

Subtype THERMOR PERFECO S 18 TRI

Certificate Holder	Groupe Atlantic
Address	44 boulevard des Etats-Unis
ZIP	85000
City	La Roche Sur Yon
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR PERFECO S 18 TRI
Registration number	012-C700263
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

Model THERMOR PERFECO S 18 TRI

Model name	THERMOR PERFECO S 18 TRI
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	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	15.20 kW	13.40 kW
El input	3.70 kW	4.65 kW
COP	4.11	2.88

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
η_s	167 %	131 %
Prated	14.60 kW	14.50 kW
SCOP	4.26	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.90 kW	12.80 kW
COP Tj = -7°C	2.66	2.05
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.90 kW	7.80 kW
COP Tj = +2°C	3.99	3.28
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.30 kW	6.30 kW

COP Tj = +7°C	6.21	4.58
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	7.30 kW	7.40 kW
COP Tj = 12°C	7.82	5.75
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	12.90 kW	12.80 kW
COP Tj = Tbiv	2.66	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.20 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	21 W	21 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.40 kW	3.00 kW
Annual energy consumption Qhe	7081 kWh	8924 kWh