

## Subtype THERMOR PERFECO M 14 and 16

Certificate Holder	Groupe Atlantic
Address	Rue des Fondateurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR PERFECO M 14 and 16
Registration number	012-C700419
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.05 kg
Certification Date	16.09.2025
Testing basis	EN 14511:2022, EN 14825:2022, EN 12102:2022
Testing laboratory	CETIAT, FR

## Model THERMOR PERFECO M 14

Model name	THERMOR PERFECO M 14
Application	Heating (medium temp)
Units	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	11.20 kW	11.93 kW
El input	2.26 kW	3.95 kW
COP	4.95	3.02

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	181 %	139 %
Prated	10.90 kW	10.40 kW
SCOP	4.60	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.20 kW
COP Tj = -7°C	2.76	2.16
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.60 kW
COP Tj = +2°C	4.51	3.43
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.20 kW
COP Tj = +7°C	6.46	4.88

Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	4.90 kW	5.00 kW
COP Tj = 12°C	7.15	6.58
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	9.60 kW	9.20 kW
COP Tj = Tbiv	2.76	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	75 °C	75 °C
Poff	6 W	6 W
PTO	10 W	10 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	2.30 kW
Annual energy consumption Qhe	4897 kWh	6036 kWh

## Model THERMOR PERFECO M 14 TRI

Model name	THERMOR PERFECO M 14 TRI
Application	Heating (medium temp)
Units	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	11.20 kW	11.93 kW
El input	2.26 kW	3.95 kW
COP	4.95	3.02

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	181 %	139 %
Prated	10.90 kW	10.40 kW
SCOP	4.60	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	9.20 kW
COP Tj = -7°C	2.76	2.16
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.60 kW
COP Tj = +2°C	4.51	3.43
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.20 kW
COP Tj = +7°C	6.46	4.88

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Pdh Tj = 12°C	4.90 kW	5.00 kW
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Pdh Tj = Tbiv	9.60 kW	9.20 kW
COP Tj = Tbiv	2.76	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	1.86
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WTOL	75 °C	75 °C
Poff	6 W	6 W
PTO	10 W	10 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	2.30 kW
Annual energy consumption Qhe	4897 kWh	6036 kWh

## Model THERMOR PERFECO M 16

Model name	THERMOR PERFECO M 16
Application	Heating (medium temp)
Units	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	13.74 kW	13.15 kW
El input	2.94 kW	4.33 kW
COP	4.68	3.04

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	139 %
Prated	11.00 kW	10.80 kW
SCOP	4.50	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.70 kW	9.50 kW
COP Tj = -7°C	2.62	2.16
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.80 kW
COP Tj = +2°C	4.46	3.43
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.70 kW	4.20 kW
COP Tj = +7°C	6.26	4.88

Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	4.90 kW	4.90 kW
COP Tj = 12°C	6.93	6.17
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	9.70 kW	9.50 kW
COP Tj = Tbiv	2.62	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.90 kW	8.60 kW
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WTOL	75 °C	75 °C
Poff	6 W	6 W
PTO	10 W	10 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	2.20 kW
Annual energy consumption Qhe	5047 kWh	6287 kWh

## Model THERMOR PERFECO M 16 TRI

Model name	THERMOR PERFECO M 16 TRI
Application	Heating (medium temp)
Units	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

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Pdh Tj = 12°C	4.90 kW	4.90 kW
COP Tj = 12°C	6.93	6.17
Cdh Tj = +12 °C	0.980	0.980
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Supplementary Heater: PSUP	1.10 kW	2.20 kW
Annual energy consumption Qhe	5047 kWh	6287 kWh