

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
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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
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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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
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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 %
P _{rated}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
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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
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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
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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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
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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 %
P _{rated}	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
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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-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
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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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
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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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
Prated	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
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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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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
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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
P _{designh}	18.17 kW	17.31 kW
η _s	157 %	122 %
P _{rated}	18.17 kW	17.31 kW
SCOP	3.99	3.12
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.48 kW
COP T _j = -7°C	3.57	2.91
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.88 kW	6.45 kW
COP T _j = +2°C	5.36	4.22
C _{dh} T _j = +2 °C	0.989	0.991
P _{dh} T _j = +7°C	4.43 kW	4.27 kW
COP T _j = +7°C	7.25	5.79
C _{dh} T _j = +7 °C	0.978	0.982
P _{dh} T _j = 12°C	4.71 kW	4.60 kW
COP T _j = 12°C	8.53	7.20
C _{dh} T _j = +12 °C	0.975	0.979
P _{dh} T _j = T _{biv}	11.00 kW	10.48 kW
COP T _j = T _{biv}	3.57	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.74 kW	8.08 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.17	1.48
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	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	17.22 kW	16.40 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	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
P _{designh}	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