

Subtype HITECSA PBM4-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 PBM4-i 20
Registration number	007-DO0196
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	4.45 kg
Certification Date	10.04.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v12)

**Model PBM4-i 20**

Model name	PBM4-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	20.00 kW	20.00 kW
El input	4.36 kW	6.67 kW
COP	4.60	3.00

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	6.06 kW	3.89 kW
Cooling capacity	20.00	20.00
EER	3.31	5.14

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	197 %	151 %
Prated	20.00 kW	20.00 kW
SCOP	5.00	3.86
Tbiv	-10 °C	-7 °C
TOL	-20 °C	-20 °C

Pdh Tj = -7°C	17.52 kW	17.69 kW
COP Tj = -7°C	2.90	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	10.78 kW	10.77 kW
COP Tj = +2°C	5.04	3.85
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.84 kW	6.92 kW
COP Tj = +7°C	6.59	5.26
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.37 kW	7.18 kW
COP Tj = 12°C	8.50	7.10
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	20.00 kW	17.69 kW
COP Tj = Tbiv	2.49	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	20.00 kW	16.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	35 °C	55 °C
Poff	162 W	19 W
PTO	162 W	122 W
PSB	162 W	19 W
PCK	0 W	158 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	3.62 kW
Annual energy consumption Qhe	8265 kWh	10718 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	20.00 kW	20.00 kW
SEER	5.29	5.29
Pdc Tj = 35°C	20.00 kW	20.00 kW
EER Tj = 35°C	3.31	5.14
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	14.74 kW	14.74 kW
EER Tj = 30°C	4.73	6.52
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	9.47 kW	9.71 kW
EER Tj = 25°C	6.63	6.80
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	6.76 kW	7.50 kW
EER Tj = 20°C	8.14	7.10
Cdc Tj = 20 °C	0.900	0.900
Poff	0 W	0 W

PTO	166 W	200 W
PSB	166 W	166 W
PCK	0 W	0 W
Annual energy consumption Qce	2270 kWh	2201 kWh

**Model PBM4-i 20 PS**

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Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
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