

Subtype X-Force 12 kW T

Certificate Holder	INVENTOR A.G. SINGLE MEMBER ELECTRIC APPLIANCES S.A.
Address	2 Thoukididou str. & 24th km National Road Athens - Lamia
ZIP	14565
City	Agios Stefanos
Country	GR
Certification Body	BRE Global Limited
Subtype title	X-Force 12 kW T
Registration number	041-K014-12
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.32 kg
Certification Date	06.02.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

Model XFM*12T*

Model name	XFM*12T*
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	12.15 kW	12.34 kW
El input	2.72 kW	4.28 kW
COP	4.47	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	132 %
Prated	11.31 kW	11.13 kW
SCOP	4.49	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	9.84 kW
COP Tj = -7°C	2.58	2.02
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.10 kW	6.48 kW
COP Tj = +2°C	4.16	3.15
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.30 kW	4.51 kW

COP Tj = +7°C	6.63	4.70
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.14 kW	5.02 kW
COP Tj = 12°C	9.61	7.16
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	10.00 kW	9.84 kW
COP Tj = Tbiv	2.58	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.88 kW	9.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	30 W	30 W
PSB	12 W	12 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.42 kW	1.16 kW
Annual energy consumption Qhe	5201 kWh	6802 kWh