

Subtype NIMBUS 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T

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 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T
Registration number	ICIM-PDC-000001
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.77 kg
Certification Date	19.12.2017

Model AEROTOP MONO 07M 1Z

Model name	AEROTOP MONO 07M 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model AEROTOP MONO 07M 2Z

Model name	AEROTOP MONO 07M 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
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Prated	11.85 kW	11.06 kW
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Tbiv	-7 °C	-7 °C
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Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model AEROTOP MONO 07M-R 1Z

Model name	AEROTOP MONO 07M-R 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model AEROTOP MONO 07M-R 2Z

Model name	AEROTOP MONO 07M-R 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
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P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
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COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
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COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model AEROTOP MONO 07M-RL

Model name	AEROTOP MONO 07M-RL
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
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SCOP	4.53	3.27
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TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT LITE 70 M-T LINK

Model name	ARIANEXT LITE 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT LITE 70 M-T

Model name	ARIANEXT LITE 70 M-T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T 2Z H LINK

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T 2Z H

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T 2Z LINK

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T 2Z

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T H LINK

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T H

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T LINK

Model name	ARIANEXT PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT PLUS 70 M-T

Model name	ARIANEXT PLUS 70 M-T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS PLUS 70 M-T 2Z H NET

Model name	NIMBUS PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS PLUS 70 M-T 2Z NET

Model name	NIMBUS PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS PLUS 70 M-T H NET

Model name	NIMBUS PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS PLUS 70 M-T NET

Model name	NIMBUS PLUS 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS POCKET 70 M-T NET

Model name	NIMBUS POCKET 70 M-T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model AEROTOP MONO 07M-CR 1Z

Model name	AEROTOP MONO 07M-CR 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model AEROTOP MONO 07M-CR 2Z

Model name	AEROTOP MONO 07M-CR 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT COMPACT 70 M-T 2Z LINK

Model name	ARIANEXT COMPACT 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT COMPACT 70 M-T LINK

Model name	ARIANEXT COMPACT 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT FLEX 70 M-T 2Z H LINK

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT FLEX 70 M-T 2Z LINK

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT FLEX 70 M-T H LINK

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT FLEX 70 M-T LINK

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model NIMBUS COMPACT 70 M-T 2Z NET

Model name	NIMBUS COMPACT 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model NIMBUS COMPACT 70 M-T NET

Model name	NIMBUS COMPACT 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model NIMBUS FLEX 70 M-T 2Z H NET

Model name	NIMBUS FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model NIMBUS FLEX 70 M-T 2Z NET

Model name	NIMBUS FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model NIMBUS FLEX 70 M-T H NET

Model name	NIMBUS FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model NIMBUS FLEX 70 M-T NET

Model name	NIMBUS FLEX 70 M-T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT COMPACT 70 M-T 2Z

Model name	ARIANEXT COMPACT 70 M-T 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	3x230V 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	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
Prated	7.89 kW	7.45 kW

SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ARIANEXT COMPACT 70 M-T

Model name	ARIANEXT COMPACT 70 M-T
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	3x230V 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	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
Prated	7.89 kW	7.45 kW

SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ARIANEXT FLEX 70 M-T 2Z H

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 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	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
Prated	7.89 kW	7.45 kW

SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ARIANEXT FLEX 70 M-T 2Z

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 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	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
Prated	7.89 kW	7.45 kW

SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ARIANEXT FLEX 70 M-T H

Model name	ARIANEXT FLEX 70 M-T 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	3x230V 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	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
Prated	7.89 kW	7.45 kW

SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ARIANEXT FLEX 70 M-T

Model name	ARIANEXT FLEX 70 M-T
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	3x230V 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	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
Prated	7.89 kW	7.45 kW

SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ENERGION M PLUS 7 T 2Z

Model name	ENERGION M PLUS 7 T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ENERGION M PLUS 7 T

Model name	ENERGION M PLUS 7 T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ENERGION M LIGHT 7 T

Model name	ENERGION M LIGHT 7 T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ENERGION M FLEX 7 T 180 e

Model name	ENERGION M FLEX 7 T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ENERGION M FLEX 7 T 2Z 180 e

Model name	ENERGION M FLEX 7 T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ENERGION M COMPACT 7 T

Model name	ENERGION M COMPACT 7 T
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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ENERGION M COMPACT 7 T 2Z

Model name	ENERGION M COMPACT 7 T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ENERGION M HYBRIDall 7 T

Model name	ENERGION M HYBRIDall 7 T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ATAG p ENERGION M HYBRIDzone 7 T

Model name	ATAG p ENERGION M HYBRIDzone 7 T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ATAG i ENERGION M HYBRIDzone 7 T

Model name	ATAG i ENERGION M HYBRIDzone 7 T
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS M HYBRID UNIVERSAL 7 T NET

Model name	NIMBUS M HYBRID UNIVERSAL 7 T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS M HYBRID 7 T NET

Model name	NIMBUS M HYBRID 7 T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS M HYBRID FLEX 7 T NET

Model name	NIMBUS M HYBRID FLEX 7 T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT M HYBRID 7 T LINK

Model name	ARIANEXT M HYBRID 7 T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model ARIANEXT M HYBRID FLEX 7 T LINK

Model name	ARIANEXT M HYBRID FLEX 7 T 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	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40
P _{dh} T _j = T _{biv}	6.98 kW	6.59 kW
COP T _j = T _{biv}	3.10	2.17
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	2.73 kW	7.06 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Q _{he}	3598 kWh	4706 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	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW
COP T _j = -7°C	3.42	2.62
P _{dh} T _j = +2°C	4.48 kW	4.13 kW
COP T _j = +2°C	5.36	3.95
P _{dh} T _j = +7°C	2.90 kW	2.76 kW
COP T _j = +7°C	6.56	5.13
P _{dh} T _j = 12°C	2.72 kW	2.68 kW
COP T _j = 12°C	7.43	6.26
P _{dh} T _j = T _{biv}	7.17 kW	6.70 kW
COP T _j = T _{biv}	3.42	2.62
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.51 kW	4.90 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.38 kW
η _s	223 %	150 %

Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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	1148 kWh	1524 kWh

Model ARIANEXT M HYBRID UNIVERSAL 7 T LINK

Model name	ARIANEXT M HYBRID UNIVERSAL 7 T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model AEROTOP HYBRID MINI EVO 07

Model name	AEROTOP HYBRID MINI EVO 07
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12 °C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	7.17 kW	6.70 kW
COP Tj = -7 °C	3.42	2.62
Pdh Tj = +2 °C	4.48 kW	4.13 kW
COP Tj = +2 °C	5.36	3.95
Pdh Tj = +7 °C	2.90 kW	2.76 kW
COP Tj = +7 °C	6.56	5.13
Pdh Tj = 12 °C	2.72 kW	2.68 kW
COP Tj = 12 °C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51

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	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
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}

1148 kWh

1524 kWh

Model NIMBUS M FLEX IN 7 NET

Model name	NIMBUS M FLEX IN 7 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.30 kW	0.40 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model ARIANEXT M FLEX IN 7 T LINK

Model name	ARIANEXT M FLEX IN 7 T 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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.30 kW	0.40 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Model AEROTOP MONO BUILT-IN 07M-CR

Model name	AEROTOP MONO BUILT-IN 07M-CR
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	3x230V 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η _s	178 %	128 %
P _{rated}	7.89 kW	7.45 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
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	0.30 kW	0.40 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh