

Subtype X-Force 16 kW

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
Registration number	041-K014-07
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.7 kg
Certification Date	19.12.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model XFM*16S*

Model name	XFM*16S*
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	131 %
Prated	15.45 kW	13.03 kW
SCOP	4.55	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.67 kW	11.53 kW
COP Tj = -7°C	2.68	2.02
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.23 kW	7.34 kW
COP Tj = +2°C	4.35	3.12
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.51 kW	4.99 kW
COP Tj = +7°C	6.48	4.66
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.53 kW	6.22 kW
COP Tj = 12°C	9.43	7.41
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	13.67 kW	11.53 kW
COP Tj = Tbiv	2.68	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.13 kW	10.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	98 W	98 W
PTO	98 W	98 W
PSB	98 W	98 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	2.24 kW
Annual energy consumption Qhe	7024 kWh	8023 kWh