

## 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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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## 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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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
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**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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 $\eta_{DHW}$	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.60 kW	2.54 kW
COP T <sub>j</sub> = 12°C	6.87	5.40
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.98 kW	6.59 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.73 kW	7.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.77	1.95
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	11.85 kW	11.06 kW
η <sub>s</sub>	152 %	118 %
P <sub>rated</sub>	11.85 kW	11.06 kW
SCOP	3.87	3.03
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.17 kW	6.70 kW
COP T <sub>j</sub> = -7°C	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.48 kW	4.13 kW
COP T <sub>j</sub> = +2°C	5.36	3.95
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.90 kW	2.76 kW
COP T <sub>j</sub> = +7°C	6.56	5.13
P <sub>dh</sub> T <sub>j</sub> = 12°C	2.72 kW	2.68 kW
COP T <sub>j</sub> = 12°C	7.43	6.26
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.17 kW	6.70 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.42	2.62
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.51 kW	4.90 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.22	1.51
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	60 °C	60 °C
P <sub>off</sub>	13 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 <sub>he</sub>	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 <sub>designh</sub>	4.85 kW	4.38 kW
η <sub>s</sub>	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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
$\eta_s$	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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
$\eta_s$	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

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**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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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 <sub>designh</sub>	7.89 kW	7.45 kW
η <sub>s</sub>	178 %	128 %
P <sub>rated</sub>	7.89 kW	7.45 kW
SCOP	4.53	3.27
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	6.98 kW	6.59 kW
COP T <sub>j</sub> = -7°C	3.10	2.17
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.31 kW	4.18 kW
COP T <sub>j</sub> = +2°C	4.59	3.30
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.76 kW	2.58 kW
COP T <sub>j</sub> = +7°C	5.30	3.87
P <sub>dh</sub> T <sub>j</sub> = 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