

PACIFICA

CHILLERS AND HEAT PUMPS
air-to-water



29 - 329 kW
33 - 387 kW



Adaptation and Versatility

- Versions with hydraulic kit and built-in buffer tank to reduce the frequency of compressor stops and starts
- Condensing pressure control as standard for all year operation
- Adaptability to the facility offering a wide range of models
- Maximum accessibility and easy maintenance via removable panels
- **PACIFICA MAXIMA** versions with R-134a refrigerant to deliver water at high temperatures up to +65°C

Low noise level

- Compressors in a closed compartment, isolated from the airflow (except series 2 to 5) available with an acoustic jacket
- Low speed condensation axial fans and oversized outdoor coils resulting in improved efficiency and a very low noise level
- EC axial fans with AxiTop diffusers for a very low noise level

Easy control

- **CAREL** supervision and electronic control with high performance and easy operation
- Wide variety of communication protocols (Modbus, BACnet and LonWorks)

Energy efficiency

- High partial and full load efficiency, reducing operating costs
- Compliance with **ErP 2018** and **ErP 2021**
- **NEW** inverter compressors in the **PACIFICA INVERTER** range for maximum energy efficiency
- Electronic fans and electronic expansion valves for minimal energy consumption
- **NEW** hot gas partial and full heat reclaim system for **sanitary hot water**
- **MULTIPIPE** units available for simultaneous delivery of cooling and heating
- Water Free-cooling system for free-cooling

Environment

- Optimised design for reduced refrigerant charge R-410A (ODP 0, GWP 2088)
- **NEW** availability of units with R-452B refrigerant (ODP 0, GWP 676)

Applications



versions

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20-189 kW/20-184 kW

Chillers equipped with multiscroll technology.

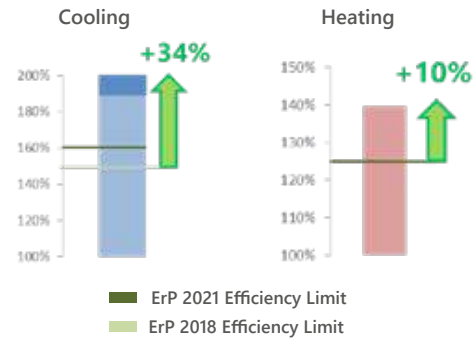


- Seasonal energy efficiency ratio for cooling (SEER) $\eta_{s,c}$ 2018 $\geq 149\%$



- Seasonal energy efficiency ratio for cooling (SEER) $\eta_{s,c}$ 2021 $\geq 161\%$

Seasonal energy efficiency



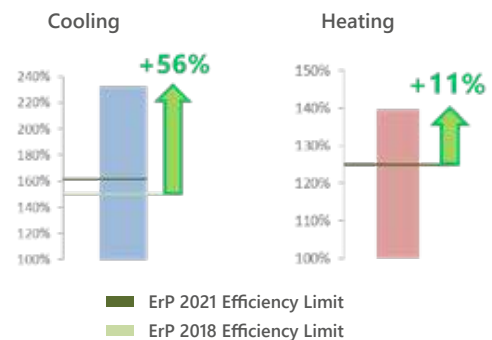
PACIFICA INVERTER

39-170 kW/42-180 kW

Chillers equipped with INVERTER technology, an electronic expansion valve and variable-speed electronic fans to comply with the ErP 2021 regulation and guarantee maximum energy savings.



Seasonal energy efficiency



Hydraulic versions:

Keyter WE - Standard version (S)

Equipment with no hydraulic kit.

The WE units include as standard triple protection of plates heat exchanger, with flow switch, water anti-freeze protection and refrigerant anti-freeze protection.

Keyter WE - Version with hydraulic kit (P)

Hydraulic kit composed of a circulation pump suitable for water or glycol water to 0°C, expansion vessel, purge and closing valves, pressure gauges and a flow switch.

Low temperature kit is required for water temperatures below 0°C, the, which requires replacement of the pump and adds electrical heater on hydraulic elements to operate with water temperature up to -10°C.

Keyter WE - version with hydraulic kit and buffer tank (H)

Equipment designed with a hydraulic kit in addition to a buffer tank with an anti-freeze electrical heater to reduce compressors short cycling.

The hydraulic kit is built into the chassis of the unit for all models except the series 6, where the hydraulic kit is in a separate module but is delivered with the unit.

Optionally, a module independent to the unit may be delivered, with a 375 or 725 litre capacity buffer tank and anti-freeze electrical heater.

For water temperatures below 0°C, it is necessary to request the low-temperature kit for the hydraulic kit.

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range specification

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INVERTER

General characteristics

Refrigerant	R410A		✓	✓
	Full charge of refrigerant		✓	✓
	Leak detection		•	•
	Self-supporting chassis of galvanized steel with oven cured polyester paint treatment		✓	✓
Casing	Self-supporting chassis of stainless steel with oven cured polyester paint treatment		•	•
	Customisable colour to meet the needs of the facility		•	•
	Lower compartment closed with a sheet for compressors and cooling components	KWE - 5 to 9	✓	✓
	Insulation in the lower cooling compartment		•	•
	Anti-vibration supports		•	•
	Tandem multiscroll technology		✓	-
	Scroll Compressors, Single version	KWE-2030 to 2045	•	-
Compressors	Inverter technology		•	✓
	Compressor anti-vibration mounts		✓	✓
	Soft starter		•	•
	Acoustic jacket		•	•
	Original manufacturer high-performance acoustic jacket		•	•
	Suction accumulator and liquid receiver	version I	✓	✓
		version R	•	•
Expansion valves	Thermostatic expansion valves		✓	-
	Electronic expansion valves		•	✓



Fans

Outdoor fans	Axial fans with AC technology		✓	-
	Axial fans with EC technology		•	✓
	AxiTop diffusers for axial fans		•	•
	Fan nozzles painted inside		•	•
	Fans with epoxy paint		•	•
	Enhanced fans		•	•
	Radial EC plug fans		•	•
	Centrifugal fans		•	-



Heat exchangers

Coils	Coils with copper tubes and aluminium fins, with L or U geometry		✓	✓
	BLUECOAST: Copper tubes/Aluminium fins pre-lacquered with polyurethane (hydrophilic)		•	•
	ALUCAST: Copper tubes/Aluminium fins, high strength (hydrophilic)		•	•
	GREYCOAST: Copper tubes/Aluminium fins pre-lacquered with polymer (hydrophobic)		•	•
	BLYGOLD: Copper tubes/Aluminium fins with Blygold coating		•	•
	COPPERFIN: Copper tubes/Copper fins		•	•
Heat exchangers	Freon-to-water heat exchanger, AISI 316L stainless steel plates, welded with copper and heat insulated.		✓	✓
	Stainless steel exchanger of SS AISI 304/SS AISI 316 SMO254 or Titanium		•	•
	Shell and tube heat exchanger	KWE - 3, 4 and 6	•	•
	Antifreeze electrical heater in the plate heat exchanger for protection at low outdoor temp.		•	•



Energy

Energy reclaim	Partial or full condensation energy reclaim for sanitary hot water		•	•
	Pump in the condensation heat reclaim circuit		•	•
	Antifreeze electrical heater in reclaim plate heat exchanger for sanitary hot water		•	•
Free-cooling	Built-in free-cooling via an additional outdoor coil, outdoor sensor and three-way valve		•	•

Codification:

KWE **NS4W**

Series Size Power
I - Reversible heat pump
R - Cooling only

N - Standard scroll compressor / E - High efficiency DSH compressor
S - Standard / P - Hydraulic kit / H - Hydraulic kit with buffer tank
4 - 400 V/III/50 Hz
W - Refrigerant R410A / B - R452B / Y - R134a


Hydraulic

Pumps (WE-version P/H)	Normal available pressure single pump (7-12 mH2O)	✓	✓
	High available pressure single pump (15-20 mH2O)	•	•
	Very high available pressure single pump (25-30 mH2O)	•	•
	Pump with variable speed drive	•	•
	Back-up pump (standard, high and very high pressure available)	•	•
	Electronic pump	•	•
	Dual pump	•	•
	Electronic back-up pump	•	•
Hydraulic elements	Low-temperature kit for operation with water at temp. < 5°C	•	•
	Flexible connections for hydraulic inlet and outlet	•	•
	Water filter	•	•

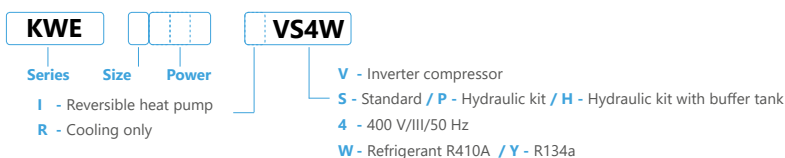

Installation

Condensate pan	Condensate drain pan in outdoor unit	✓	✓
	Electrical heater in the outdoor condensate drain pan for low outdoor temperatures	•	•
Outdoor coil	Coil protection grille	•	•
Insulation	Thermal insulation in all cold metal lines (refrigerant or water)	•	•
	400 V/III ph/50 Hz (with/without neutral, depending on model)	✓	✓
Power supply	220 V/III ph/60 Hz; 380 V/III ph/60 Hz; 400 V/III ph/60 Hz; 460 V / III ph / 60 Hz	•	•
	Other electrical voltages (consult)	•	•
Packaging	Packaging for maritime transportation	•	•


Control

Electronic control and communication	Aquamicro configurable electronic control	KWE-2 to 4	✓	-
	MicroAD user terminal for Aquamicro control		•	-
	Programmable electronic Aquamanager control	KWE-2 to 4	•	✓
	pLDPRO user terminal for Aquamanager control (max. standard distance terminal-board: 50 m)	KWE -5 to 9	✓	✓
		KWE-2 to 4	•	✓
	pGD1 user and maintenance terminal for Aquamanager control (max. standard distance terminal-board: 50 m)	KWE-5 and 6	✓	✓
		KWE-2 to 6	•	•
	KWE-7 to 9	✓	✓	
	TCONN cards (for distances between terminal and board longer than 50 m) (see technical manual)		•	•
	Condensation and evaporation pressure control with transducers		✓	✓
Management up to two pumps in the evaporator		✓	✓	
Defrosting	Master-slave management		•	•
	Electronic expansion valve management		•	•
	RS485 card for Modbus communication		•	•
	Plant Visor/Plant Watch PRO/TERA supervision		•	•
	BACNET/LONWORKS communication		•	•
	Defrosting via cycle inversion via a 4-way valve		✓	✓
	General switch on electrical cabinet		✓	✓
Additional control and safety elements	Thermal-magnetic protection for compressors, fans and pumps		✓	✓
	Triple protection of the plate heat exchanger with water flow switch and water anti-freeze protection and freon		✓	✓
	PREMIUM phase control relay, with phase failure detection and rotation direction protection		✓	✓
	EXCELLENT phase control relay, adds phase imbalance, overvoltage and undervoltage detection		•	•
	Differential switches		•	•
Electrical cabinet	Energy meter		•	•
	Fully-wired electrical cabinet, with IP54 protection		✓	✓
	Forced ventilation of the electrical cabinet	KWE-1 to 6	•	•
		KWE-7 to 9	✓	✓
	Design of electrical switchgear for high temperatures		✓	✓
	Tropicalised electrical cabinet		•	•
Antifreeze electrical heater in electrical cabinet for low outdoor temperatures		•	•	

✓ Included as standard • Option - Not applicable

Codification:


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technical data



28 - 43 kW

KWE models		2030	2035	2039	2045	2030	2035	2039	2045		
Cooling only version (R)											
Cooling	Cooling capacity (1)	kW	28.7	32.7	37.7	42.9	28.7	32.7	37.7	42.9	
		TR	8.5	9.5	11	12.5	8.5	9.5	11	12.5	
		kBTU/hr	97.9	111.6	128.6	146.4	97.9	111.6	128.6	146.4	
	Power input (2)	kW	9.1	10.8	12.1	13.3	9.1	10.8	12.1	13.3	
	EER (3)	W/W	3.1	3.0	3.1	3.2	3.1	3.0	3.1	3.2	
		BTU/(Wxhr)	10.7	10.3	10.6	11.0	10.7	10.3	10.6	11.0	
	ESEER (3)		4.2	4.1	4.1	4.2	4.2	4.1	4.1	4.2	
	SEER (4)		4.0	4.0	4.0	4.1	4.6	4.7	4.3	4.5	
	η _{s,c} (5)		154%	153%	152%	158%	175%	179%	163%	172%	
	SEPR (7°C) (6)		5.0	5.0	5.0	5.2	5.5	5.6	5.3	5.5	
	SEPR (-8°C) (6)		3.1	3.1	3.1	3.2	3.6	3.7	3.3	3.6	
	IPLV (7)	kW/TR	0.72	0.72	0.74	0.72	0.66	0.65	0.73	0.68	
	BTU/(Wxhr)	16.5	16.5	16.0	16.5	17.7	18.0	16.4	17.3		
Heat pump version (I)											
Cooling mode	Cooling capacity (1)	kW	27.8	31.7	36.5	41.6	27.8	31.7	36.5	41.6	
	Power input (2)	kW	9.3	11.0	12.3	13.5	9.3	11.0	12.3	13.5	
	EER (3)	W/W	3.0	2.9	3.0	3.1	3.0	2.9	3.0	3.1	
	ESEER (3)		4.2	4.1	4.1	4.1	4.2	4.1	4.1	4.1	
	SEER (4)		3.9	3.8	3.9	4.0	4.4	4.5	4.1	4.3	
	η _{s,c} (5)		147%	146%	146%	151%	168%	172%	157%	166%	
	SEPR (7°C) (6)		4.9	4.8	4.9	5.0	5.4	5.4	5.1	5.3	
	SEPR (-8°C) (6)		2.9	2.9	2.9	3.1	3.4	3.5	3.2	3.4	
	IPLV (7)	kW/TR	0.75	0.76	0.78	0.76	0.69	0.67	0.75	0.71	
		BTU/(Wxhr)	15.8	15.7	15.4	15.8	17.0	17.2	15.8	16.6	
	Heating mode	Heating capacity (8)	kW	33.2	38.3	42.1	47.8	33.2	38.3	42.1	47.8
		Power input (2)	kW	9.0	10.7	12.0	13.1	9.0	10.7	12.0	13.1
COP (3)		W/W	3.7	3.6	3.5	3.6	3.7	3.6	3.5	3.6	
SCOP warmer climate (4)			3.9	3.8	3.7	3.8	4.4	4.3	4.1	3.9	
η _{s,h} warmer climate (5)			148%	145%	140%	145%	166%	165%	157%	149%	
	η _{s,h} average climate with EC fan (5)		123%	120%	124%	128%	136%	136%	131%		
Technical characteristics											
Power supply		400 V/III/50 HZ with neutral									
Refrigerant fluid/GWP	Kg CO ₂	R410A/2088									
Refrigerant circuit	Type of compressor	Hermetic scroll, single version (option)				Hermetic tandem scroll (standard)					
	No. circuits/compressors	1/1	1/1	1/1	1/1	1/2	1/2	1/2	1/2		
	No. power stages	1	1	1	1	2	2	2	2		
Water flow	m ³ /h	4.9	5.6	6.5	7.4	4.9	5.6	6.5	7.4		
Hydraulic circuit	Type of heat exchanger	Stainless steel brazed plates									
	Hydraulic connections	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"		
	Buffer tank capacity -vers. H	150 litres									
Outdoor airflow	m ³ /h	14000	14000	19500	19500	14000	14000	19500	19500		
Outdoor fan	No. x Type of fan	1 x Axial 800 AC									
	Fan speed	rpm	660/480	660/480	900/700	900/700	660/480	660/480	900/700	900/700	
Noise Level	Equipment sound pressure (Lp10) (9)	dB(A)	44.4	45.7	46.9	48.4	44.4	45.7	46.9	48.4	
Weights	Empty weight	kg	343	345	360	415	343	345	360	415	
	In-service weight	kg	356	358.5	374	431	356	358.5	374	431	

(1) Nominal cooling capacity for a water inlet/outlet temp. 12/7°C and outdoor air temp. 35°C.

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

(3) EER, COP and ESEER calculated based on standard EN 14511-2013.

(4) Seasonal Energy Efficiency Ratio (SEER) for cooling factor and seasonal coefficient of performance for heating (SCOP), calculated based on standard EN 14825:2013.

(5) Seasonal Energy Efficiency Ratio for cooling (η_{s,c}) and heating (η_{s,h}) of spaces, in line with Ecodesign Regulation EU 2016/2281.

Series 2 - S/P



Series 2-H



PACIFICA

technical data



50 - 81 kW

KWE models		2052	2060	2070	3052	3060	3070	4078	4090		
Cooling only version (R)											
Cooling	Cooling capacity (1)	kW	50.4	55.7	64.6	51.5	57.1	64.3	74.9	81.1	
		TR	14.5	16	18.5	15	16.5	18.5	21.5	23.5	
		kBTU/hr	172.1	190.2	220.5	175.7	194.8	219.3	255.5	276.7	
	Power input (2)	kW	14.6	17.7	21.6	14.5	17.5	21.1	23.1	27.4	
		EER (3)	3.4	3.2	3.0	3.6	3.3	3.0	3.2	3.0	
	Cooling mode	ESEER (3)	BTU/(Wxhr)	11.8	10.8	10.2	12.1	11.1	10.4	11.1	10.1
			4.7	4.3	4.3	4.8	4.8	4.8	4.9	4.5	
		SEER (4)	4.8	4.5	4.4	4.9	5.0	4.9	5.1	4.8	
		ηs,c (5)	185%	172%	169%	190%	192%	189%	196%	182%	
		SEPR (7°C) (6)	5.8	5.5	5.5	5.9	6.0	5.9	6.1	5.8	
		SEPR (-8°C) (6)	3.9	3.6	3.5	4.0	4.1	4.0	4.2	3.9	
		IPLV (7)	kW/TR	0.64	0.69	0.69	0.62	0.63	0.63	0.62	0.66
	BTU/(Wxhr)	18.6	17.2	17.1	19.0	18.6	18.2	18.7	17.4		
Heat pump version (I)											
Cooling mode	Cooling capacity (1)	kW	48.9	54.0	62.5	49.9	55.4	62.2	72.5	78.6	
		Power input (2)	14.9	18.0	22.0	14.8	17.8	21.6	23.5	27.9	
	EER (3)	W/W	3.3	3.0	2.8	3.4	3.1	2.9	3.1	2.8	
		ESEER (3)	4.6	4.3	4.3	4.7	4.8	4.7	4.9	4.5	
	SEER (4)	4.6	4.3	4.2	4.7	4.8	4.7	4.9	4.6		
	ηs,c (5)	177%	165%	162%	182%	185%	181%	188%	174%		
	SEPR (7°C) (6)	5.6	5.3	5.3	5.7	5.8	5.8	5.9	5.6		
	SEPR (-8°C) (6)	3.7	3.4	3.4	3.8	3.9	3.8	4.0	3.7		
	IPLV (7)	kW/TR	0.66	0.71	0.72	0.65	0.65	0.66	0.65	0.69	
		BTU/(Wxhr)	17.8	16.5	16.3	18.3	17.8	17.5	18.0	16.7	
	Heating mode	Heating capacity (8)	kW	55.6	65.5	73.1	55.7	66.4	74.3	83.7	92.0
		Power input (2)	kW	15.6	17.2	21.0	15.6	17.2	20.8	22.8	27.0
COP (3)		W/W	3.6	3.8	3.5	3.6	3.9	3.6	3.7	3.4	
SCOP warmer climate (4)		4.7	4.9	4.6	4.7	5.0	4.7	4.8	4.4		
ηs,h warmer climate (5)		180%	189%	177%	180%	190%	181%	183%	168%		
ηs,h average climate with EC fan (5)	145%	155%	141%	146%	157%	145%	149%	136%			
Technical characteristics											
Power supply		400 V/III/50 HZ with neutral									
Refrigerant circuit	Refrigerant fluid/GWP	Kg CO ₂	R410A/2088								
	Type of compressor		Hermetic tandem scroll								
	No. circuits/compressors		1/2	1/2	1/2	1/2	1/2	1/2	1/2		
	No. power stages		2	2	2	2	2	2	2		
Hydraulic circuit	Water flow	m ³ /h	8.7	9.6	11.1	8.9	9.8	11.1	12.9	14.0	
	Type of heat exchanger		Stainless steel brazed plates			Stainless steel brazed plates (standard)/Shell and tube (optional)					
	Hydraulic connections		2"	2"	2"	2"	2"	2"	2"		
	Buffer tank capacity -vers. H	litres	150			225		225			
Outdoor fan	Outdoor airflow	m ³ /h	19500	19500	19500	19500	19500	19500	19500		
	No. x Type of fan		1 x Axial 800 AC								
	Fan speed	rpm	900/700	900/700	900/700	900/700	900/700	900/700	900/700		
Noise Level	Equipment sound pressure (Lp10) (9)	dB(A)	47.8	52.6	52.6	47.8	52.6	52.3	53.8	55.6	
Weights	Empty weight	kg	435	455	455	515	530	545	615	620	
	In-service weight	kg	452	473	473	532	548	565	637	643	

(6) Seasonal Energy Efficiency Ratio for chillers for the high temperature process in line with Ecodesign Regulation EU 2016/2281.

(7) Seasonal Energy Efficiency factor in line with AHRI Standards 550/590.

(8) Nominal heating capacity for a water inlet/outlet temp. 40/45°C and outdoor air temp. 7°C DB/6°C WB.

(9) Sound pressure level in dB(A) measured in a free field at 10 m from the source.

Series 3 and 4 - S/P



Series 3 and 4 - H



PACIFICA

technical data



95 - 157 kW

KWE models			5100	5120	6130	6140	6150	6160	6170	6180
Cooling only version (R)										
Cooling	Cooling capacity (1)	kW	95.0	107.3	116.9	124.9	133.8	142.0	149.6	156.7
		TR	27	30.5	33.5	35.5	38	40.5	42.5	44.5
		kBTU/hr	324.1	366.1	398.7	426.3	456.4	484.4	510.5	534.6
	Power input (2)	kW	30.0	35.0	39.5	44.1	45.1	46.2	50.5	54.7
	EER (3)	W/W	3.2	3.1	3.0	2.8	3.0	3.1	3.0	2.9
		BTU/(Wxhr)	10.8	10.5	10.1	9.7	10.1	10.5	10.1	9.8
	ESEER (3)		5.3	5.0	4.7	4.8	4.9	5.0	4.8	4.7
	SEER (4)		5.2	5.2	4.6	4.5	4.7	4.8	4.7	4.5
	$\eta_{s,c}$ (5)		201%	201%	175%	173%	178%	183%	178%	173%
	SEPR (7°C) (6)		6.2	6.2	5.6	5.6	5.7	5.8	5.7	5.6
Heating mode	SEPR (-8°C) (6)		4.3	4.3	3.7	3.7	3.8	3.9	3.8	3.7
	IPLV (7)	kW/TR	0.59	0.66	0.66	0.66	0.65	0.64	0.65	0.67
		BTU/(Wxhr)	20.3	19.8	18.1	17.9	18.3	18.6	18.2	17.7
	Cooling capacity (1)	kW	93.6	105.8	115.2	123.1	131.8	139.9	-	-
	Power input (2)	kW	31.0	36.0	40.7	45.5	46.5	47.5	-	-
	EER (3)	W/W	3.0	2.9	2.8	2.7	2.8	2.9	-	-
	ESEER (3)		4.9	4.3	4.3	4.2	4.4	4.5	-	-
	SEER (4)		5.1	5.1	4.4	4.4	4.5	4.6	-	-
	$\eta_{s,c}$ (5)		194%	195%	169%	167%	173%	177%	-	-
	SEPR (7°C) (6)		6.1	6.1	5.5	5.4	5.6	5.7	-	-
Heating mode	SEPR (-8°C) (6)		4.1	4.1	3.6	3.5	3.7	3.8	-	-
	IPLV (7)	kW/TR	0.61	0.61	0.68	0.69	0.67	0.66	-	-
		BTU/(Wxhr)	19.6	19.2	17.5	17.3	17.7	18.1	-	-
	Heating capacity (8)	kW	96.2	124.2	132.7	143.4	152.2	161.1	-	-
	Power input (2)	kW	31.2	35.8	39.2	43.8	44.7	45.5	-	-
	COP (3)	W/W	3.1	3.5	3.4	3.3	3.4	3.5	-	-
	SCOP warmer climate (4)		4.0	4.4	4.1	4.0	4.2	4.3	-	-
	$\eta_{s,h}$ warmer climate (5)		153%	168%	156%	153%	159%	164%	-	-
	$\eta_{s,h}$ average climate with EC fan (5)		138%	156%	136%	131%	137%	142%	-	-
	Technical characteristics									
Power supply			400 V/III/50 HZ with neutral							
Refrigerant circuit	Refrigerant fluid/GWP	Kg CO ₂	R410A/2088							
	Type of compressor		Hermetic tandem scroll							
	No. circuits/compressors		2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4
Hydraulic circuit	No. power stages		4	4	4	4	4	4	4	4
	Water flow	m ³ /h	16.4	18.5	20.1	21.5	23.0	24.5	25.8	27.0
	Type of heat exchanger		Stainless steel brazed plates (standard)/Shell and tube (optional)							
	Hydraulic connections		2 1/2"	2 1/2"	DN 80	DN 80	DN 80	DN 80	DN 80	DN 80
Outdoor fan	Buffer tank capacity -vers. H	litres	in separate module		375					
	Outdoor airflow	m ³ /h	28000	39000	39000	39000	39000	39000	39000	39000
	No. x Type of fan		2 x Axial 800 AC							
Noise Level	Fan speed	rpm	660/480	900/700	900/700	900/700	900/700	900/700	900/700	900/700
	Equipment sound pressure (Lp10) (9)	dB(A)	49.9	54.6	54.6	55.5	55.5	56.2	56.2	56.2
Weights	Empty weight	kg	840	846	1048	1069	1096	1343	1354	1365
	In-service weight	kg	865	871	1074	1096	1123	1371	1383	1395

(1) Nominal cooling capacity for a water inlet/outlet temp. 12/7°C and outdoor air temp. 35°C.

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

(3) EER, COP and ESEER calculated based on standard EN 14511-2013.

(4) Seasonal Energy Efficiency Ratio (SEER) for cooling factor and seasonal coefficient of performance for heating (SCOP), calculated based on standard EN 14825:2013.

(5) Seasonal Energy Efficiency Ratio for cooling ($\eta_{s,c}$) and heating ($\eta_{s,h}$) of spaces, in line with Ecodesign Regulation EU 2016/2281.

Series 5 - S/P



Series 61 - S/P



PACIFICA

technical data



160 - 318 kW

KWE models		6200	6210	6240	6270	6300	6340	6380	
Cooling only version (R)									
Cooling	Cooling capacity (1)	kW	162.6	187.8	213.2	235.7	262.4	289.2	317.9
		TR	46.5	53.5	61	67	75	82.5	90.5
		kBTU/hr	555.0	641.0	727.6	804.1	895.4	986.9	1084.7
	Power input (2)	kW	54.4	58.9	67.0	75.3	85.2	98.1	111.1
	EER (3)	(W/W)	3.0	3.2	3.2	3.1	3.1	2.9	2.9
		BTU/(Wxhr)	10.2	10.9	10.9	10.7	10.5	10.1	9.8
	ESEER (3)		5.1	5.4	5.4	5.3	5.4	5.2	5.0
	SEER (4)		4.7	5.0	5.1	5.1	5.1	5.0	5.0
	ηs,c (5)		178%	193%	195%	194%	198%	193%	191%
	SEPR (7°C) (6)		5.7	6.1	6.1	6.1	6.2	6.1	6.1
SEPR (-8°C) (6)		3.8	4.2	4.2	4.2	4.3	4.2	4.1	
IPLV (7)	kW/TR	0.64	0.60	0.60	0.60	0.61	0.62	0.63	
	BTU/(Wxhr)	18.4	19.7	19.7	19.6	19.3	19.0	18.8	
Heat pump version (I)									
Cooling mode	Cooling capacity (1)	kW	160.5	185.3	210.3	232.4	258.8	285.1	313.2
	Power input (2)	kW	55.8	60.5	68.9	77.4	87.6	100.4	113.8
	EER (3)	W/W	2.9	3.1	3.1	3.0	3.0	2.8	2.8
	ESEER (3)		4.3	4.7	4.8	4.7	4.8	4.9	4.8
	SEER (4)		4.5	4.9	4.9	4.9	5.0	5.0	5.0
	ηs,c (5)		172%	187%	189%	188%	191%	193%	190%
	SEPR (7°C) (6)		5.6	5.9	6.0	6.0	6.1	6.1	6.0
	SEPR (-8°C) (6)		3.6	4.0	4.1	4.1	4.1	4.2	4.1
	IPLV (7)	kW/TR	0.66	0.62	0.62	0.62	0.63	0.62	0.63
		BTU/(Wxhr)	17.7	19.1	19.2	19.0	18.8	19.0	18.7
Heating mode	Heating capacity (8)	kW	179.2	207.9	234.8	265.5	296.3	341.8	387.2
	Power input (2)	kW	51.1	59.1	66.0	74.2	84.0	96.3	109.1
	COP (3)	W/W	3.5	3.5	3.6	3.6	3.5	3.6	3.5
	SCOP warmer climate (4)		4.4	4.4	4.5	4.6	4.5	4.6	4.6
	ηs,h warmer climate (5)		166%	170%	173%	174%	171%	178%	178%
	ηs,h average climate with EC fan (5)		140%	141%	143%	144%	142%	142%	142%
Technical characteristics									
Power supply		400 V/III/50 HZ with neutral							
Refrigerant fluid/GWP	Kg CO ₂	R410A/2088							
Type of compressor		Hermetic tandem scroll							
No. circuits/compressors		2/4	2/4	2/4	2/4	2/4	2/4	2/4	
No. power stages		4	4	4	4	4	4	4	
Water flow	m ³ /h	28.0	32.4	36.7	40.6	45.2	49.8	54.8	
Type of heat exchanger		Stainless steel brazed plates (standard)/Shell and tube (optional)							
Hydraulic connections		DN 80	DN 80	DN 80	DN 80	DN 100	DN 100	DN 100	
Buffer tank capacity -vers. H	litres	375							
Outdoor airflow	m ³ /h	58500	58500	58500	58500	78000	83600	83600	
No. x Type of fan		3 x Axial 800 AC			4 x Axial 800 AC		(2 AC + 2 EC) x Axial 800		
Fan speed	rpm	900/700	900/700	900/700	900/700	900/700	900/700	900/700	
Equipment sound pressure (Lp10) (9)	dB(A)	57.5	57.7	58	58.3	59.2	59.2	59.2	
Empty weight	kg	1650	1750	1805	1865	2154	2205	2265	
In-service weight	kg	1686	1786	1842	1903	2196	2249	2310	

(6) Seasonal Energy Efficiency Ratio for chillers for the high temperature process in line with Ecodesign Regulation EU 2016/2281.

(7) Seasonal Energy Efficiency factor in line with AHRl Standards 550/590.

(8) Nominal heating capacity for a water inlet/outlet temp. 40/45°C and outdoor air temp. 7°C DB/6°C WB.

(9) Sound pressure level in dB(A) measured in a free field at 10 m from the source.

Series 62 - S/P



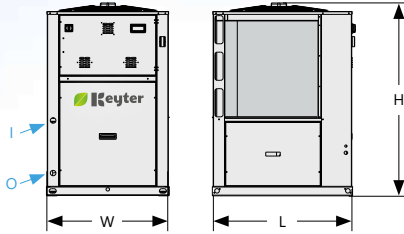
Series 63 - S/P



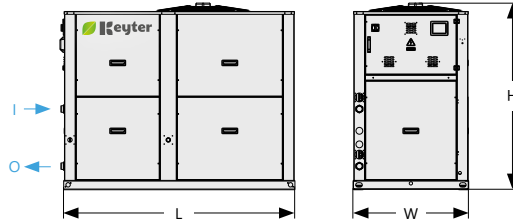
PACIFICA dimensions

Dimensions of the standard version (S) and the version with hydraulic kit (P):

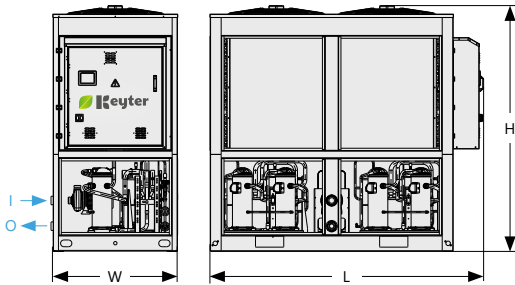
series 2



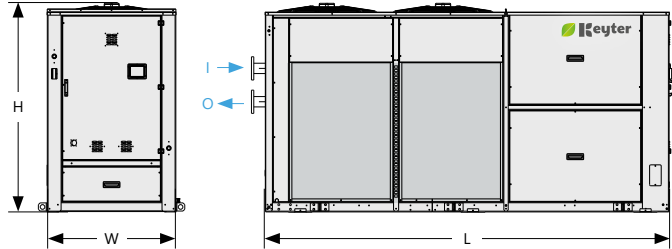
series 3-4



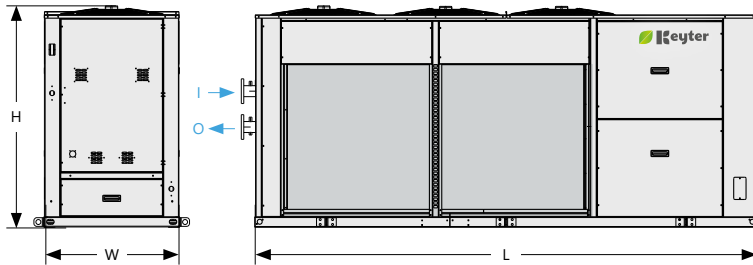
series 5



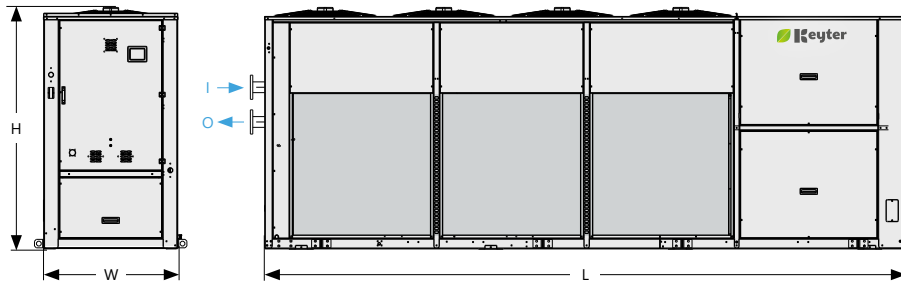
series 6 (models 6130 to 6180)



series 6 (models 6200 to 6270)



series 6 (models 6300 to 6380)



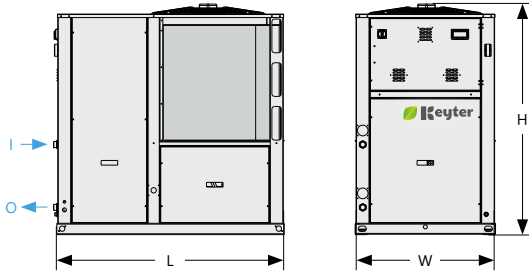
Dimensions of the standard version (S) and the version with hydraulic kit (P)

	Series 2	Series 3	Series 4	Series 5 (version S)	Series 6 (models 61xx)	Series 6 (models 62xx)	Series 6 (models 63xx)
L	1200	2100	2100	2412	3470	4370	5300
W	1050	1050	1050	1100	1100	1100	1100
H	1725	1395	1695	2176	1795	1795	1995

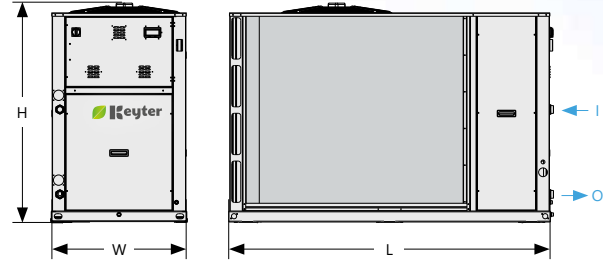
PACIFICA dimensions

Dimensions of version with hydraulic kit and buffer tank (H):

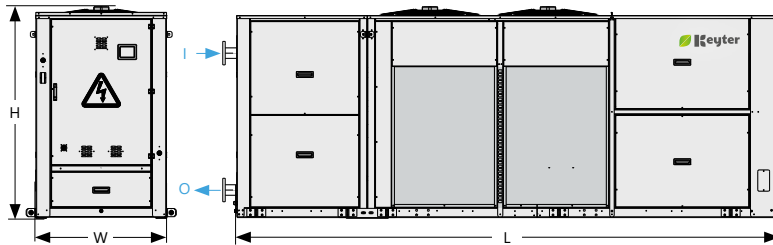
series 2



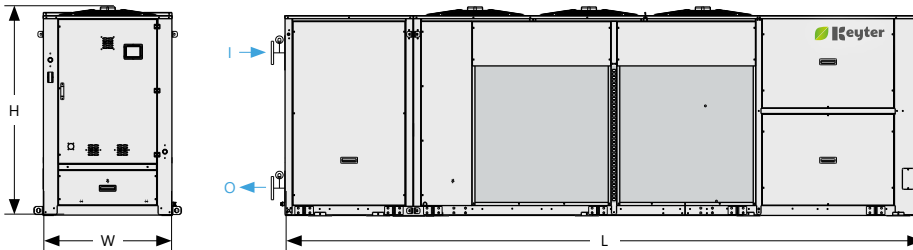
series 3-4



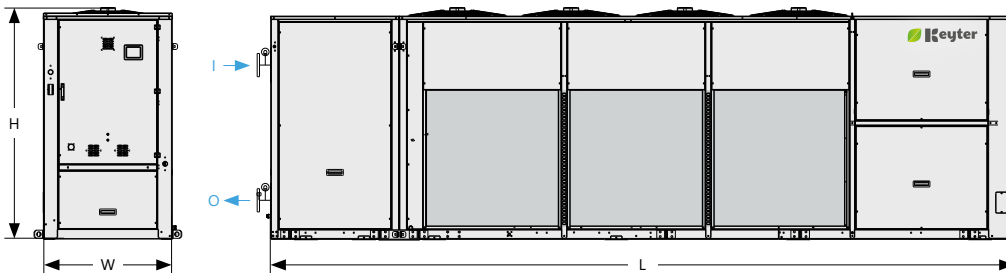
series 6 (models 6130 to 6180)



series 6 (models 6200 to 6270)



series 6 (models 6300 to 6380)



Dimensions of version with hydraulic unit and buffer tank (H)

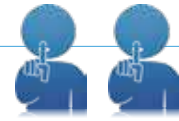
	Series 2	Series 3	Series 4	Series 6 (models 61xx)	Series 6 (models 62xx)	Series 6 (models 63xx)
L	1700	2490	2490	4580	5480	6410
W	1050	1050	1050	1100	1100	1100
H	1725	1395	1695	1795	1795	1995

In series 5, the buffer tank is always assembled as an optional independent module.

For the option of an independent module with 375 L capacity buffer tank, see prod. dimensions.

For an independent module with 725 L capacity buffer tank, see module dimensions on page 105.

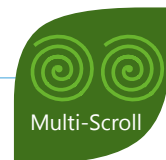
PACIFICA SILENCE



Keyter PACIFICA SILENCE



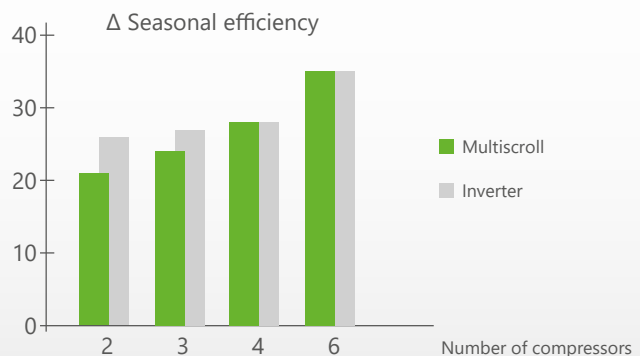
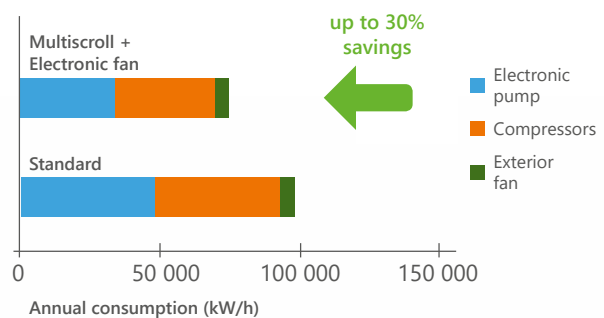
Energy efficiency - Multiscroll technology



Multiscroll technology combined with electronic expansion valves (EEVs) and EC axial fans enable us to meet the maximum energy efficiency standards with a robust, reliable solution.

With this solution, immediate benefits are gained in the operation of large centralised facilities, creating synergies that enable substantial savings up to 30% of the energy consumed.

The seasonal efficiency of tandem multiscroll units based on four AC scroll compressors is similar to that of equipment with inverter compressors. For units with fewer than four compressors, a high SEER is achieved thanks to the Inverter technology with refrigerant flow regulation.



PACIFICA SILENCE

technical data



100 - 164 kW

KWE models			7105	7117	7130	7140	7148	7156	7180	
Cooling only version (R)										
Cooling	Cooling capacity (1)	kW	103.0	114.2	122.8	131.4	140.6	149.7	164.4	
		TR	29.5	32.5	35	37.5	40	43	47	
		kBTU/hr	351.3	389.7	419.0	448.4	479.6	510.9	560.9	
	Power input (2)	kW	29.0	35.0	39.5	44.1	45.1	45.6	54.1	
		EER (3)	(W/W)	3.6	3.3	3.1	3.0	3.1	3.3	3.0
	Cooling mode	ESEER (3)	BTU/(Wxhr)	12.1	11.1	10.6	10.2	10.6	11.2	10.4
			5.6	5.2	5.1	5.0	5.1	5.6	5.2	
		SEER (4)	5.1	4.8	4.7	4.7	4.8	5.5	5.1	
		ηs,c (5)	194%	184%	182%	180%	186%	211%	197%	
		SEPR (7°C) (6)	6.1	5.8	5.8	5.8	5.9	6.5	6.2	
SEPR (-8°C) (6)		4.2	3.9	3.9	3.8	4.0	4.6	4.3		
IPLV (7)		kW/TR	0.60	0.63	0.64	0.64	0.63	0.57	0.60	
	BTU/(Wxhr)	20.0	18.9	18.7	18.6	19.0	20.8	19.6		
Heat pump version (I)										
Cooling mode	Cooling capacity (1)	kW	99.8	110.7	119.0	127.2	136.2	145.1	159.4	
		Power input (2)	kW	29.6	35.7	40.3	45.0	46.0	47.9	56.7
	EER (3)	W/W	3.4	3.1	2.9	2.8	3.0	3.0	2.8	
	ESEER (3)	4.7	4.5	4.4	4.4	4.5	5.0	4.6		
	SEER (4)	4.9	4.6	4.6	4.5	4.7	5.2	4.8		
	ηs,c (5)	187%	177%	175%	173%	178%	198%	184%		
	SEPR (7°C) (6)	5.9	5.7	5.6	5.6	5.7	6.2	5.9		
	SEPR (-8°C) (6)	4.0	3.8	3.7	3.7	3.8	4.3	3.9		
	IPLV (7)	kW/TR	0.62	0.65	0.66	0.67	0.65	0.60	0.64	
		BTU/(Wxhr)	19.3	18.2	18.0	17.9	18.3	19.7	18.3	
Heating mode	Heating capacity (8)	kW	112.1	126.8	138.8	153.5	158.7	166.5	184.1	
	Power input (2)	kW	31.2	36.1	37.6	40.2	44.7	47.6	53.3	
	COP (3)	W/W	3.6	3.5	3.7	3.8	3.6	3.5	3.5	
	SCOP average climate (4)	3.4	3.4	3.5	3.7	3.5	3.6	3.5		
	ηs,h average climate (5)	128%	126%	133%	139%	131%	137%	133%		
Technical characteristics										
Power supply			400 V/III/50 HZ with neutral							
Refrigerant circuit	Refrigerant fluid/GWP	Kg CO ₂	R410A/2088							
	Type of compressor		Hermetic tandem scroll							
	No. circuits/compressors		2/4	2/4	2/4	2/4	2/4	2/4	2/4	
Hydraulic circuit	No. power stages		4	4	4	4	4	4	4	
	Water flow	m ³ /h	17.7	19.7	21.2	22.6	24.2	25.8	28.3	
	Type of heat exchanger		Stainless steel brazed plates							
Outdoor fan	Hydraulic connections		DN 80	DN 80	DN 80	DN 80	DN 80	DN 80	DN 80	
	Outdoor airflow	m ³ /h	39000	39000	39000	39000	39000	56000	56000	
	No. x Type of fan		2 x Axial 800 AC				4 x Axial 800 AC			
Noise Level	Fan speed	rpm	900/700	900/700	900/700	900/700	900/700	660/480	660/480	
	Equipment sound pressure (Lp10) (9)	dB(A)	50.5	50.5	50.1	50.9	51	52.8	53	
Weights	Empty weight	kg	1350	1375	1400	1446	1465	1485	1535	
	In-service weight	kg	1375	1400	1426	1473	1492	1513	1564	

(1) Nominal cooling capacity for a water inlet/outlet temp. 12/7°C and outdoor air temp. 35°C.

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

(3) EER, COP and ESEER calculated based on standard EN 14511-2013.

(4) Seasonal Energy Efficiency Ratio (SEER) for cooling factor and seasonal coefficient of performance for heating (SCOP), calculated based on standard EN 14825:2013.

(5) Seasonal Energy Efficiency Ratio for cooling (ηs,c) and heating (ηs,h) of spaces, in line with Ecodesign Regulation EU 2016/2281

(6) Seasonal Energy Efficiency Ratio for chillers for the high temperature process in line with Ecodesign Regulation EU 2016/2281

(7) Seasonal Energy Efficiency factor in line with AHRI Standards 550/590

(8) Nominal heating capacity for a water inlet/outlet temp. 40/45°C and outdoor air temp. 7°C DB/6°C WB

(9) Sound pressure level in dB(A) measured in a free field at 10 m from the source.

Series 7



PACIFICA SILENCE

technical data



190 - 329 kW

KWE models			8210	8234	8270	9300	9312	9360	
Cooling only version (R)									
Cooling	Cooling capacity (1)	kW	197.1	224.6	246.6	270.1	299.5	328.8	
		TR	56	64	70.5	77	85.5	93.5	
		kBTU/hr	672.6	766.4	841.4	921.6	1021.8	1121.9	
	Power input (2)	kW	62.0	69.6	81.2	86.9	91.2	106.5	
		EER (3)	(W/W)	3.2	3.2	3.0	3.1	3.3	3.1
	Cooling mode	ESEER (3)	BTU/(Wxhr)	10.9	11.0	10.4	10.6	11.2	10.5
			SEER (4)	5.7	5.7	5.2	5.6	5.7	5.7
			SEER (4)	5.6	5.5	5.2	5.5	5.6	5.3
			$\eta_{s,c}$ (5)	216%	214%	202%	214%	218%	206%
			SEPR (7°C) (6)	6.7	6.6	6.3	6.6	6.7	6.4
SEPR (-8°C) (6)			4.7	4.7	4.4	4.7	4.8	4.5	
IPLV (7)			kW/TR	0.55	0.56	0.59	0.56	0.56	0.58
		BTU/(Wxhr)	21.3	20.9	19.9	21.1	21.2	20.3	
Heat pump version (I)									
Cooling mode	Cooling capacity (1)	kW	190.8	217.6	239.1	262.8	290.2	318.8	
		Power input (2)	kW	65.3	71.9	85.1	91.7	95.8	113.4
		EER (3)	W/W	2.9	3.0	2.8	2.9	3.0	2.8
		ESEER (3)	5.1	5.1	4.7	5.0	5.1	4.7	
		SEER (4)	5.2	5.3	4.9	5.2	5.3	4.9	
		$\eta_{s,c}$ (5)	201%	204%	188%	199%	204%	188%	
		SEPR (7°C) (6)	6.3	6.4	6.0	6.2	6.4	6.0	
		SEPR (-8°C) (6)	4.4	4.4	4.1	4.3	4.5	4.1	
		IPLV (7)	kW/TR	0.59	0.59	0.63	0.60	0.59	0.63
				BTU/(Wxhr)	19.9	20.0	18.6	19.7	20.0
Heating mode	Heating capacity (8)	kW	226.9	249.6	274.5	302.7	332.8	364.6	
		Power input (2)	kW	58.6	72.9	83.7	86.3	96.1	108.6
		COP (3)	W/W	3.9	3.4	3.3	3.5	3.5	3.4
		SCOP average climate (4)	4.0	3.6	3.4	3.7	3.6	3.5	
		$\eta_{s,h}$ average climate (5)	153%	136%	128%	138%	137%	131%	
Technical characteristics									
Power supply			400 V/III/50 HZ with neutral						
Refrigerant circuit	Refrigerant fluid/GWP	Kg CO ₂	R410A/2088						
	Type of compressor		Hermetic tandem scroll						
	No. circuits/compressors		3/6	3/6	3/6	4/8	4/8	4/8	
Hydraulic circuit	No. power stages		6	6	6	8	8	8	
	Water flow	m ³ /h	34.0	38.7	42.5	46.5	51.6	56.6	
	Type of heat exchanger		Stainless steel brazed plates						
Outdoor fan	Hydraulic connections		DN 100	DN 100	DN 100	DN 100	DN 100	DN 100	
	Outdoor airflow	m ³ /h	58500	84000	84000	112000	112000	112000	
	No. x Type of fan		3 x Axial 800 AC	6 x Axial 800 AC		8 x Axial 800 AC			
Noise Level	Fan speed	rpm	900/700	660/480	660/480	660/480	660/480	660/480	
	Equipment sound pressure (Lp10) (9)	dB(A)	52.7	54.7	55	55.3	55.8	55.5	
Weights	Empty weight	kg	2005	2095	2173	2970	3015	3085	
	In-service weight	kg	2042	2133	2212	3018	3064	3135	

- (1) Nominal cooling capacity for a water inlet/outlet temp. 12/7°C and outdoor air temp. 35°C.
- (2) Nominal power input by compressors and outdoor fans.
- (3) EER, COP and ESEER calculated based on standard EN 14511-2013.
- (4) Seasonal Energy Efficiency Ratio (SEER) for cooling factor and seasonal coefficient of performance for heating (SCOP), calculated based on standard EN 14825:2013.
- (5) Seasonal Energy Efficiency Ratio for cooling ($\eta_{s,c}$) and heating ($\eta_{s,h}$) of spaces, in line with Ecodesign Regulation EU 2016/2281
- (6) Seasonal Energy Efficiency Ratio for chillers for the high temperature process in line with Ecodesign Regulation EU 2016/2281
- (7) Seasonal Energy Efficiency factor in line with AHRI Standards 550/590
- (8) Nominal heating capacity for a water inlet/outlet temp. 40/45°C and outdoor air temp. 7°C DB/6°C WB
- (9) Sound pressure level in dB(A) measured in a free field at 10 m from the source.

Series 8



Series 9



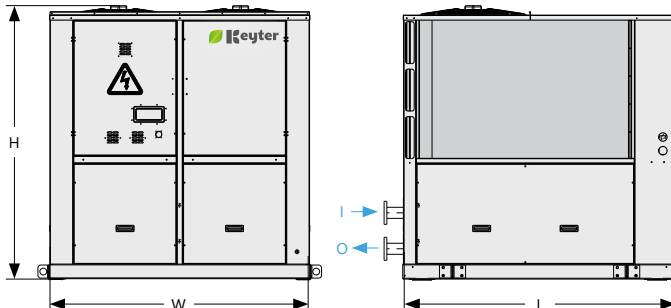
PACIFICA SILENCE

dimensions

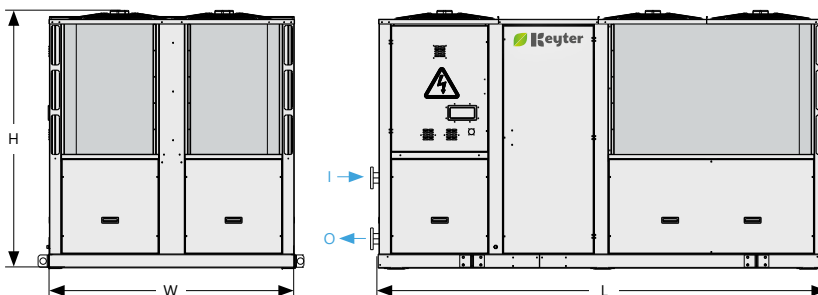


Dimensions of the standard version (S) and version with hydraulic kit (P):

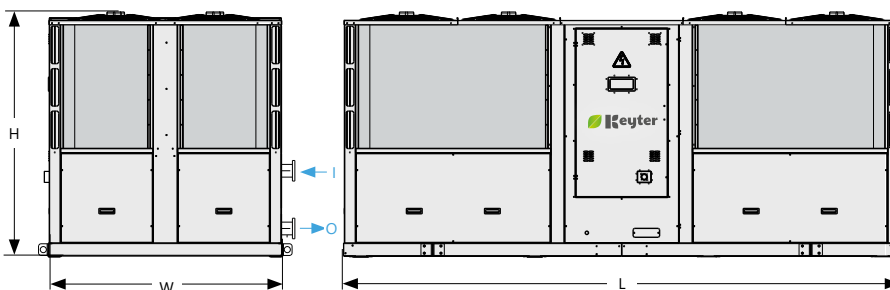
series 7



series 8



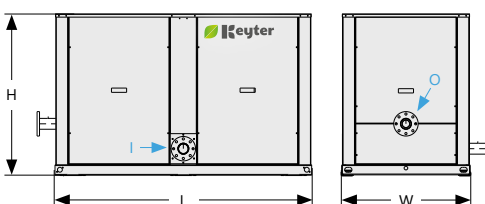
series 9



Dimensions of the standard version (S) and version with hydraulic kit (P)

	Series 7	Series 8	Series 9
L	2200	3825	5000
W	2100	2100	2100
H	2197	2197	2197

Independent module dimensions for units with buffer tank:



Independent module (buffer tank)

L	2100
W	1050
H	1319

PACIFICA INVERTER

technical data

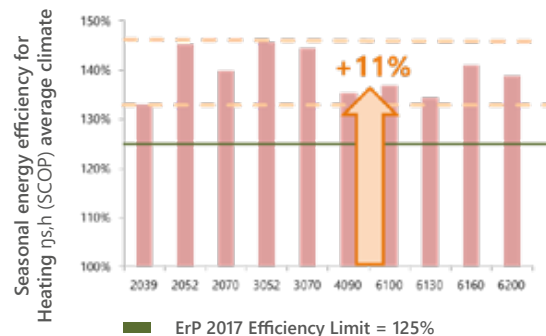
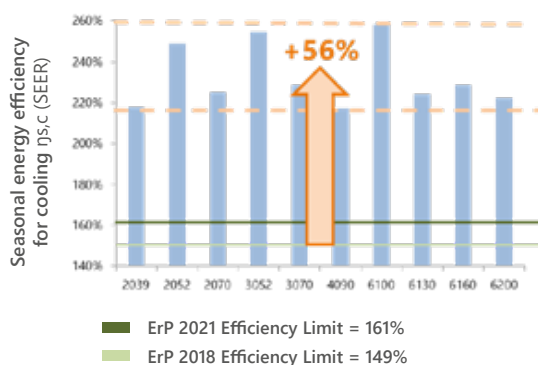


38 - 170 kW

KWE models			2039	2052	2070	3052	3070	4090	6100	6130	6160	6200	
Cooling only version (R)													
Cooling	Cooling capacity (1)	kW	39.5	52.7	67.7	53.8	67.3	84.9	102.5	122.3	148.7	170.1	
		TR	11	14.5	18.5	15	18.5	23.5	29	33.5	40.5	46.5	
		kBTU/hr	134.7	179.9	231.0	183.7	229.6	289.7	349.7	417.3	507.4	580.5	
	Power input (2)	kW	11.1	13.7	20.6	13.5	20.2	26.5	28.2	37.6	44.4	51.7	
	EER (3)	(W/W)	3.5	3.9	3.3	4.0	3.3	3.2	3.6	3.2	3.3	3.3	
		BTU/(Wxhr)	12.1	13.2	11.2	13.6	11.4	10.9	12.4	11.1	11.4	11.2	
	SEER (4)		5.7	6.4	5.8	6.6	5.9	5.6	6.7	5.8	5.9	5.8	
	$\eta_{s,c}$ (5)		218%	249%	225%	255%	228%	217%	258%	224%	229%	222%	
	SEPR (7°C) (6)		6.6	7.3	6.8	7.5	6.9	6.6	7.7	6.8	7.0	6.8	
	SEPR (-8°C) (6)		4.6	5.4	4.9	5.6	5.0	4.7	5.7	4.9	5.0	4.9	
IPLV (7)	kW/TR	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6		
	BTU/(Wxhr)	19.2	21.5	19.5	22.0	19.8	18.5	21.9	19.1	19.4	18.6		
Heat pump version (I)													
Cooling mode	Cooling capacity (1)	kW	38.3	51.1	65.5	52.2	65.2	82.3	101.1	120.6	146.6	168.0	
	Power input (2)	kW	11.4	14.0	21.1	13.8	20.6	27.0	29.1	38.9	45.7	53.1	
	EER (3)	W/W	3.4	3.7	3.1	3.8	3.2	3.0	3.5	3.1	3.2	3.2	
	SEER (4)		5.4	6.2	5.6	6.3	5.7	5.4	6.4	5.6	5.7	5.5	
	$\eta_{s,c}$ (5)		210%	239%	215%	245%	219%	208%	249%	216%	221%	214%	
	SEPR (7°C) (6)		6.4	7.1	6.6	7.2	6.7	6.4	7.4	6.6	6.8	6.6	
	SEPR (-8°C) (6)		4.5	5.2	4.7	5.3	4.7	4.5	5.5	4.7	4.9	4.7	
	IPLV (7)	kW/TR	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.7	
		BTU/(Wxhr)	18.5	20.8	18.7	21.2	19.0	17.8	21.2	18.4	18.8	18.0	
	Heating mode	Heating capacity (8)	kW	42.2	55.7	73.2	55.8	74.4	92.2	107.5	133.0	161.4	179.6
Power input (2)		kW	10.8	14.4	19.8	14.4	19.5	25.7	30.7	36.7	43.0	47.5	
COP (3)		W/W	3.9	3.9	3.7	3.9	3.8	3.6	3.5	3.6	3.8	3.8	
SCOP average climate (4)			3.5	3.8	3.7	3.8	3.8	3.6	3.6	3.6	3.7	3.7	
$\eta_{s,h}$ average climate (5)			133%	145%	140%	146%	145%	135%	137%	134%	141%	139%	
Technical characteristics													
Power supply	400 V/III/50 HZ with neutral												
Refrigerant fluid/GWP	Kg CO ₂	R410A/2088											
Refrigerant circuit	Type of compressor	Inverter											
	No. circuits/compressors	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2	
	Power stage control	Modulating control 25-100%						Modulating control 12.5-100%					
Hydraulic circuit	Water flow	m ³ /h	6.6	8.8	11.3	9.0	11.2	14.2	17.4	20.8	25.3	28.9	
	Type of heat exchanger	Stainless steel brazed plates											
	Hydraulic connections		1 1/2"	2"	2"	2"	2"	2"	2 1/2"	DN80	DN80	DN80	
Outdoor fan	Outdoor airflow	m ³ /h	22000	22000	22000	22000	22000	22000	44000	44000	44000	66000	
	No. x Type of fan		1 x Axial 800 EC						2 x Axial 800 EC			3 x Axial 800 EC	
Equipment sound pressure (Lp10) (9)	dB(A)	46.9	47.8	52.6	47.8	52.3	55.6	49.9	54.6	56.2	57.5		
Weights	Empty weight	kg	371	448	482	530	561	639	865	1079	1383	1700	
	In-service weight	kg	385	465	487	547	581	662	890	1105	1411	1736	

- (1) Nominal cooling capacity for a water inlet/outlet temp. 12/7°C and outdoor air temp. 35°C.
- (2) Nominal power input by compressors and outdoor fans.
- (3) EER and COP calculated based on standard EN 14511-2013.
- (4) Seasonal Energy Efficiency Ratio (SEER) for cooling factor and seasonal coefficient of performance for heating (SCOP), calculated based on standard EN 14825:2013.
- (5) Seasonal Energy Efficiency Ratio for cooling ($\eta_{s,c}$) and heating ($\eta_{s,h}$) of spaces, in line with Ecodesign Regulation EU 2016/2281.
- (6) Seasonal Energy Efficiency Ratio for chillers for the high temperature process in line with Ecodesign Regulation EU 2016/2281.
- (7) Seasonal Energy Efficiency factor in line with AHRI Standards 550/590.
- (8) Nominal heating capacity for a water inlet/outlet temp. 40/45°C and outdoor air temp. 7°C DB/6°C WB.
- (9) Sound pressure level in dB(A) measured in a free field at 10 m from the source.

Seasonal energy efficiency



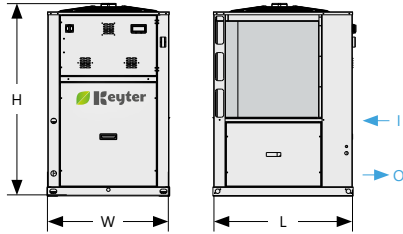
PACIFICA INVERTER

dimensions

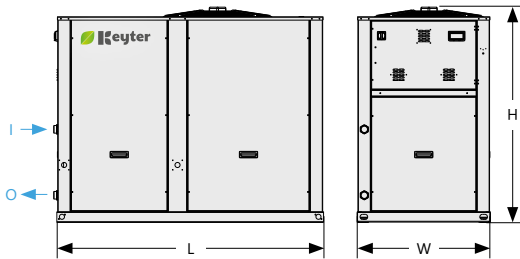


Dimensions:

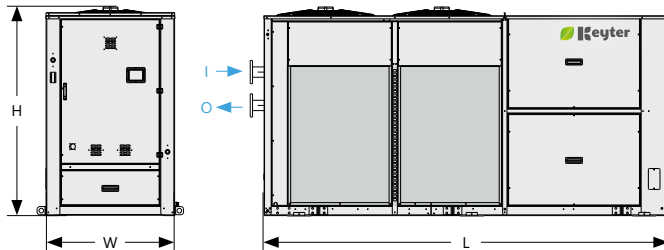
Standard version (S) and version with hydraulic kit (P):
series 2



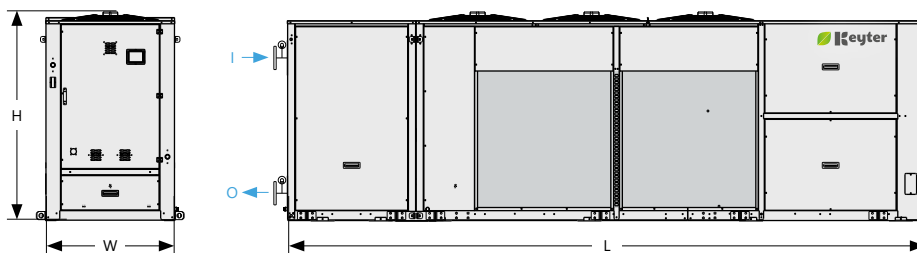
series 3-4



series 6 (models 6100 to 6160)



series 6 (models 6200 to 6270)



Dimensions of the standard version (S) and version with hydraulic kit (P)

	Series 2	Series 3	Series 4	Series 61xx	Series 62xx
L	1200	2100	2100	3470	4370
W	1050	1050	1050	1100	1100
H	1725	1395	1695	1795	1795

Dimensions of version with hydraulic kit and buffer tank (H)

	Series 2	Series 3	Series 4	Series 61xx	Series 62xx
L	1700	2490	2490	4580	5480
W	1050	1050	1050	1100	1100
H	1725	1395	1695	1795	1795