

Subtype THERMOR Aérolia 10

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR Aérolia 10
Registration number	012-C700155
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.63 kg
Certification Date	09.12.2022
Testing basis	EN 14511:2018, EN 16147:2017, EN 14825:2016, EN 12102:2017
Testing laboratory	CETIAT, FR

Model THERMOR Aérolia 10

Model name	THERMOR Aérolia 10
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	9.50 kW	9.00 kW
EI input	2.10 kW	3.33 kW
COP	4.50	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	130 %
P _{rated}	8.50 kW	8.20 kW
SCOP	4.53	3.33
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh} T _j = -7°C	7.50 kW	7.30 kW
COP T _j = -7°C	2.98	2.05
C _{dh} T _j = -7 °C	0.990	0.990
P _{dh} T _j = +2°C	4.60 kW	4.40 kW
COP T _j = +2°C	4.46	3.24
C _{dh} T _j = +2 °C	0.980	0.980
P _{dh} T _j = +7°C	3.90 kW	3.50 kW

COP Tj = +7°C	5.89	4.60
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	4.40 kW	4.30 kW
COP Tj = 12°C	7.14	5.97
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.50 kW	7.30 kW
COP Tj = Tbiv	2.98	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.30 kW	7.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	4 W	4 W
PTO	20 W	21 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	3875 kWh	5083 kWh

Model THERMOR Aérolia Duo 10

Model name	THERMOR Aérolia Duo 10
Application	Heating + DHW + low 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 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.10
Heating up time	1:15 h:min
Standby power input	35.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	245 l

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

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EN 12102-1 | Average Climate

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EN 14825 | Average Climate

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η_s	178 %	130 %
Prated	8.50 kW	8.20 kW

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Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.30 kW
COP Tj = -7°C	2.98	2.05
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.60 kW	4.40 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.90 kW	3.50 kW
COP Tj = +7°C	5.89	4.60
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	4.40 kW	4.30 kW
COP Tj = 12°C	7.14	5.97
Cdh Tj = +12 °C	0.970	0.970
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