KEYTER

PACIFICA *Pro*



8-120 kW 9-132 kW

scroll inverter

EC heat recovery HT

Air-to-water heat pumps suitable for cold climates | water production up to 75°C

Available in reversible or cooling-only versions, designed for residential, commercial, and industrial applications.

Allows modular systems of up to 5 units (up to 600 kW in cooling and 660 kW in heating).

NATURAL R-290 PROPANE

Pro Series

Adaptation and Environment

- Reduced charge of natural R290 refrigerant, A3 class, environmentally friendly with low global warming potential (GWP = 3) and high thermodynamic performance.
- Robust and reliable design with integrated leak detection and ATEX extraction fan for maximum safety.
- With carefully designed insulation, the unit ensures proper protection and noise reduction, achieving ultra-quiet operation.
- Units equipped with intelligent control to ensure an optimal defrosting process.

Codification:

KWEB | | | I V S4D

Series | Size | Power

Operating mode
I - Reversible heat pump
R - Cooling only

Compressor Type
V - Compresor scroll inverter

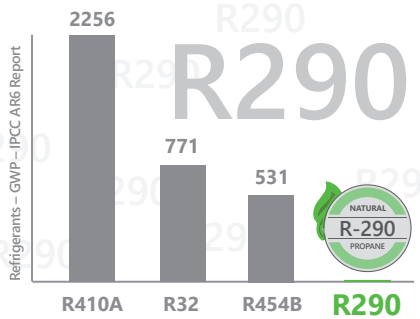
Hydraulic version
S - Standard unit / **P -** Version with hydraulic **kit**
H - Version with hydraulic kit and buffer tank
J - Version with hydraulic kit and high-capacity buffer tank

Power supply
4 - 400V/III/50Hz with neutral (standard)

Refrigerant
D - R290

Energy Efficiency

- Compact Full-Inverter units equipped with hermetic Scroll inverter compressor, electronic expansion valve, and EC fans, ensuring optimal seasonal performance (SEER/SCOP).
- Wide operating range with high efficiency and extended operating limits (full-load operation down to -20°C outdoor temperature).
- Partial heat recovery available, with the option to integrate the recirculation pump.



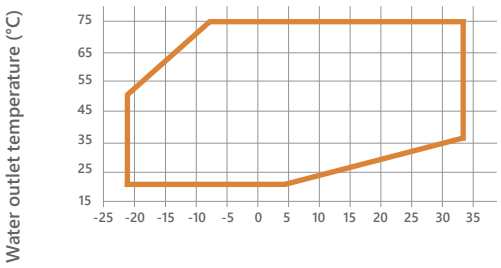
pacifica pro

decarbonization and modular systems

Decarbonization and sustainability

Wide operating range with high efficiency and extended operating limits (operation down to -20°C outdoor temperature at full load).

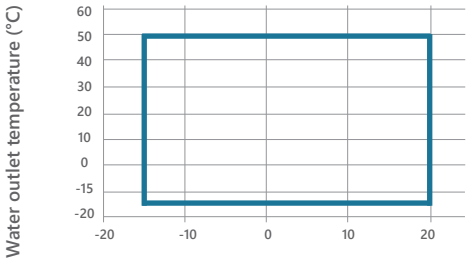
Heating Mode:



Outdoor air temperature (°C WB)

Orange zone: full load operation map of the unit.

Cooling Mode:

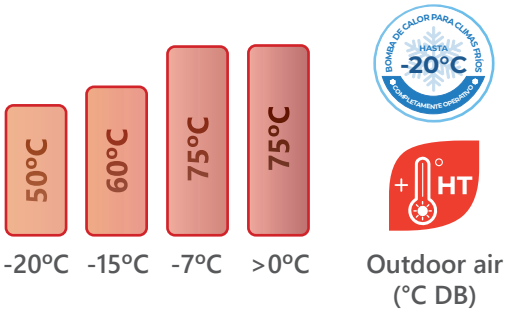


Outdoor air temperature (°C WB)

Zone bleue : Carte de fonctionnement de l'unité à pleine charge.

High-temperature water production all year round for boiler replacement and carbon footprint reduction.

PACIFICA *Pro*



- **Integrated Legionella prevention control.**
- **Dual setpoint management** – allows the management of two setpoints for heating and DHW through a digital input.
- **Domestic hot water management** – allows DHW scheduling and setpoint control, with the ability to manage a built-in 3-way valve to supply water either to the heating circuit or to the storage tank.

Modular systems for high-capacity applications

The PACIFICA PRO range allows the creation of modular systems with up to 5 units. It offers an effective and simple solution for large-scale installations requiring high-capacity equipment, reaching up to 600 kW.

up to 600 kW up to 660 kW



Modular assembly is carried out through a quick and easy interconnection. In addition, the system offers a significant redundant and continuous operation solution thanks to its modular architecture and the electrical independence of each module.



pacifica pro

energy efficiency, robust and safe design

Equipment with Inverter technology

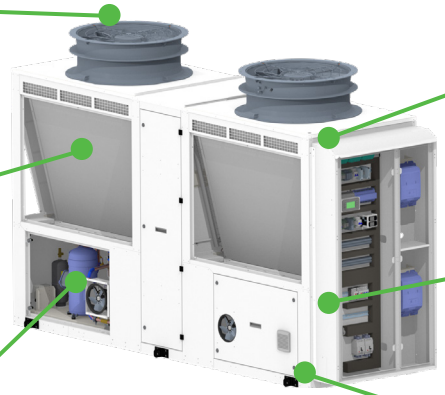
Compact Full-Inverter units equipped with hermetic scroll inverter compressors, high quality EC fans, and high-efficiency heat exchangers, ensuring very high seasonal performance **(average SEER 4.4 / SCOP35 4.7 / SCOP55 3.7)**.

Inverter

High-efficiency, low-noise EC outdoor fans with integrated curved nozzle

Cu-Al coils Polyurethane, Blygold, and Cu-Cu protections

Hermetic scroll compressors by Danfoss with variable frequency drive



SIEMENS programmable electronic control (AQUAMATIX) and CLIMATIX HMI terminal





Electronic expansion valve

Brazed plate heat exchanger made of AISI 316L stainless steel

Robust and safe design

With carefully designed insulation, the unit ensures proper protection and sound level reduction, achieving very quiet operation in the standard version.

Additionally, a super-silent mode can be achieved through the use of sandwich panels, reduced fan speed, and compressor frequency modulation, reaching a sound pressure level (Lp) below 45 dB(A) at 10 meters.

Enclosed compartment for refrigeration and hydraulic components with 10 mm polypropylene insulated panels in the standard version.

Easy access through removable panels.

Optional sandwich panels available with 20 mm thick rock wool insulation (M0 rating).



Electrical panel in a sealed compartment with forced ventilation as standard.

Units equipped with intelligent control that ensures an optimal defrosting process.

Night Mode with reduced fan and compressor speeds.

Integrated leak detection and ATEX extraction fan as standard for maximum safety.

ATEX

pacifica pro

range specification

General characteristics

		KWEB
Refrigerant	R290	✓
	Unit with refrigerant charge	✓
	Leak detector	✓
	ATEX axial refrigerant extraction fan	✓
	ATEX centrifugal refrigerant extraction fan	●
	Warning light in case of leak	✓
Bodywork	Self-supporting chassis/cabinet made of galvanized steel with oven-cured polyester powder coating	✓
	Custom color available to match installation requirements	●
	Enclosed compartment for refrigeration components with 10 mm polypropylene insulated panels	✓
	Perimeter enclosure with 10 mm polypropylene insulated panels	✓
	20 mm polypropylene insulation for refrigeration compartment and perimeter enclosure	●
	Perimeter enclosure with 20 mm rock wool sandwich panel	●
	Anti-vibration mounts available as accessories	●
Compressor	Scroll inverter technology	✓
	Compressor anti-vibration mounts	✓
	Acoustic insulation jacket	✓
Expansion valves	Electronic expansion valves	✓

Fans

Outdoor fans	EC axial fans with integrated curved nozzle	✓
	Condensing pressure control	✓
	High-performance EC axial fans	●
	EC plug fans (radial type)	●
	Curved external nozzles (available only with high-performance EC fans)	●

Heat exchangers

Coils	Coils with copper tubes and aluminium fins	✓
	Coil with copper tubes / polyurethane pre-coated aluminium fins	●
	BLYGOLD: copper tubes / aluminium fins with Blygold coating	●
	COPPERFIN: copper tubes / copper fins	●
Heat exchangers	Propane-to-water heat exchanger, AISI 316L stainless steel brazed plates with copper, thermally insulated	✓

Energy

Energy recovery	Partial condensation heat recovery for DHW	●
	Pump in condensation heat recovery circuit	●
	Electric anti-freeze heater in DHW recovery plate heat exchanger	●

✓ Included as standard ● Optional - Not applicable

pacifica pro

range specification

KEYTER

Hydraulic (*)

		KWEB
Pumps (P/H version)	Single pump – standard available pressure (7–12 m.w.c.)	✓
	Single pump – high available pressure (15–20 m.w.c.)	●
	Single pump – very high available pressure (25–30 m.w.c.)	●
	Single pump with variable speed drive	●
	Backup pump (standard, high, or very high available pressure)	●
	Electronic pump	●
	Electronic backup pump	●
Hydraulic components	Low-temperature kit for operation with water outlet temperature < 0 °C	●
	Low outdoor temperature kit	●
	Flexible inlet and outlet water connections	●
	Water filter	●
	Installation of pressure gauges at the inlet and outlet of the unit for version S	●
	Independent module with buffer tank available in 200 L / 375 L / 725 L + electric heaters	●

Installation

Protective grilles	Coil protection grille	●
Insulation	Thermal insulation on all cold metallic lines (refrigerant or water)	●
Power supply	400 V / 3-phase / 50 Hz with neutral	✓
	400 V / III ph / 60 Hz	●
	Other electrical voltages (contact us for available options)	●
Packaging	Packaging for maritime transport	●

Control

Electronic control and communication	AQUAMATIX programmable electronic controller	✓
	Climatix HMI user terminal for AQUAMATIX control	✓
	RS485 communication interface for Modbus protocol	✓
	Modbus TCP/IP and BACnet IP communication	✓
Additional control and safety components	Main switch in the electrical panel	✓
	Circuit breakers for compressors, fans, and pumps	✓
	Residual current devices (RCDs)	●
	Low-pressure switch for pump protection	●
	PREMIUM phase control relay with phase failure detection and rotation direction protection	✓
	EXCELLENT phase control relay with added phase imbalance, overvoltage, and undervoltage detection	●
	Triple protection for the plate heat exchanger: water flow switch, water and refrigerant antifreeze protections	✓
	Energy meter	●
Electrical panel	Refrigerant leak-insulated electrical panel	✓
	Fully wired electrical panel with IP54 protection	✓
	Forced ventilation of the electrical panel	✓
	Electrical components designed for high-temperature environments	✓
	Tropicalized electrical panel	●
	Socket outlet for general use	●
	Anti-freeze electric heater in electrical panel for low outdoor temperatures	●

Available in three versions depending on the hydraulic components included:

- **S Version** - Standard unit, without hydraulic module.
- **P Version** - Unit with hydraulic module, including hydraulic pump, without buffer tank.
- **H Version** - Unit with hydraulic module, including hydraulic pump and buffer tank.

Series PRO

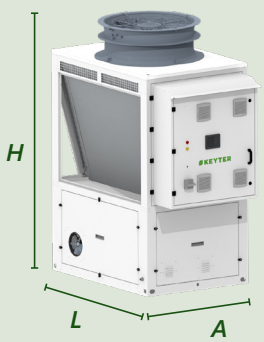
NATURAL R-290 PROPANE

pacifica pro

technical data

KWEB			2035			2050			2055			5060		
	Compressor Frequency	Hz	90	310	420	90	310	420	90	310	420	90	310	420
Cooling mode	Nominal cooling capacity (1)	kW	8,3	29,2	37,4	11,7	38,4	48,9	14,6	47,2	59,8	14,5	49,8	65,3
		TR	2,5	8,5	10,5	3,5	11	14	4	13,5	17	4	14	18,5
		kBTU/h	30	102	126	42	132	168	48	162	204	48	168	222
	Absorbed power (2)	kW	2,4	9,9	14,8	3,3	14,0	21,6	4,0	17,0	26,7	4,4	17,9	27,1
	EER (3)	kW/kW	3,46	2,94	2,53	3,54	2,75	2,26	3,70	2,77	2,24	3,30	2,79	2,41
		BTU/(h*W)	11,81	10,03	8,62	12,06	9,38	7,73	12,63	9,46	7,64	11,26	9,51	8,22
	SEER (4)	kWh/kWh		4,4			4,5			4,4			4,3	
	ηs,c (5)	%		174,7%			175,3%			173,7%			168,3%	
Heating mode 30/35	Nominal heating capacity (6)	kW	9,9	35,4	43,1	14,1	48,1	57,1	17,5	57,0	65,9	17,2	60,0	75,8
	Absorbed power (2)	kW	2,2	9,1	12,7	3,0	12,3	17,6	3,6	14,4	20,5	4,1	17,0	24,0
	COP (3)	kW/kW	4,45	3,87	3,39	4,67	3,90	3,24	4,92	3,97	3,21	4,15	3,53	3,16
		BTU/(h*W)	15,20	13,21	11,57	15,93	13,30	11,06	16,78	13,55	10,95	14,17	12,05	10,79
	SCOP: average (9) | warmer (12)	kWh/kWh		4,8 | 5,9			4,7 | 5,8			4,9 | 6,0			4,5 | 5,6	
	ηs,h: average (9)(5) | warmer (12)(5)	%		187,4% | 232,7			186.0% | 229.6%			193.4% | 235.9%			176.9% | 219.6%	
Heating mode 47/55	Nominal heating capacity (6)	kW	9,1	32,0	40,0	12,7	44,0	54,2	15,8	52,8	62,8	15,6	54,4	70,0
	Absorbed power (2)	kW	3,4	12,3	16,9	4,5	16,5	23,0	5,4	19,3	27,1	6,0	22,3	31,0
	COP (3)	kW/kW	2,66	2,61	2,37	2,84	2,67	2,36	2,94	2,74	2,32	2,60	2,44	2,25
		BTU/(h*W)	9,07	8,92	8,08	9,71	9,12	8,04	10,04	9,35	7,92	8,87	8,33	7,69
	SCOP: average (10) | warmer (13)	kWh/kWh		3.6 | 4.4			3.7 | 4.4			3.8 | 4.5			3.5 | 4.2	
	ηs,h: average (10)(5) | warmer (13)(5)	%		142.0% | 172.9%			143.6% | 172.9%			148.0% | 177.3%			136.3% | 165.9%	
Heating mode 55/65	Nominal heating capacity (6)	kW	-	31	-	-	42,3	-	-	51,1	-	-	52,2	-
	Absorbed power (2)	kW	-	14	-	-	19,2	-	-	22,5	-	-	25,7	-
	COP (3)	kW/kW	-	2,15	-	-	2,20	-	-	2,27	-	-	2,03	-
		BTU/(h*W)	-	7,33	-	-	7,52	-	-	7,75	-	-	6,93	-
	SCOP: average (11) | warmer (14)	kWh/kWh		3.1 | 3.8			3.2 | 3.8			3.3 | 3.9			3.0 | 3.6	
	ηs,h: average (11)(5) | warmer (14)(5)	%		122.2% | 147.6%			123.7% | 147.9%			127.4% | 152.3%			118.0% | 142.7%	
TECHNICAL SPECIFICATIONS														
Power supply			400 V / III / 50 Hz with neutral											
Refrigeration circuit	Refrigerant fluid / GWP	kg CO_2	R290/3											
	No. of circuits / compressors		1/1									2/2		
	No. of capacity stages			25-100%			25-100%			25-100%			12,5-100%	
Hydraulic circuit	Heating water flow rate (15)	m^3/h	1,7	6,1	7,5	2,4	8,3	9,9	3,0	9,9	11,4	3,0	10,4	13,1
	Cooling water flow rate	m^3/h	1,4	5,0	6,4	2,0	6,6	8,4	2,5	8,1	10,3	2,5	8,6	11,3
	Type of heat exchanger		brazed stainless steel plate heat exchanger											
	Hydraulic connection Ø	(inch)		1 1/2''			2''			2''			2''	
Outdoor fan	Outdoor air flow (summer)	m^3/h		22000			22000			22000			44000	
	Outdoor air flow (winter)	m^3/h		22000			22000			22000			44000	
	Number of fans			1			1			1			2	
	Ø and Type of fan	mm		800 EC-Z			800 EC-Z			800 EC-Z			800 EC-Z	
Unit sound pressure (Lp10) (16)		dB(A)	43	48	49	43	49	50	45	50	51	44	50	52
Weights	Empty weight (S version)	kg		672			699			713			1211	
	Total refrigerant charge	kg		6,2			6,5			6,8			8,3	

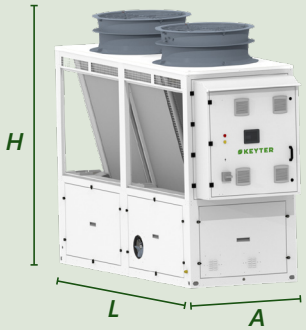
(1) Nominal cooling capacity for a water inlet/outlet temperature of 12/7 °C (53.6/44.6 °F) and an outdoor air temperature of 35 °C (95 °F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43×10^{-4} (m^2K/W).
(2) Nominal power input for compressors and outdoor fans.
(3) EER and COP calculated according to EN 14511:2022.
(4) Seasonal efficiencies calculated according to EN 14825:2022.
(5) ηs,c values in compliance with Ecodesign Regulation EU 2016/2281 for comfort applications. ηs,h values in compliance with Ecodesign Regulation EU 813/2013 for heat pump applications.
(6) Nominal heating capacity for a water inlet/outlet temperature of 30/35 °C (86/95 °F) and an outdoor air temperature of 7 °C (44.6 °F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43×10^{-4} (m^2K/W).
(7) Nominal heating capacity for a water inlet/outlet temperature of 47/55 °C (117/131 °F) and an outdoor air temperature of 7 °C (44.6 °F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43×10^{-4} (m^2K/W).



Series 2

Dimensions (mm)

Chassis	L	A	H
S/P	1875	1100	2375
H	2975	1100	2375



pacifica pro

technical data

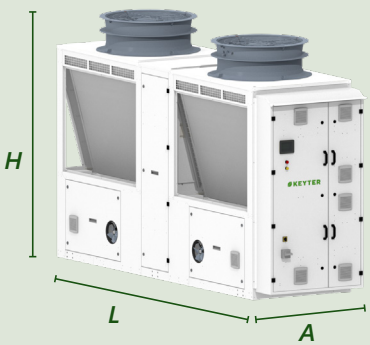
KWEB			5070			6100			6120		
	Compressor Frequency	Hz	90	310	420	90	310	420	90	310	420
Cooling mode	Nominal cooling capacity (1)	kW	16,6	58,1	74,2	23,3	76,8	97,8	29,3	94,4	119,5
		TR	4,5	16,5	21	6,5	22	28	8,5	27	34
		kBTU/h	54	198	252	78	264	336	102	324	408
	Absorbed power (2)	kW	4,9	20,4	30,3	6,6	27,9	43,1	7,9	34,0	53,3
	EER (3)	kW/kW	3,40	2,85	2,45	3,55	2,75	2,27	3,71	2,77	2,24
		BTU/(h*W)	11,61	9,72	8,37	12,10	9,39	7,73	12,66	9,47	7,65
	SEER (4)	kWh/kWh		4,4			4,5			4,4	
	ηs,c (5)	%		172,9%			176,6%			174,7%	
Heating mode 30/35	Nominal heating capacity (6)	kW	19,8	70,7	86,2	28,1	96,2	114,3	34,9	114,0	131,7
	Absorbed power (2)	kW	4,6	18,9	26,0	6,0	24,7	35,2	7,1	28,7	41,0
	COP (3)	kW/kW	4,33	3,75	3,31	4,69	3,90	3,24	4,93	3,97	3,21
		BTU/(h*W)	14,77	12,79	11,31	15,99	13,31	11,07	16,83	13,56	10,95
	SCOP: average (9) | warmer (12)	kWh/kWh		4.7 | 5.9			4.7 | 5.8			4.9 | 6.0	
	ηs,h: average (9)(5) | warmer (12)(5)	%		186.2% | 231.3%			186.6% | 230.5%			194.0% | 236.7%	
Heating mode 47/55	Nominal heating capacity (6)	kW	18,2	64,0	80,1	25,5	88,1	108,3	31,6	105,6	125,6
	Absorbed power (2)	kW	7,0	25,1	34,4	8,9	32,9	45,9	10,7	38,5	54,1
	COP (3)	kW/kW	2,61	2,55	2,33	2,85	2,67	2,36	2,95	2,74	2,32
		BTU/(h*W)	8,89	8,71	7,95	9,72	9,12	8,04	10,06	9,35	7,92
	SCOP: average (10) | warmer (13)	kWh/kWh		3.6 | 4.4			3.7 | 4.4			3.8 | 4.5	
	ηs,h: average (10)(5) | warmer (13)(5)	%		141.1% | 171.9%			143.9% | 173.4%			148.3% | 177.8%	
Heating mode 55/65	Nominal heating capacity (6)	kW	-	61,5	-	-	84,7	-	-	102,1	-
	Absorbed power (2)	kW	-	29,2	-	-	38,4	-	-	44,9	-
	COP (3)	kW/kW	-	2,10	-	-	2,21	-	-	2,27	-
		BTU/(h*W)	-	7,18	-	-	7,52	-	-	7,75	-
	SCOP: average (11) | warmer (14)	kWh/kWh		3.1 | 3.7			3.2 | 3.8			3.3 | 3.9	
	ηs,h: average (11)(5) | warmer (14)(5)	%		3.1 | 3.7			3.2 | 3.8			3.3 | 3.9	
TECHNICAL SPECIFICATIONS											
Power supply			400 V / III / 50 Hz with neutral								
Refrigeration circuit	Refrigerant fluid / GWP	kg CO_2	R290/3								
	No. of circuits / compressors		2/2								
	No. of capacity stages		12.5-100%			12.5-100%			12.5-100%		
Hydraulic circuit	Heating water flow rate (15)	m^3/h	3,4	12,3	14,9	4,9	16,7	19,8	6,1	19,8	22,8
	Cooling water flow rate	m^3/h	2,9	10,0	12,8	4,0	13,2	16,8	5,0	16,2	20,6
	Type of heat exchanger		brazed stainless steel plate heat exchanger								
	Hydraulic connection Ø	(inch)	2''			2 1/2''			2 1/2''		
Outdoor fan	Outdoor air flow (summer)	m^3/h	44000			44000			44000		
	Outdoor air flow (winter)	m^3/h	44000			44000			44000		
	Number of fans		2			2			2		
	Ø and Type of fan	mm	800 EC-Z			800 EC-Z			800 EC-Z		
Unit sound pressure (Lp10) (16)		dB(A)	46	52	54	44	51	52	46	53	54
Weights	Empty weight (S version)	kg	1211			1462			1488		
	Total refrigerant charge	kg	8,3			13,0			13,6		

(8) Nominal heating capacity for a water inlet/outlet temperature of 55/65 °C (131/149 °F) and an outdoor air temperature of 7 °C (44.6 °F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43×10^{-4} (m^2K/W).
(9) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (ηs,h) calculated for low-temperature applications in a medium climate.
(10) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (ηs,h) calculated for medium-temperature applications in a medium climate.
(11) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (ηs,h) calculated for high-temperature applications in a medium climate.
(12) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (ηs,h) calculated for low-temperature applications in a warm climate.
(13) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (ηs,h) calculated for medium-temperature applications in a warm climate.
(14) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (ηs,h) calculated for high-temperature applications in a warm climate.
(15) Flow rate calculated with a water inlet/outlet temperature of 30/35 °C (86/95 °F) and an outdoor air temperature of 7 °C (44.6 °F).
(16) Sound pressure level in dB(A) in free field, measured at 10 m distance from the source, directivity 1.

Series 5

Dimensions (mm)

Chassis	L	A	H
S/P	3260	1100	2375
H	4360	1100	2375



Series 6

Dimensions (mm)

Chassis	L	A	H
S/P	3920	1100	2375
H	5020	1100	2375