PACIFICA

CHILLERS & air-to-water HEAT PUMPS



Inverter 36-174 kW 41-194 kW

Euro 34-322 kW 41-287 kW

Multi-Scroll EC

Made in Spain

R410A R452B R454B

PACIFICA *Inverter*

36-174 kW | 41-194 kW

Inverter ErP 2021

Chillers and heat pumps equipped with full inverter technology, featuring inverter compressors, an electronic expansion valve and variable-speed electronic fans to ensure optimal energy savings and comply with the ErP 2021 regulation.
The compressors in this range are in an enclosed compartment, isolated from the airflow, with versions available with a hydraulic unit and buffer tank.

PACIFICA *Euro*

34-322 kW | 41-287 kW

Multi-Scroll ErP 2021

Chillers and heat pumps equipped with multiscroll compressor technology and electronic fans to achieve significant energy savings and comply with the ErP 2021 regulation.
The compressors in this range are in an enclosed compartment, isolated from the airflow, with versions available with a hydraulic unit and buffer tank.

Codification:

KWE (Series) | (Size, Power) | **MS4W**

I - Reversible heat pump / **R** - Cooling only

Series version
M - EURO version, multiscroll compressors
V - INVERTER version, inverter technology compressors

S -Standard equipment / **P** - Version with hydraulic kit / **H** - Version with hydraulic kit and buffer tank / **J**- Version with hydraulic kit and a buffer tank with a larger capacity (KWE series 2 & 5)

Power supply
4 - 400 V/III/50 Hz

Refrigerant
W - R410A / **B** - R452B / **C** - R454B

PACIFICA *Inverter*

KWE Inverter model			2036	2046	2052	5070	5090	6130	6160	6200
COOLING ONLY VERSION (R)										
Cooling capacity	Cooling power (1)	kW	36,3	45,0	53,9	69,9	92,1	122,3	151,9	173,8
		TR	10,5	13,0	15,5	20,0	26,5	35,0	43,5	49,5
		kBTU/h	126	156	186	240	318	420	522	594
	Absorbed power (2)	kW	9,5	11,8	14,2	17,8	23,7	38,4	45,0	52,9
	EER (3)	kW/kW	3,8	3,8	3,8	3,9	3,9	3,2	3,4	3,3
		BTU/(h*W)	13,3	13,3	13,1	13,5	13,4	10,9	11,6	11,2
	SEER (4)	kWh/kWh	5,5	5,7	6,2	6,0	5,6	5,7	5,8	5,6
	ηs,c (4) (5)	%	219%	223%	246%	236%	223%	224%	229%	221%
	SEPR (7°C) (4) (6)	kWh/kWh	6,9	7,0	7,5	7,3	7,0	7,0	7,1	6,9
	SEPR (-8°C) (4) (6)	kWh/kWh	4,9	5,0	5,6	5,4	5,0	5,1	5,2	5,0
	IPLV (7)	kW/TR	0,60	0,60	0,57	0,50	0,55	0,64	0,63	0,65
		kBtu/kW*h	19,82	20,00	20,94	23,55	21,43	18,57	18,94	18,17
HEAT PUMP VERSION (I)										
Cooling mode	Cooling power (1)	kW	35,2	43,8	52,2	68,9	91,0	120,6	149,8	171,6
	Absorbed power (2)	kW	9,6	12,0	14,4	18,3	24,3	39,6	46,3	54,3
	EER (3)	W/W	3,6	3,7	3,6	3,8	3,7	3,0	3,2	3,2
	SEER (4)	kWh/kWh	5,3	5,4	6,0	5,7	5,5	5,5	5,6	5,4
	ηs,c (4)	%	210%	214%	236%	225%	216%	216%	221%	213%
	SEPR (7°C) 4)	kWh/kWh	6,7	6,8	7,3	7,0	6,8	6,8	6,9	6,7
	SEPR (-8°C) (4)	kWh/kWh	4,7	4,8	5,4	5,1	4,9	4,9	5,0	4,8
	IPLV (7)	kW/TR	0,62	0,62	0,59	0,53	0,57	0,66	0,65	0,68
		kBtu/kW*h	19,10	19,23	20,17	22,33	20,85	17,94	18,36	17,52
Heating mode	Heating power (8)	kW	38,7	50,4	57,0	79,4	100,5	134,9	164,9	182,5
	Absorbed power (2)	kW	10,6	12,5	14,9	22,9	28,6	37,5	43,6	48,8
	COP (3)	W/W	3,6	4,0	3,8	3,5	3,5	3,6	3,8	3,7
	SCOP, average climate (4)	kWh/kWh	4,0	3,9	4,1	3,9	3,9	3,9	4,1	3,9
	ηs,h, average climate (4) (5)	%	155%	152%	159%	151%	153%	153%	161%	153%
TECHNICAL FEATURES										
Power supply			400V / III / 50HZ with neutral							
Cooling circuit	Refrigerant fluid/GWP	kg CO_2	R410A / 2088							
	No. circuits/compressors		1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2
	No. power stages		modulating control 25-100%			modulating control 12.5-100%				
Hydraulic circuit	Inner water flow rate	m^3/h	6,3	7,8	9,3	12,0	15,9	21,1	26,2	29,9
	Type of heat exchanger		stainless steel brazed plates							
	Ø of hydraulic connections		1 1/2"	1 1/2"	2"	2"	2"	DN 80	DN 80	DN 80
	Buffer tank capacity (H)	litres	200	200	200	200	200	375	375	375
Outdoor fan	Outdoor airflow	m^3/h	22000	22000	22000	44000	44000	44000	44000	66000
	Number of fans		1	1	1	2	2	2	2	3
	Ø and type of fan	mm	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC
Equipment sound pressure (Lp10) (9)		dB(A)	52,9	53,3	53,6	57,2	57,7	59,4	59,8	62,2
Weights (S version)	Empty weight	kg	513	535	543	1110	1153	1320	1371	1665
	In-service weight	kg	527	551	560	1127	1173	1346	1399	1701

(1) Nominal cooling power for a water inlet/outlet temp. of 12/7°C and outdoor air temp. of 35°C. Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10E-4 ($m^2 \cdot K / W$)
(2) Nominal power input by compressors and outdoor fans
(3) EER and COP calculated based on standard EN: 14511-2018
(4) Seasonal Efficiency calculated based on standard EN 14825:2018. For heating, the seasonal coefficient of performance (SCOP) and seasonal energy efficiency for heating (Γ)s, h) are calculated for low temperature and average climate applications
(5) Γ)s, c values in accordance with Ecodesign Regulation EU 2016/2281 for comfort applications. Γ)s, h values in accordance with the ecodesign, by virtue of Regulation EU 813/2013 for heat pump applications
(6) Seasonal Energy Performance Ratio (SEPR) values for chillers for high-temperature processes (12/7°C) in line with Ecodesign Regulation EU 2016/2281. Seasonal Energy Performance Ratio (SEPR) values for chillers for medium-temperature processes (-2/-8°C) in line with Ecodesign Regulation EU 2015/1095
(7) Seasonal Energy Efficiency Ratio in line with AHRI Standards 550/590
(8) Nominal heating capacity for a water inlet/outlet temp. of 40/45°C and outdoor air temp. of 7°C DB/6°C WB. Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10E-4 (m^2K/W)
(9) Sound pressure level in dB(A) measured in a free field at 10 m from the source and with directivity 1

PV installation integration



Smart energy management



Made by Keyter 16

PACIFICA *Euro*

KWE Euro model			2036	2046	2052	2065	5070	5080	5090	5100	5120	6130	6140
COOLING ONLY VERSION (R)													
Cooling capacity	Cooling power (1)	kW	34,3	45,4	50,9	60,3	65,7	76,2	84,4	99,3	108,4	118,1	126,3
		TR	10,0	13,0	14,5	17,5	19,0	22,0	24,0	28,5	31,0	34,0	36,0
		kBTU/h	120	156	174	210	228	264	288	342	372	408	432
	Absorbed power (2)	kW	10,0	12,1	14,1	19,7	21,2	22,1	24,8	29,0	33,7	38,1	42,5
	EER (3)	kW/kW	3,4	3,7	3,6	3,1	3,1	3,5	3,4	3,4	3,2	3,1	3,0
		BTU/(h*W)	12,0	12,9	12,4	10,7	10,7	12,0	11,6	11,8	11,0	10,7	10,2
	SEER (4)	kWh/kWh	5,0	5,3	5,2	4,8	5,1	5,0	5,1	5,3	5,3	5,1	5,0
	ηs,c (4) (5)	%	197%	209%	205%	189%	200%	197%	199%	207%	208%	200%	197%
	SEPR (7°C) (4) (6)	kWh/kWh	6,1	6,4	6,3	5,9	6,2	6,1	6,2	6,4	6,4	6,2	6,1
	SEPR (-8°C) (4) (6)	kWh/kWh	4,2	4,5	4,4	4,0	4,3	4,2	4,2	4,4	4,5	4,3	4,2
	IPLV (7)	kW/TR	0,59	0,56	0,57	0,62	0,57	0,60	0,59	0,57	0,56	0,58	0,58
		kBtu/kW*h	19,73	20,78	20,53	18,94	20,63	19,74	20,26	20,93	21,08	20,47	20,15
HEAT PUMP VERSION (I)													
Cooling mode	Cooling power (1)	kW	33,3	44,3	49,4	58,6	63,8	74,1	82,7	98,0	106,9	116,4	124,5
	Absorbed power (2)	kW	10,2	12,3	14,3	20,1	21,6	22,6	25,3	29,8	34,7	39,3	43,9
	EER (3)	W/W	3,3	3,6	3,4	3,0	3,0	3,3	3,3	3,3	3,1	3,0	2,8
	SEER (4)	kWh/kWh	4,8	5,1	5,0	4,6	4,9	4,8	4,9	5,1	5,1	4,9	4,8
	ηs,c (4)	%	190%	201%	197%	181%	192%	190%	193%	200%	201%	193%	189%
	SEPR (7°C) (4)	kWh/kWh	5,9	6,2	6,1	5,7	6,0	6,0	6,0	6,2	6,2	6,0	5,9
	SEPR (-8°C) (4)	kWh/kWh	4,0	4,3	4,2	3,8	4,0	4,0	4,1	4,3	4,3	4,1	4,0
	IPLV (7)	kW/TR	0,62	0,59	0,60	0,65	0,60	0,62	0,60	0,58	0,58	0,60	0,61
		kBtu/kW*h	18,95	19,96	19,70	18,06	19,75	19,07	19,61	20,30	20,46	19,81	19,45
Heating mode	Heating power (8)	kW	38,5	49,9	56,0	67,3	74,3	86,8	97,7	109,8	125,0	133,4	144,1
	Absorbed power (2)	kW	10,9	13,8	15,9	20,5	22,0	27,4	29,5	32,0	36,3	38,5	43,1
	COP (3)	W/W	3,5	3,6	3,5	3,3	3,4	3,2	3,3	3,4	3,4	3,5	3,3
	SCOP, average climate (4)	kWh/kWh	3,8	3,6	3,8	3,7	3,9	3,7	3,8	3,8	3,8	3,5	3,4
	ηs,h, average climate (4) (5)	%	150%	140%	148%	146%	154%	146%	149%	150%	149%	136%	132%
TECHNICAL FEATURES													
Power supply			400V / III / 50HZ with neutral										
Cooling circuit	Refrigerant fluid/GWP	kg CO_2	R410A / 2088										
	No. circuits/compressors		1/2	1/2	1/2	1/2	1/2	1/2	1/2	2/4	2/4	2/4	2/4
	No. power stages		2	2	2	3	2	2	2	4	4	4	4
Hydraulic circuit	Inner water flow rate	m^3/h	5,9	7,8	8,8	10,4	11,3	13,1	14,5	17,1	18,7	20,3	21,8
	Type of heat exchanger		stainless steel brazed plates										
	Ø of hydraulic connections		1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	DN 80	DN 80
	Buffer tank capacity (H)	litres	200	200	200	200	200	200	200	200	200	375	375
Outdoor fan	Outdoor airflow	m^3/h	22000	22000	22000	22000	44000	44000	44000	44000	44000	44000	44000
	Number of fans		1	1	1	1	2	2	2	2	2	2	2
	Ø and type of fan	mm	800 EC	800 EC	800 EC	800EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC
Equipment sound pressure (Lp10) (9)		dB(A)	53	53	54	55	57	57	58	58	58	59	60
Weights (S version)	Empty weight	kg	464	517	544	552	1004	1017	1026	1199	1199	1369	1383
	In-service weight	kg	478	533	561	570	1021	1035	1046	1224	1224	1395	1410

(1) Nominal cooling capacity for a water inlet/outlet temp. of 12/7°C and outdoor air temp. of 35°C. Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10E-4 ($m^2 \cdot K / W$)
(2) Nominal power input by compressors and outdoor fans
(3) EER and COP calculated based on standard EN: 14511-2018
(4) Seasonal Efficiency calculated based on standard EN 14825:2018. For heating, the seasonal coefficient of performance (SCOP) and seasonal energy efficiency for heating (Πs, h) are calculated for low temperature and average climate applications
(5) Πs, c values in accordance with Ecodesign Regulation EU 2016/2281 for comfort applications. Πs, h values in accordance with the ecodesign, by virtue of Regulation EU 813/2013 for heat pump applications

Dimensions versions S & P		Series 2	Series 5	Series 61	Series 62	Series 63
L	(mm)	1350	2420	3515	4415	5340
W	(mm)	1100	1100	1100	1100	1100
H	(mm)	2345	2345	2020	2020	2295

PACIFICA *Euro*

KWE Euro model			6150	6160	6170	6180	6200	6210	6240	6270	6300	6340	6380
COOLING ONLY VERSION (R)													
Cooling capacity	Cooling power (1)	kW	135,2	143,5	151,2	158,2	164,2	189,7	215,3	238,1	265,1	292,3	321,4
		TR	38,5	41,0	43,0	45,0	47,0	54,0	61,5	68,0	75,5	83,5	91,5
		kBTU/h	462	492	516	540	564	648	738	816	906	1002	1098
	Absorbed power (2)	kW	43,6	44,7	48,8	53,0	52,5	56,9	64,8	72,9	82,3	95,0	107,6
	EER (3)	kW/kW	3,1	3,2	3,1	3,0	3,1	3,3	3,3	3,3	3,2	3,1	3,0
		BTU/(h*W)	10,6	11,0	10,6	10,2	10,7	11,4	11,4	11,2	11,0	10,5	10,2
	SEER (4)	kWh/kWh	5,1	5,2	5,0	4,9	5,0	5,4	5,4	5,3	5,2	5,1	5,0
	ηs,c (4) (5)	%	201%	205%	199%	193%	196%	211%	212%	210%	205%	200%	198%
	SEPR (7°C) (4) (6)	kWh/kWh	6,2	6,3	6,2	6,0	6,1	6,5	6,5	6,4	6,3	6,2	6,1
	SEPR (-8°C) (4) (6)	kWh/kWh	4,3	4,4	4,2	4,1	4,2	4,5	4,6	4,5	4,4	4,3	4,2
	IPLV (7)	kW/TR	0,58	0,57	0,59	0,60	0,59	0,55	0,56	0,56	0,58	0,59	0,60
		kBtu/kW*h	20,48	20,73	20,15	19,59	20,11	21,36	21,23	20,95	20,44	20,02	19,76
HEAT PUMP VERSION (I)													
Cooling mode	Cooling power (1)	kW	133,3	141,5	-	-	162,1	187,2	212,5	-	-	-	-
	Absorbed power (2)	kW	44,9	46,0	-	-	53,9	58,4	66,6	-	-	-	-
	EER (3)	W/W	3,0	3,1	-	-	3,0	3,2	3,2	-	-	-	-
	SEER (4)	kWh/kWh	4,9	5,0	-	-	4,8	5,2	5,2	-	-	-	-
	ηs,c (4)	%	195%	199%	-	-	189%	204%	205%	-	-	-	-
	SEPR (7°C) (4)	kWh/kWh	6,1	6,2	-	-	5,9	6,3	6,3	-	-	-	-
	SEPR (-8°C) (4)	kWh/kWh	4,1	4,2	-	-	4,0	4,4	4,4	-	-	-	-
	IPLV (7)	kW/TR	0,59	0,59	-	-	0,61	0,57	0,57	-	-	-	-
		kBtu/kW*h	19,84	20,14	-	-	19,36	20,66	20,61	-	-	-	-
Heating mode	Heating power (8)	kW	153,0	162,0	-	-	180,2	209,2	236,2	-	-	-	-
	Absorbed power (2)	kW	44,0	44,9	-	-	50,2	58,2	65,0	-	-	-	-
	COP (3)	W/W	3,5	3,6	-	-	3,6	3,6	3,6	-	-	-	-
	SCOP, average climate (4)	kWh/kWh	3,5	3,6	-	-	3,5	3,6	3,5	-	-	-	-
	ηs,h,average climate (4) (5)	%	137%	141%	-	-	138%	139%	137%	-	-	-	-
TECHNICAL FEATURES													
Power supply			400V / III / 50HZ with neutral										
Cooling circuit	Refrigerant fluid/GWP	kg CO_2	R410A / 2088										
	No. circuits/compressors		2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4
	No. power stages		4	4	4	4	4	4	4	4	4	4	4
Hydraulic circuit	Inner water flow rate	m^3/h	23,3	24,7	26,0	27,3	28,3	32,7	37,1	41,0	45,7	50,4	55,4
	Type of heat exchanger		stainless steel brazed plates										
	Ø of hydraulic connections		DN 80	DN 80	DN 80	DN 80	DN 80	DN 80	DN 80	DN 80	DN 100	DN 100	DN 100
	Buffer tank capacity (H)	litres	375	375	375	375	375	375	375	375	375	375	375
Outdoor fan	Outdoor airflow	m^3/h	44000	44000	44000	44000	66000	66000	66000	66000	88000	88000	88000
	Number of fans		2	2	2	2	3	3	3	3	4	4	4
	Ø and type of fan	mm	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC	800 EC
Equipment sound pressure (Lp10) (9)		dB(A)	60	60	60	60	62	63	63	63	65	65	65
Weights (S version)	Empty weight	kg	1383	1383	1307	1326	1650	1772	1889	1910	1971	2051	2148
	In-service weight	kg	1410	1411	1336	1356	1686	1808	1926	1948	2013	2095	2193

(6) Seasonal Energy Performance Ratio (SEPR) values for chillers for high-temperature processes (12/7°C) in line with Ecodesign Regulation EU 2016/2281. Seasonal Energy Performance Ratio (SEPR) values for chillers for medium-temperature processes (-2/-8°C) in line with Ecodesign Regulation EU 2015/1095

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

(8) Nominal heating capacity for a water inlet/outlet temp. of 40/45°C and outdoor air temp. of 7°C DB/6°C WB. Capacities calculated with a fouling factor in the plate heat exchanger of 0.43·10E-4 ($m^2 \cdot K / W$)

(9) Sound pressure level in dB(A) measured in a free field at 10 m from the source and with directivity 1

Dimensions H version		Series 2	Series 5	Series 61	Series 62	Series 63
L	(mm)	1850	3020	4625	5525	6450
W	(mm)	1100	1100	1100	1100	1100
H	(mm)	2345	2345	2020	2020	2295

Dimensions J version		Series 2	Series 5
L	(mm)	2100	3270
W	(mm)	1100	1100
H	(mm)	2345	2345