Subtype THERMOR PERFECO S 16

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR PERFECO S 16
Registration number	012-C700260
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	08.03.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 12102:2022
Testing laboratory	ACTA INDUSTRIE - Laboratoire Acoustique et Climatique

Model THERMOR PERFECO S 16

Model name	THERMOR PERFECO S 16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	13.80 kW	10.40 kW
El input	3.12 kW	3.70 kW
COP	4.42	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	166 %	130 %
Prated	13.30 kW	13.30 kW
SCOP	4.21	3.32
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.50 kW	9.50 kW
COP Tj = -7°C	2.73	1.98
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.90 kW	7.20 kW
COP Tj = +2°C	3.96	3.26
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.30 kW	6.40 kW

COP Tj = +7°C	5.86	4.78
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.20 kW	7.50 kW
COP Tj = 12°C	7.40	6.02
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	11.50 kW	10.50 kW
COP Tj = Tbiv	2.73	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.30 kW	8.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	15 W	15 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	4.90 kW
Annual energy consumption Qhe	6522 kWh	8266 kWh