

Subtype HITECSA PBM3-i 20

Certificate Holder	HIPLUS AIRE ACONDICIONADO SL
Address	Calle Masía Torrents 2
ZIP	08800
City	Vilanova i la Geltrú (Barcelona)
Country	ES
Certification Body	Kiwa Nederland B.V.
Subtype title	HITECSA PBM3-i 20
Registration number	007-DP0192
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	4.8 kg
Certification Date	09.04.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v14)

Model PBM3-i 20

Model name	PBM3-i 20
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	21.22 kW	15.78 kW
El input	4.84 kW	5.48 kW
COP	4.38	2.88

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	6.11 kW	4.31 kW
Cooling capacity	20.04	21.31
EER	3.28	4.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	174 %	130 %
Prated	16.80 kW	13.80 kW
SCOP	4.54	3.31
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	14.44 kW	11.94 kW
COP Tj = -7°C	2.78	1.95
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.53 kW	6.97 kW
COP Tj = +2°C	4.59	3.23
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.86 kW	4.80 kW
COP Tj = +7°C	5.22	4.21
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	6.28 kW	6.10 kW
COP Tj = 12°C	7.76	7.04
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.78 kW	11.63 kW
COP Tj = Tbiv	3.10	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.87 kW	11.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	58 °C	58 °C
Poff	0 W	0 W
PTO	58 W	58 W
PSB	58 W	58 W
PCK	60 W	60 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	2.34 kW
Annual energy consumption Qhe	7847 kWh	8573 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	20.04 kW	21.31 kW
SEER	5.03	7.56
Pdc Tj = 35°C	20.04 kW	21.31 kW
EER Tj = 35°C	3.28	4.95
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	15.79 kW	16.61 kW
EER Tj = 30°C	4.38	6.41
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	9.30 kW	10.22 kW
EER Tj = 25°C	5.64	9.04
Cdc Tj = 25 °C	1.000	1.000
Pdc Tj = 20°C	6.39 kW	7.75 kW
EER Tj = 20°C	7.22	11.09
Cdc Tj = 20 °C	0.900	0.900
Poff	0 W	0 W

PTO	26 W	26 W
PSB	26 W	26 W
PCK	26 W	26 W
Annual energy consumption Qce	12024 kWh	12786 kWh

Model PBM3-i 20 PS

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