

Subtype NIMBUS 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5

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 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5
Registration number	ICIM-PDC-000001
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.88 kg
Certification Date	19.12.2017

Model AEROTOP MONO 05M-RX 1Z

Model name	AEROTOP MONO 05M-RX 1Z
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP MONO 05M-RX 2Z

Model name	AEROTOP MONO 05M-RX 2Z
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP MONO 05M-RXL

Model name	AEROTOP MONO 05M-RXL
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP MONO 05M-X 1Z

Model name	AEROTOP MONO 05M-X 1Z
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP MONO 05M-X 2Z

Model name	AEROTOP MONO 05M-X 2Z
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT LITE 50 M LINK

Model name	ARIANEXT LITE 50 M LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT LITE 50 M

Model name	ARIANEXT LITE 50 M
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M 2Z H LINK

Model name	ARIANEXT PLUS 50 M 2Z H LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M 2Z H

Model name	ARIANEXT PLUS 50 M 2Z H
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M 2Z LINK

Model name	ARIANEXT PLUS 50 M 2Z LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M 2Z

Model name	ARIANEXT PLUS 50 M 2Z
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M H LINK

Model name	ARIANEXT PLUS 50 M H LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M H

Model name	ARIANEXT PLUS 50 M H
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M LINK

Model name	ARIANEXT PLUS 50 M LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT PLUS 50 M

Model name	ARIANEXT PLUS 50 M
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS PLUS 50 M 2Z H NET

Model name	NIMBUS PLUS 50 M 2Z H NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS PLUS 50 M 2Z NET

Model name	NIMBUS PLUS 50 M 2Z NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS PLUS 50 M H NET

Model name	NIMBUS PLUS 50 M H NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS PLUS 50 M NET

Model name	NIMBUS PLUS 50 M NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS POCKET 50 M NET

Model name	NIMBUS POCKET 50 M NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP MONO 05M-CRX 1Z

Model name	AEROTOP MONO 05M-CRX 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model AEROTOP MONO 05M-CRX 2Z

Model name	AEROTOP MONO 05M-CRX 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT COMPACT 50 M 2Z LINK

Model name	ARIANEXT COMPACT 50 M 2Z LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT COMPACT 50 M LINK

Model name	ARIANEXT COMPACT 50 M LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT FLEX 50 M 2Z H LINK

Model name	ARIANEXT FLEX 50 M 2Z H LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT FLEX 50 M 2Z LINK

Model name	ARIANEXT FLEX 50 M 2Z LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT FLEX 50 M H LINK

Model name	ARIANEXT FLEX 50 M H LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT FLEX 50 M LINK

Model name	ARIANEXT FLEX 50 M LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS COMPACT 50 M 2Z NET

Model name	NIMBUS COMPACT 50 M 2Z NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS COMPACT 50 M NET

Model name	NIMBUS COMPACT 50 M NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS FLEX 50 M 2Z H NET

Model name	NIMBUS FLEX 50 M 2Z H NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS FLEX 50 M 2Z NET

Model name	NIMBUS FLEX 50 M 2Z NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS FLEX 50 M H NET

Model name	NIMBUS FLEX 50 M H NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS FLEX 50 M NET

Model name	NIMBUS FLEX 50 M NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT COMPACT 50 M 2Z

Model name	ARIANEXT COMPACT 50 M 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
Prated	5.80 kW	5.86 kW

SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ARIANEXT COMPACT 50 M

Model name	ARIANEXT COMPACT 50 M
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
Prated	5.80 kW	5.86 kW

SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ARIANEXT FLEX 50 M 2Z H

Model name	ARIANEXT FLEX 50 M 2Z H
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
Prated	5.80 kW	5.86 kW

SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ARIANEXT FLEX 50 M 2Z

Model name	ARIANEXT FLEX 50 M 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
Prated	5.80 kW	5.86 kW

SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ARIANEXT FLEX 50 M H

Model name	ARIANEXT FLEX 50 M H
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
Prated	5.80 kW	5.86 kW

SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ARIANEXT FLEX 50 M

Model name	ARIANEXT FLEX 50 M
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
Prated	5.80 kW	5.86 kW

SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ENERGION M PLUS 5

Model name	ENERGION M PLUS 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ENERGION M PLUS 5 2Z

Model name	ENERGION M PLUS 5 2Z
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ENERGION M COMPACT 5

Model name	ENERGION M COMPACT 5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ENERGION M COMPACT 5 2Z

Model name	ENERGION M COMPACT 5 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η_s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ENERGION M FLEX 180 e

Model name	ENERGION M FLEX 180 e
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ENERGION M FLEX 5 2Z 180 e

Model name	ENERGION M FLEX 5 2Z 180 e
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ENERGION M LIGHT 5

Model name	ENERGION M LIGHT 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ENERGION M HYBRIDall 5

Model name	ENERGION M HYBRIDall 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ATAG p ENERGION M HYBRIDzone 5

Model name	ATAG p ENERGION M HYBRIDzone 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ATAG i ENERGION M HYBRIDzone 5

Model name	ATAG i ENERGION M HYBRIDzone 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS M HYBRID 5 NET

Model name	NIMBUS M HYBRID 5 NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS M HYBRID FLEX 5 NET

Model name	NIMBUS M HYBRID FLEX 5 NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model NIMBUS M HYBRID UNIVERSAL 5 NET

Model name	NIMBUS M HYBRID UNIVERSAL 5 NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT M HYBRID 5 LINK

Model name	ARIANEXT M HYBRID 5 LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12 °C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
COP Tj = -7 °C	3.46	2.71
Pdh Tj = +2 °C	2.98 kW	3.17 kW
COP Tj = +2 °C	5.11	3.89
Pdh Tj = +7 °C	1.95 kW	2.03 kW
COP Tj = +7 °C	6.93	4.95
Pdh Tj = 12 °C	1.61 kW	1.60 kW
COP Tj = 12 °C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model ARIANEXT M HYBRID FLEX 5 LINK

Model name	ARIANEXT M HYBRID FLEX 5 LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW
COP T _j = 12°C	7.28	5.40
P _{dh} T _j = T _{biv}	5.13 kW	5.19 kW
COP T _j = T _{biv}	3.15	2.26
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.03 kW	5.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.82	2.14
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Q _{he}	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	8.08 kW	8.58 kW
η _s	151 %	118 %
P _{rated}	8.08 kW	8.58 kW
SCOP	3.85	3.02
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.89 kW	5.19 kW
COP T _j = -7°C	3.46	2.71
P _{dh} T _j = +2°C	2.98 kW	3.17 kW
COP T _j = +2°C	5.11	3.89
P _{dh} T _j = +7°C	1.95 kW	2.03 kW
COP T _j = +7°C	6.93	4.95
P _{dh} T _j = 12°C	1.61 kW	1.60 kW
COP T _j = 12°C	7.88	6.35
P _{dh} T _j = T _{biv}	4.89 kW	5.19 kW
COP T _j = T _{biv}	3.46	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.69 kW	3.18 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.29	1.54
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Q _{he}	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	3.47 kW	2.98 kW
η _s	232 %	151 %

Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Model ARIANEXT M HYBRID UNIVERSAL 5 LINK

Model name	ARIANEXT M HYBRID UNIVERSAL 5 LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP HYBRID MINI EVO 05X

Model name	AEROTOP HYBRID MINI EVO 05X
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP HYBRID MINI EVO 5

Model name	AEROTOP HYBRID MINI EVO 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model AEROTOP HYBRID UNIVERSAL 5

Model name	AEROTOP HYBRID UNIVERSAL 5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
ηs	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_s	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

790 kWh

1035 kWh

Model NIMBUS M FLEX IN 5 NET

Model name	NIMBUS M FLEX IN 5 NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model ARIANEXT M FLEX IN 5 LINK

Model name	ARIANEXT M FLEX IN 5 LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model AEROTOP MONO BUILT-IN 05M-CRX

Model name	AEROTOP MONO BUILT-IN 05M-CRX
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.80 kW	5.86 kW
η _s	176 %	130 %
P _{rated}	5.80 kW	5.86 kW
SCOP	4.47	3.92
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.13 kW	5.19 kW
COP T _j = -7°C	3.15	2.26
P _{dh} T _j = +2°C	3.15 kW	3.17 kW
COP T _j = +2°C	4.42	3.32
P _{dh} T _j = +7°C	2.01 kW	2.14 kW
COP T _j = +7°C	5.28	3.91
P _{dh} T _j = 12°C	1.54 kW	1.50 kW

COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh