

KEYTER

Heat Pump

air to water



PACIFICA Pro



29-120 kW 32-132 kW



scroll inverter



75°C

Reversible or cooling-only heat pumps with heating capacities ranging from 32 kW to 132 kW, specifically designed for commercial, industrial, and centralized residential applications. Modular systems of up to 5 units are possible (up to 600 kW), with water temperatures reaching up to 75°C.

Optimized for the use of R-290 refrigerant and full-inverter technology, they stand out for their high energy efficiency and sustainability, expanding the range of PRO Series solutions developed by KEYTER.

keyter.com

PACIFICA Pro

Heat Pump

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Energy efficiency

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.

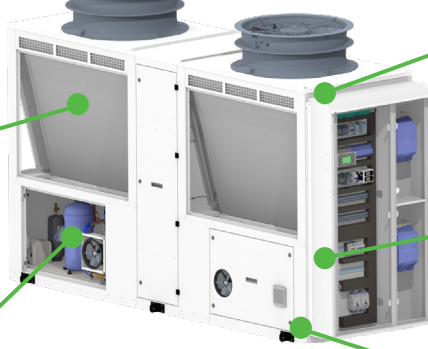
Hermetic scroll
compressors by Danfoss
with variable frequency
drive.

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.



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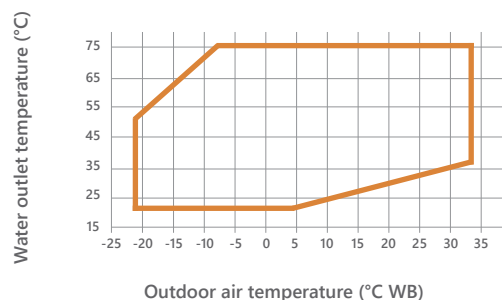
Heat Pump

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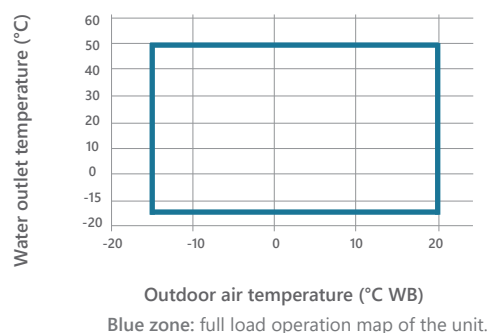
Decarbonization and sustainability

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

Heating Mode:

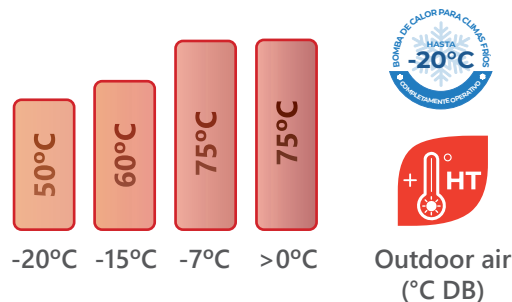


Cooling Mode:



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

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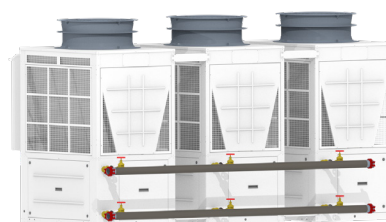
- Integrated Legionella prevention control.
- Dual setpoint management – allows the management of two setpoints for heating and DHW through a digital input.
- Domestic hot water management – allows DHW scheduling and setpoint control, with the ability to manage a built-in 3-way valve to supply water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



ECG
Euroconfort Grup

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KWEB			2035		2050		2055		5060	
Compressor speed (Hz)			fnom	fmax	fnom	fmax	fnom	fmax	fnom	fmax
Cooling mode	Nominal cooling capacity (1)	kW	29,2	37,4	38,4	48,9	47,2	59,8	49,8	65,3
		TR	8,5	10,5	11	14	13,5	17	14	18,5
		kBTU/h	102	126	132	168	162	204	168	222
	Absorbed power (2)	kW	9,9	14,8	14,0	21,6	17,0	26,7	17,9	27,1
		kW/kW	2,94	2,53	2,75	2,26	2,77	2,24	2,79	2,41
	EER (3)	BTU/(h*W)	10,03	8,62	9,38	7,73	9,46	7,64	9,51	8,22
	SEER (4)	kWh/kWh	4,4		4,5		4,4		4,3	
	η _{s,c} (5)	%	174,7%		175,3%		173,7%		168,3%	
Heating mode 30/35	Nominal heating capacity (6)	kW	35,4	43,1	48,1	57,1	57,0	65,9	60,0	75,8
		kW	9,1	12,7	12,3	17,6	14,4	20,5	17,0	24,0
	COP (3)	kW/kW	3,87	3,39	3,90	3,24	3,97	3,21	3,53	3,16
		BTU/(h*W)	13,21	11,57	13,30	11,06	13,55	10,95	12,05	10,79
	SCOP (9)	kWh/kWh	4,8		4,7		4,9		4,5	
	η _{s,h} (9) (5)	%	187,4%		186%		193,4%		176,9%	
Heating mode 47/55	Nominal heating capacity (6)	kW	32,0	40,0	44,0	54,2	54,4	70,0	54,4	70,0
		kW	12,3	16,9	16,5	23,0	22,3	31,0	22,3	31,0
	COP (3)	kW/kW	2,61	2,37	2,67	2,36	2,44	2,25	2,44	2,25
		BTU/(h*W)	8,92	8,08	9,12	8,04	8,33	7,69	8,33	7,69
	SCOP (9)	kWh/kWh	3,6		3,7		3,3		3,5	
	η _{s,h} (9) (5)	%	142,0%		143,6%		136,3%		136,3%	
Heating mode 55/65	Nominal heating capacity (6)	kW	31	-	42,3	-	51,1	-	52,2	-
		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 (9)	kWh/kWh	3,1		3,2		3,3		3,0	
	η _{s,h} (9) (5)	%	122,2%		123,7%		127,4%		118%	
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 (12)	m ³ /h	6,1	7,5	8,3	9,9	9,9	11,4	10,4	13,1
	Cooling water flow rate	m ³ /h	5,0	6,4	6,6	8,4	8,1	10,3	8,6	11,3
	Type of heat exchanger		brazed stainless steel plates							
	No. of heat exchangers		1		1		1		2'	
	Buffer tank capacity – H version	(L)	200		200		200		200	
	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	
Presión sonora equipo (Lp10) (9)			48	49	49	50	50	51	50	52
Weights (S version)	Empty weight	kg	640		666		639		1153	
	In-service weight	kg	646		672		706		1161	

(1) Nominal cooling capacity for water inlet/outlet temperatures of 12/7°C (53,6/44,6°F) and outdoor air temperature of 35°C (95°F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10⁻⁴ (m²·K/W).

(2) Nominal power input of compressors and outdoor fans.

(3) EER and COP calculated in accordance with EN 14511:2022.

(4) Seasonal efficiencies calculated according to EN 14825:2022.

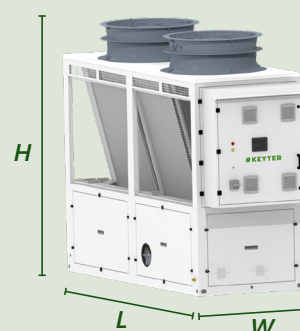
(5) η_{s,c} values in compliance with Ecodesign Regulation EU 2016/2281 for comfort applications. η_{s,h} values in accordance with Ecodesign Regulation EU 813/2013 for heat pump applications.

(6) Nominal heating capacity for water inlet/outlet temperatures of 30/35°C (86/95°F) and 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 (m²·K/W).



Series 2

Dimensions (mm)			
Chassis	L	W	H
S/P	1875	1100	2375
H	2975	1100	2375



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technical data



KWEB			5070		6100		6120	
Compressor speed (Hz)			f _{nom}	f _{max}	f _{nom}	f _{max}	f _{nom}	f _{max}
Cooling mode	Nominal cooling capacity (1)	kW	58,1	74,2	76,8	97,8	94,4	119,5
		TR	16,5	21	22	28	27	34
		kBTU/h	198	252	264	336	324	408
	Absorbed power (2)	kW	20,4	30,3	27,9	43,1	34,0	53,3
		kW/kW	2,85	2,45	2,75	2,27	2,77	2,24
	EER (3)	BTU/(h*W)	9,72	8,37	9,39	7,73	9,47	7,65
Heating mode 30/35	SEER (4)	kWh/kWh	4,4		4,5		4,4	
	η _{s,c} (5)	%	172,9%		176,6%		174,7%	
	Nominal heating capacity (6)	kW	70,7	86,2	96,2	114,3	114,0	131,7
		kW	18,9	26,0	24,7	35,2	28,7	41,0
		kW/kW	3,75	3,31	3,90	3,24	3,97	3,21
	COP (3)	BTU/(h*W)	12,79	11,31	13,31	11,07	13,56	10,95
Heating mode 47/55	SCOP (9)	kWh/kWh	3,6		3,7		3,8	
	η _{s,h} (9) (5)	%	141,1%		143,9%		148,3%	
	Nominal heating capacity (6)	kW	64,0	80,1	88,1	108,3	105,6	125,6
		kW	25,1	34,4	32,9	45,9	38,5	54,1
		kW/kW	2,55	2,33	2,67	2,36	2,74	2,32
	COP (3)	BTU/(h*W)	8,71	7,95	9,12	8,04	9,35	7,92
Heating mode 55/65	SCOP (9)	kWh/kWh	3,1		3,2		3,3	
	η _{s,h} (9) (5)	%	121,4%		124,0%		127,6%	

TECHNICAL SPECIFICATIONS

Power supply			400 V / III / 50 Hz with neutral					
Circuito Frigorífico	Refrigerant fluid / GWP	kg CO ₂	R290/3					
	No. of circuits / compressors		2/2		2/2		2/2	
	No. of capacity stages		12,5-100%		12,5-100%		12,5-100%	
Circuito Hidráulico	Heating water flow rate (12)	m ³ /h	12,3	14,9	16,7	19,8	19,8	22,8
	Cooling water flow rate	m ³ /h	10,0	12,8	13,2	16,8	16,2	20,6
	Type of heat exchanger		brazed stainless steel plates					
	No. of heat exchangers		2		2		2"	
	Buffer tank capacity – H version	(L)	200		375		375	
	Hydraulic connection Ø	(inch)	2"		2 1/2"		2 1/2"	
Ventilador exterior	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	
Presión sonora equipo (Lp10) (9)			52	54	51	52	53	54
Weights (S version)	Empty weight	kg	1153		1392		1417	
	In-service weight	kg	1161		1405		1431	

(7) Nominal heating capacity for water inlet/outlet temperatures of 47/55°C (116.6/131°F) and outdoor air temperature of 7°C (44.6°F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10E-4 (m²·K/W).

(8) Nominal heating capacity for water inlet/outlet temperatures of 55/65°C (131/149°F) and outdoor air temperature of 7°C (44.6°F). Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10E-4 (m²·K/W).

(9) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (η_{s,h}) calculated for low-temperature applications in a medium climate.

(10) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (η_{s,h}) calculated for medium-temperature applications in a medium climate.

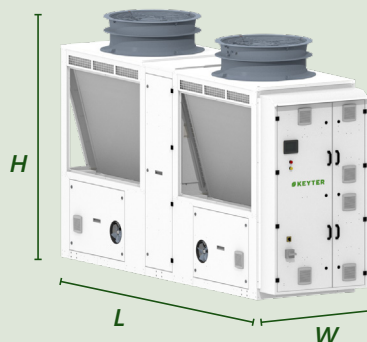
(11) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (η_{s,h}) calculated for high-temperature applications in a medium climate.

(12) Water flow rate calculated for water inlet/outlet temperatures of 30/35°C (86/95°F) and outdoor air temperature of 7°C (44.6°F).

(13) Sound pressure level, measured in dB(A) under free-field conditions, at 10 meters from the source with a directivity factor of 1.

Series 5

Dimensions (mm)			
Chassis	L	W	H
S/P	3260	1100	2375
H	4360	1100	2375



Series 6

Dimensions (mm)			
Chassis	L	W	H
S/P	3920	1100	2375
H	5020	1100	2375

KWEB



General characteristics

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 the refrigeration compartment and perimeter enclosure	●
	Perimeter enclosure with 20 mm rock wool sandwich panel	●
Compressor	Anti-vibration mounts available as accessories	●
	Scroll inverter technology	✓
	Compressor anti-vibration mounts	✓
Expansion valves	Acoustic insulation jacket	✓
	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)	●
	AxiTop diffusers for axial fans (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	✓

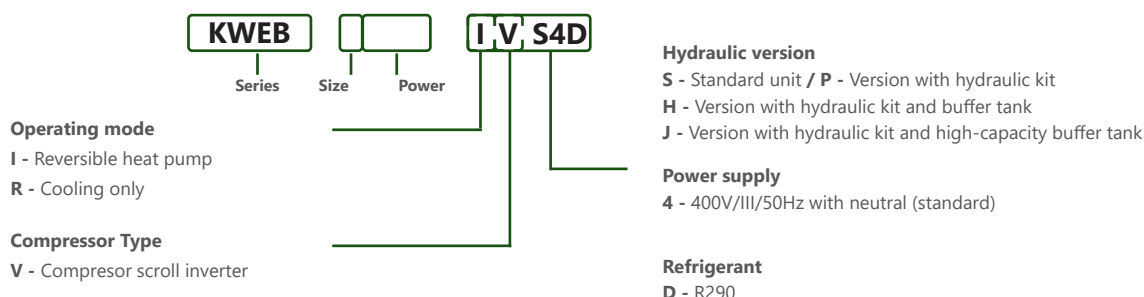


Energy

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

Codification:



PACIFICA Pro

range specification

KWEB



Hydraulic (*)

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.

Refrigerant of the present and the future advancing towards Decarbonization



ziran pro

KWR

❄️ 33-194 kW 41-253 kW 🔥



semi-hermetic
inverter

Air-to-water chillers and heat
pumps for cold climate

Cascade Systems x5



medea pro

KZVB

❄️ 4-22 kW 5-26 kW 🔥



scroll inverter

Water-water heat pumps
production up to 77°C

Cascade Systems x5



nesea pro

KWFA

❄️ 2-16 kW 4-23 kW 🔥



scroll inverter

Air-water heat pumps for cold
climate high temperature up to
75°C

Cascade Systems x5



LEADERS IN TECHNOLOGY OF
HEAT PUMP

