

Subtype NIMBUS/ARIANEXT/AEROTOP/ENERGION 120/150 M - COMPACT

Certificate Holder	Ariston Thermo Group
Address	Viale Aristide Merloni 45
ZIP	I-60044
City	Fabriano (AN)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	NIMBUS/ARIANEXT/AEROTOP/ENERGION 120/150 M - COMPACT
Registration number	ICIM-PDC-000106
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.1 kg
Certification Date	05.07.2022
Testing basis	Heat Pump KEYMARK rev9

Model NIMBUS COMPACT 120 M NET R32

Model name	NIMBUS COMPACT 120 M NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model NIMBUS COMPACT 120 M-T NET R32

Model name	NIMBUS COMPACT 120 M-T NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model NIMBUS COMPACT 150 M NET R32

Model name	NIMBUS COMPACT 150 M NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
Prated	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model NIMBUS COMPACT 150 M-T NET R32

Model name	NIMBUS COMPACT 150 M-T NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model NIMBUS COMPACT 120 M 2Z NET R32

Model name	NIMBUS COMPACT 120 M 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model NIMBUS COMPACT 120 M-T 2Z NET R32

Model name	NIMBUS COMPACT 120 M-T 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model NIMBUS COMPACT 150 M 2Z NET R32

Model name	NIMBUS COMPACT 150 M 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model NIMBUS COMPACT 150 M-T 2Z NET R32

Model name	NIMBUS COMPACT 150 M-T 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model ARIANEXT COMPACT 120 M 2Z LINK R32

Model name	ARIANEXT COMPACT 120 M 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model ARIANEXT COMPACT 120 M LINK R32

Model name	ARIANEXT COMPACT 120 M LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model ARIANEXT COMPACT 120 M-T 2Z LINK R32

Model name	ARIANEXT COMPACT 120 M-T 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model ARIANEXT COMPACT 120 M-T LINK R32

Model name	ARIANEXT COMPACT 120 M-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model ARIANEXT COMPACT 150 M 2Z LINK R32

Model name	ARIANEXT COMPACT 150 M 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model ARIANEXT COMPACT 150 M LINK R32

Model name	ARIANEXT COMPACT 150 M LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model ARIANEXT COMPACT 150 M-T 2Z LINK R32

Model name	ARIANEXT COMPACT 150 M-T 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
Prated	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model ARIANEXT COMPACT 150 M-T LINK R32

Model name	ARIANEXT COMPACT 150 M-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model AEROTOP MONO 12.2 M-CRX 2Z

Model name	AEROTOP MONO 12.2 M-CRX 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model AEROTOP MONO 12.2 M-CRX 1Z

Model name	AEROTOP MONO 12.2 M-CRX 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model AEROTOP MONO 12.2 M-CR 2Z

Model name	AEROTOP MONO 12.2 M-CR 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η _s	204 %	143 %
Prated	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model AEROTOP MONO 12.2 M-CR 1Z

Model name	AEROTOP MONO 12.2 M-CR 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model AEROTOP MONO 15.2 M-CRX 2Z

Model name	AEROTOP MONO 15.2 M-CRX 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model AEROTOP MONO 15.2 M-CRX 1Z

Model name	AEROTOP MONO 15.2 M-CRX 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model AEROTOP MONO 15.2 M-CR 2Z

Model name	AEROTOP MONO 15.2 M-CR 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model AEROTOP MONO 15.2 M-CR 1Z

Model name	AEROTOP MONO 15.2 M-CR 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
Prated	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model ENERGION M COMPACT 120 T 2Z

Model name	ENERGION M COMPACT 120 T 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model ENERGION M COMPACT 120 T

Model name	ENERGION M COMPACT 120 T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model ENERGION M COMPACT 150 T 2Z

Model name	ENERGION M COMPACT 150 T 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model ENERGION M COMPACT 150 T

Model name	ENERGION M COMPACT 150 T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model AEROTOP MONO 12.2 M-C2R

Model name	AEROTOP MONO 12.2 M-C2R
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model AEROTOP MONO 15.2 M-C2R

Model name	AEROTOP MONO 15.2 M-C2R
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η _s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model NIMBUS COMPACT-UK 120 M NET R32

Model name	NIMBUS COMPACT-UK 120 M NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model NIMBUS COMPACT-UK 120 M T NET R32

Model name	NIMBUS COMPACT-UK 120 M T NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	12.00 kW	7.67 kW
El input	2.45 kW	2.39 kW
COP	4.90	3.21

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.87 kW	
Cooling capacity	9.05	
EER	3.15	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	10.84 kW	9.42 kW
η_s	204 %	143 %
P _{rated}	10.84 kW	9.42 kW
SCOP	5.16	3.65
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.59 kW	8.33 kW
COP T _j = -7°C	3.42	2.43
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.74 kW	5.47 kW
COP T _j = +2°C	5.10	3.33
C _{dh} T _j = +2 °C	0.988	0.992
P _{dh} T _j = +7°C	4.16 kW	3.98 kW
COP T _j = +7°C	6.88	5.04
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.71 kW	4.75 kW
COP T _j = 12°C	8.66	6.86
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.59 kW	8.33 kW
COP T _j = T _{biv}	3.42	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.11 kW	8.68 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.09	2.11
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.73 kW	0.74 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4338 kWh	5335 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		

	Low temperature	Medium temperature
P _{designh}	15.33 kW	14.18 kW
η _s	160 %	129 %
Prated	15.33 kW	14.18 kW
SCOP	4.07	3.30
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.28 kW	8.58 kW
COP T _j = -7°C	3.74	2.94
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.68 kW	5.42 kW
COP T _j = +2°C	5.38	4.26
C _{dh} T _j = +2 °C	0.987	0.989
P _{dh} T _j = +7°C	4.20 kW	4.09 kW
COP T _j = +7°C	7.39	5.83
C _{dh} T _j = +7 °C	0.976	0.981
P _{dh} T _j = 12°C	4.70 kW	4.72 kW
COP T _j = 12°C	8.75	7.21
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	9.28 kW	8.58 kW
COP T _j = T _{biv}	3.74	2.94
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.41 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.26	1.49
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.53 kW	13.43 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	9289 kWh	10591 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.83 kW	6.46 kW
η _s	262 %	178 %

Prated	6.83 kW	6.46 kW
SCOP	6.62	4.51
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.83 kW	6.46 kW
COP Tj = +2°C	4.37	2.72
Cdh Tj = +2 °C	0.991	0.994
Pdh Tj = +7°C	4.48 kW	4.39 kW
COP Tj = +7°C	5.96	3.77
Cdh Tj = +7 °C	0.982	0.988
Pdh Tj = 12°C	4.72 kW	4.65 kW
COP Tj = 12°C	8.22	6.02
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	6.83 kW	6.46 kW
COP Tj = Tbiv	4.37	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.83 kW	6.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.994
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1378 kWh	1912 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	5.40	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	6.86 kW	
EER Tj = 30°C	4.72	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.31 kW	
EER Tj = 25°C	6.14	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	4.45 kW	
EER Tj = 20°C	7.5	
Cdc Tj = 20 °C	0.98	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1541 kWh

Model NIMBUS COMPACT-UK 150 M NET R32

Model name	NIMBUS COMPACT-UK 150 M NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η_s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh

Model NIMBUS COMPACT-UK 150 M T NET R32

Model name	NIMBUS COMPACT-UK 150 M T NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:55 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 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

	Low temperature	Medium temperature
Heat output	15.00 kW	9.50 kW
El input	3.19 kW	3.02 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.75 kW	
Cooling capacity	11	
EER	2.93	4.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)

Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
P _{designh}	12.48 kW	11.59 kW
η_s	202 %	151 %
P _{rated}	12.48 kW	11.59 kW
SCOP	5.12	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.04 kW	10.25 kW
COP T _j = -7°C	3.29	2.50
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.98 kW	6.50 kW
COP T _j = +2°C	4.92	3.67
C _{dh} T _j = +2 °C	0.990	0.992
P _{dh} T _j = +7°C	4.39 kW	3.96 kW
COP T _j = +7°C	6.76	5.04
C _{dh} T _j = +7 °C	0.979	0.983
P _{dh} T _j = 12°C	4.71 kW	4.69 kW
COP T _j = 12°C	8.55	6.97
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	11.04 kW	10.25 kW
COP T _j = T _{biv}	3.29	2.50
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.18 kW	10.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.00	2.06
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.07 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5035 kWh	6217 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature

Pdesignh	18.17 kW	17.31 kW
η_s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.48 kW
COP Tj = -7°C	3.57	2.91
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.88 kW	6.45 kW
COP Tj = +2°C	5.36	4.22
Cdh Tj = +2 °C	0.989	0.991
Pdh Tj = +7°C	4.43 kW	4.27 kW
COP Tj = +7°C	7.25	5.79
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	4.71 kW	4.60 kW
COP Tj = 12°C	8.53	7.20
Cdh Tj = +12 °C	0.975	0.979
Pdh Tj = Tbiv	11.00 kW	10.48 kW
COP Tj = Tbiv	3.57	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.74 kW	8.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	11230 kWh	13042 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.01 kW	7.50 kW
η_s	258 %	181 %
Prated	8.01 kW	7.50 kW

SCOP	6.53	4.61
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.01 kW	7.50 kW
COP Tj = +2°C	4.27	2.77
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.33 kW	4.85 kW
COP Tj = +7°C	5.81	3.84
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.72 kW	4.61 kW
COP Tj = 12°C	8.10	6.12
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	8.01 kW	7.50 kW
COP Tj = Tbiv	4.27	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.01 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.27	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.982
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1638 kWh	2172 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11 kW	
SEER	5.22	
Pdc Tj = 35°C	11 kW	
EER Tj = 35°C	2.93	
Pdc Tj = 30°C	8.18 kW	
EER Tj = 30°C	4.4	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	5.23 kW	
EER Tj = 25°C	5.77	
Cdc Tj = 25 °C	0.99	
Pdc Tj = 20°C	4.5 kW	
EER Tj = 20°C	7.53	
Cdc Tj = 20 °C	0.98	
Poff	14 W	

PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1951 kWh