

Subtype MONOBLOC ACTIVE AOWD 10

Certificate Holder	Eurofred S.A.
Address	Marqués de Sentmenat, 97
ZIP	08029
City	Barcelona
Country	ES
Certification Body	BRE Global Limited
Subtype title	MONOBLOC ACTIVE AOWD 10
Registration number	041-K010-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.85 kg
Certification Date	04.07.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model AOWD-MB-AT10T**

Model name	AOWD-MB-AT10T
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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	10.00 kW	10.32 kW
El input	2.01 kW	3.13 kW
COP	4.99	3.30

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	58 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	194 %	148 %
Prated	9.29 kW	9.24 kW
SCOP	4.92	3.78
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.22 kW	8.17 kW
COP Tj = -7°C	3.17	2.58
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.04 kW	4.98 kW
COP Tj = +2°C	4.85	3.62
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.72 kW	5.56 kW

COP Tj = +7°C	6.11	4.67
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.23 kW	6.08 kW
COP Tj = 12°C	7.59	6.16
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.22 kW	8.17 kW
COP Tj = Tbiv	3.17	2.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.39 kW	8.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	64 W	64 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.29 kW
Annual energy consumption Qhe	3903 kWh	5052 kWh

**Model AOWD-MB-AT10**

Model name	AOWD-MB-AT10
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 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	10.92 kW	10.36 kW
El input	2.08 kW	3.38 kW
COP	5.26	3.07

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	57 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	193 %	147 %
Prated	9.46 kW	9.02 kW
SCOP	4.90	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.37 kW	7.98 kW
COP Tj = -7°C	3.20	2.38
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.23 kW	4.90 kW
COP Tj = +2°C	4.82	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.76 kW	5.73 kW

COP Tj = +7°C	6.09	4.84
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.25 kW	6.11 kW
COP Tj = 12°C	7.52	6.08
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.37 kW	7.98 kW
COP Tj = Tbiv	3.20	2.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.47 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	9 W	9 W
PSB	9 W	9 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.02 kW
Annual energy consumption Qhe	3988 kWh	4959 kWh