

# 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](https://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.



# PACIFICA Pro

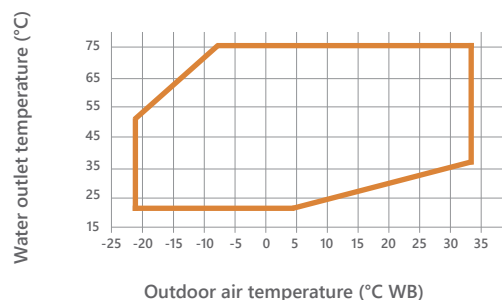
## Heat Pump

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### Decarbonization and sustainability

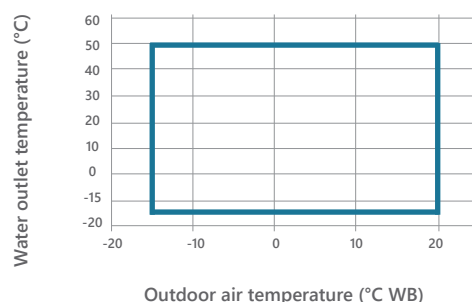
Wide operating range with high efficiency and extended operating limits (operation down to -20°C outdoor temperature at full load).

#### Heating Mode:



Orange zone: full load operation map of the unit.

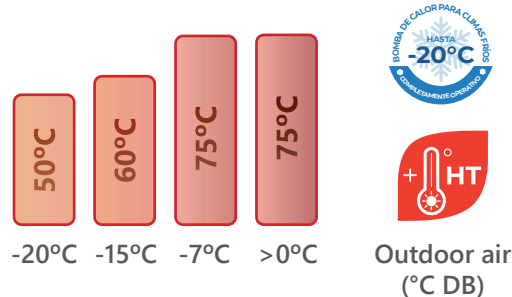
#### Cooling Mode:



Blue zone: full load operation map of the unit.

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

#### PACIFICA Pro



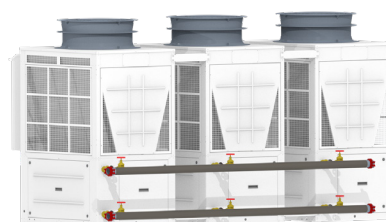
- Integrated Legionella prevention control.
- Dual setpoint management – allows the management of two setpoints for heating and DHW through a digital input.
- Domestic hot water management – allows DHW scheduling and setpoint control, with the ability to manage a built-in 3-way valve to supply water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



| 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  |    |
|                                  | Absorbed power (2)               | kBTU/h    | 102                              | 126    | 132      | 168    | 162      | 204    | 168       | 222   |    |
|                                  |                                  | kW        | 9,9                              | 14,8   | 14,0     | 21,6   | 17,0     | 26,7   | 17,9      | 27,1  |    |
|                                  | EER (3)                          | kW/kW     | 2,94                             | 2,53   | 2,75     | 2,26   | 2,77     | 2,24   | 2,79      | 2,41  |    |
|                                  |                                  | 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       |       |    |
| ηs,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  |    |
|                                  | Absorbed power (2)               | 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       |       |    |
| ηs,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  |    |
|                                  | Absorbed power (2)               | 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       |       |    |
| ηs,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      | -     |    |
|                                  | 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 (9)                         | kWh/kWh   | 3,1                              |        | 3,2      |        | 3,3      |        | 3,0       |       |    |
| ηs,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 CO2    | 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)     | m³/h      | 6,1                              | 7,5    | 8,3      | 9,9    | 9,9      | 11,4   | 10,4      | 13,1  |    |
|                                  | Cooling water flow rate          | m³/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)        | m³/h      | 22000                            |        | 22000    |        | 22000    |        | 44000     |       |    |
|                                  | Outdoor air flow (winter)        | m³/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) |                                  |           | dB(A)                            | 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<sup>-4</sup> (m<sup>2</sup>·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.

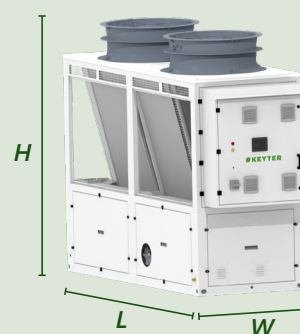
(5) η<sub>s,c</sub> values in compliance with Ecodesign Regulation EU 2016/2281 for comfort applications. η<sub>s,h</sub> values in accordance with Ecodesign Regulation EU 813/2013 for heat pump applications.

(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<sup>-4</sup> (m<sup>2</sup>·K/W).



## Series 2

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



# PACIFICA Pro

## technical data



| KWEB                             |                                  |                    | 5070                             |        | 6100      |        | 6120      |       |    |
|----------------------------------|----------------------------------|--------------------|----------------------------------|--------|-----------|--------|-----------|-------|----|
| Compressor speed (Hz)            |                                  |                    | fnom                             | fmax   | fnom      | fmax   | fnom      | fmax  |    |
| 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    |    |
|                                  | Absorbed power (2)               | kBTU/h             | 198                              | 252    | 264       | 336    | 324       | 408   |    |
|                                  |                                  | kW                 | 20,4                             | 30,3   | 27,9      | 43,1   | 34,0      | 53,3  |    |
|                                  | EER (3)                          | kW/kW              | 2,85                             | 2,45   | 2,75      | 2,27   | 2,77      | 2,24  |    |
|                                  |                                  | BTU/(h*W)          | 9,72                             | 8,37   | 9,39      | 7,73   | 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<br>30/35            | Nominal heating capacity (6)     | kW                 | 70,7                             | 86,2   | 96,2      | 114,3  | 114,0     | 131,7 |    |
|                                  | Absorbed power (2)               | 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 |    |
|                                  | SCOP (9)                         | kWh/kWh            |                                  |        |           |        |           |       |    |
|                                  | ηs,h (9) (5)                     | %                  | 186,2%                           |        | 186,6%    |        | 194,0%    |       |    |
| Heating mode<br>47/55            | Nominal heating capacity (6)     | kW                 | 64,0                             | 80,1   | 88,1      | 108,3  | 105,6     | 125,6 |    |
|                                  | Absorbed power (2)               | 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  |    |
|                                  | SCOP (9)                         | kWh/kWh            | 3,6                              |        | 3,7       |        | 3,8       |       |    |
|                                  | ηs,h (9) (5)                     | %                  | 141,1%                           |        | 143,9%    |        | 148,3%    |       |    |
| Heating mode<br>55/65            | Nominal heating capacity (6)     | kW                 | 61,5                             | -      | 84,7      | -      | 102,1     | -     |    |
|                                  | Absorbed power (2)               | kW                 | 29,2                             | -      | 38,4      | -      | 44,9      | -     |    |
|                                  |                                  | kW/kW              | 2,10                             | -      | 2,21      | -      | 2,27      | -     |    |
|                                  | COP (3)                          | BTU/(h*W)          | 7,18                             | -      | 7,52      | -      | 7,75      | -     |    |
|                                  | SCOP (9)                         | kWh/kWh            | 3,1                              |        | 3,2       |        | 3,3       |       |    |
|                                  | ηs,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 <sub>2</sub> | 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)     | m³/h               | 12,3                             | 14,9   | 16,7      | 19,8   | 19,8      | 22,8  |    |
|                                  | Cooling water flow rate          | m³/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)        | m³/h               | 44000                            |        | 44000     |        | 44000     |       |    |
|                                  | Outdoor air flow (winter)        | m³/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) |                                  |                    | dB(A)                            | 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 (m<sup>2</sup>·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 (m<sup>2</sup>·K/W).

(9) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (η<sub>s,h</sub>) calculated for low-temperature applications in a medium climate.

(10) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (η<sub>s,h</sub>) calculated for medium-temperature applications in a medium climate.

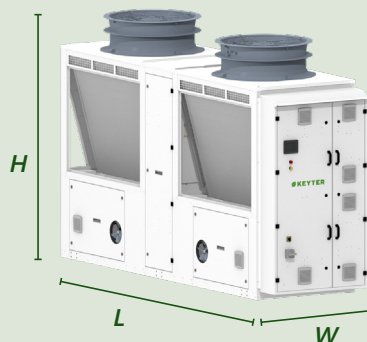
(11) Seasonal Coefficient of Performance (SCOP) and seasonal space heating energy efficiency (η<sub>s,h</sub>) calculated for high-temperature applications in a medium climate.

(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 |

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## 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 | ✓ |

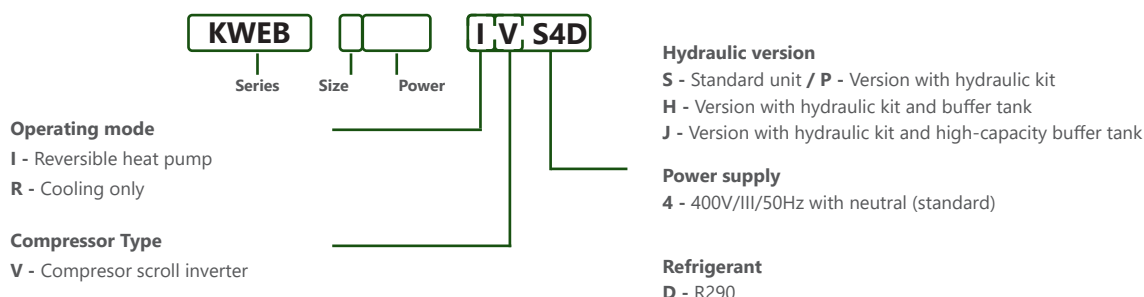


## Energy

|                 |                                                                  |   |
|-----------------|------------------------------------------------------------------|---|
| 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

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### 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.

**PRO**  
*Series*



### 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**

