

Subtype DAITSU MONOBLOC 3D SMART 45

Certificate Holder	Eurofred S.A.
Address	Marqués de Sentmenat, 97
ZIP	08029
City	Barcelona
Country	ES
Certification Body	BRE Global Limited
Subtype title	DAITSU MONOBLOC 3D SMART 45
Registration number	041-K010-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.2 kg
Certification Date	08.03.2021
Testing basis	Heat Pump Keymark Scheme Rules Rev 08

Model AOWD-MB SMART-45K + WITD-AQUATANK MB-300-2

Model name	AOWD-MB SMART-45K + WITD-AQUATANK MB-300-2
Application	Heating + DHW
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.11.2025

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	110 %
COP	2.62
Heating up time	1:52 h:min
Standby power input	62.6 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	372 l

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	13.50 kW	
El input	5.19 kW	
COP	2.60	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	127 %	
Prated	11.00 kW	

SCOP	3.25
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	10.34 kW
COP Tj = -7°C	2.13
Cdh Tj = -7 °C	0.980
Pdh Tj = +2°C	6.00 kW
COP Tj = +2°C	3.15
Cdh Tj = +2 °C	0.980
Pdh Tj = +7°C	5.76 kW
COP Tj = +7°C	4.24
Cdh Tj = +7 °C	0.980
Pdh Tj = 12°C	6.36 kW
COP Tj = 12°C	5.06
Cdh Tj = +12 °C	0.980
Pdh Tj = Tbiv	10.34 kW
COP Tj = Tbiv	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.78
WTOL	55 °C
Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.59 kW
Annual energy consumption Qhe	6993 kWh

Model AOWD-MB SMART-45TK + WITD-AQUATANK MB-300-3

Model name	AOWD-MB SMART-45TK + WITD-AQUATANK MB-300-3
Application	Heating + DHW
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a
Phase-out Date	30.11.2025

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	110 %
COP	2.62
Heating up time	1:52 h:min
Standby power input	62.6 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	372 l

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	13.50 kW	
El input	5.19 kW	
COP	2.60	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	127 %	
Prated	11.00 kW	

SCOP	3.25
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	10.34 kW
COP Tj = -7°C	2.13
Cdh Tj = -7 °C	0.980
Pdh Tj = +2°C	6.00 kW
COP Tj = +2°C	3.15
Cdh Tj = +2 °C	0.980
Pdh Tj = +7°C	5.76 kW
COP Tj = +7°C	4.24
Cdh Tj = +7 °C	0.980
Pdh Tj = 12°C	6.36 kW
COP Tj = 12°C	5.06
Cdh Tj = +12 °C	0.980
Pdh Tj = Tbiv	10.34 kW
COP Tj = Tbiv	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.78
WTOL	55 °C
Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.59 kW
Annual energy consumption Qhe	6993 kWh