

## Subtype HITECSA PBM3-i 33

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 33
Registration number	007-DP0194
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	5.6 kg
Certification Date	09.04.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v14)

## Model PBM3-i 33

Model name	PBM3-i 33
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	33.36 kW	24.12 kW
El input	7.57 kW	8.04 kW
COP	4.40	3.00

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	8.28 kW	6.90 kW
Cooling capacity	26.50	29.00
EER	3.20	4.20

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	190 %	140 %
Prated	23.20 kW	18.88 kW
SCOP	4.84	3.58
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	20.35 kW	16.64 kW
COP Tj = -7°C	2.86	2.18
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	12.38 kW	11.04 kW
COP Tj = +2°C	5.15	3.75
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.82 kW	8.50 kW
COP Tj = +7°C	5.94	4.56
Cdh Tj = +7 °C	1.000	0.900
Pdh Tj = 12°C	10.71 kW	10.56 kW
COP Tj = 12°C	8.56	6.85
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	19.77 kW	15.51 kW
COP Tj = Tbiv	3.13	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.27 kW	17.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °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	1.47 kW
Annual energy consumption Qhe	9919 kWh	10864 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	26.50 kW	29.00 kW
SEER	5.10	6.57
Pdc Tj = 35°C	26.50 kW	29.00 kW
EER Tj = 35°C	3.20	4.20
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	19.00 kW	23.13 kW
EER Tj = 30°C	4.24	5.50
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	12.00 kW	14.04 kW
EER Tj = 25°C	6.00	7.30
Cdc Tj = 25 °C	1.000	1.000
Pdc Tj = 20°C	8.50 kW	10.20 kW
EER Tj = 20°C	7.00	10.20
Cdc Tj = 20 °C	0.900	0.900
Poff	0 W	0 W

PTO	28 W	28 W
PSB	28 W	28 W
PCK	28 W	28 W
Annual energy consumption Qce	15900 kWh	17400 kWh

Model PBM3-i 33 PS		
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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	n/a	
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
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Pdc Tj = 20°C	8.50 kW	10.20 kW
EER Tj = 20°C	7.00	10.20
Cdc Tj = 20 °C	0.900	0.900
Poff	0 W	0 W

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