

Subtype X-Force 16 kW T

Certificate Holder	Inventor A.G. 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 16 kW T
Registration number	041-K014-13
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.1 kg
Certification Date	06.02.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

Model XFM*16T*

Model name	XFM*16T*
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	15.92 kW	16.38 kW
El input	3.64 kW	5.89 kW
COP	4.38	2.78

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	129 %
Prated	14.89 kW	12.93 kW
SCOP	4.50	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.18 kW	11.44 kW
COP Tj = -7°C	2.56	1.93
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.02 kW	7.41 kW
COP Tj = +2°C	4.42	3.35
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.90 kW	4.83 kW

COP Tj = +7°C	6.05	4.03
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.33 kW	5.68 kW
COP Tj = 12°C	8.44	5.83
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	13.18 kW	11.44 kW
COP Tj = Tbiv	2.56	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.47 kW	11.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	1.79
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	1.25 kW
Annual energy consumption Qhe	6831 kWh	8097 kWh