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	152.6	%
Net seasonal coefficient of performance in active mode (**)	**SCOPnet**	3.90	---
Declared coefficient of performance or gas usage efficiency or auxiliary energy factor for part load at the given outdoor temperatures T j			
T_j = - 7 ºC	COP_d	N/A	---
T_j = + 2 ºC	COP_d	1.82	---
T_j = + 7 ºC	COP_d	3.25	---
T_j = + 12 ºC	COP_d	5.44	---
T j = bivalent temperature	COP_d	1.82	---
T j = operational limit	COP_d	1.82	---
Air-to-water heat pumps: T j = -15 ºC (if TOL < -20 ºC)	COP_d	N/A	---
Air-to-air heat pumps: operational limit temperature	***TOL***	-10	ºC
Water heating limit temperature	***WTOL***	65	ºC

Energy consumption in modes other than active mode

Off mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW
Standby mode	P_{SB}	0.024	kW
Crankcase heater mode	P_{CK}	0.130	kW

Backup heater

Rated heat output (*)	***Psup***	0.0	kW
Type of energy consumed	N/A		

Other elements

Capacity control	Variable		
Water flow rate capacity control	Fixed		
Sound power level (indoor/outdoor)	L_{WA}	0/85.9	dB
Nitrogen oxide emissions	NO_X	0	mg/kWh

Air-to-air heat pumps: declared outdoor air flow rate	---	44000	m^3/h
For water-to-air/brine-to-air heat pumps: nominal brine or water flow rate, outdoor heat exchanger	---	N/A	m^3/h

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