

Certificate Holder	Inventor A.G. Electric Appliances S.A.
Address	2 Thoukididou str. & 24th km National Road Athens -
ZIP	14565
City	Agios Stefanos
Country	GR
Certification Body	BRE Global Limited
Subtype title	X-Force 12 kW
Registration number	041-K014-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.75 kg
Certification Date	19.12.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09



Model XFM*12S*		
Model name	XFM*12S*	
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 LAverse Climete		
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	64 dB(A)
EN 14825 Average Climate		
·	Low temperature	Medium temperature
ης	180 %	132 %
Prated	11.28 kW	11.08 kW
SCOP	4.56	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	9.98 kW	9.80 kW
$COP Tj = -7^{\circ}C$	2.54	2.00
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = $+2$ °C	6.30 kW	6.58 kW
$COP Tj = +2^{\circ}C$	4.42	3.27
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7$ °C	4.30 kW	4.24 kW
$COP Tj = +7^{\circ}C$	6.33	4.45
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.32 kW	5.00 kW
COP Tj = 12°C	8.88	6.54
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.98 kW	9.80 kW
COP Tj = Tbiv	2.54	2.00



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.02 kW	9.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	67 °C	67 °C
Poff	7 W	7 W
PTO	19 W	19 W
PSB	7 W	7 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.05 kW
Annual energy consumption Qhe	5112 kWh	6791 kWh