

Subtype NIMBUS 70 S-T - ARIANEXT 70 S-T - AEROTOP SPLIT 07

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 S-T - ARIANEXT 70 S-T - AEROTOP SPLIT 07
Registration number	ICIM-PDC-000001
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.08 kg
Certification Date	19.12.2017

Model AEROTOP SPLIT 07M-R

Model name	AEROTOP SPLIT 07M-R
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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW

COP Tj = 12°C	8.04	6.31
Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
ηs	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
COP Tj = +7°C	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.40 kW
η_s	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1098 kWh

1507 kWh

Model ARIANEXT PLUS 70 S-T LINK

Model name	ARIANEXT PLUS 70 S-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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW

COP Tj = 12°C	8.04	6.31
Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
ηs	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
COP Tj = +7°C	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.40 kW
η_s	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1098 kWh

1507 kWh

Model ARIANEXT PLUS 70 S-T

Model name	ARIANEXT PLUS 70 S-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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW

COP Tj = 12°C	8.04	6.31
Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
ηs	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
COP Tj = +7°C	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.40 kW
η_s	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1098 kWh

1507 kWh

Model NIMBUS PLUS 70 S-T NET

Model name	NIMBUS PLUS 70 S-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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW

COP Tj = 12°C	8.04	6.31
Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.75 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Qhe	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	11.71 kW	11.02 kW
ηs	151 %	118 %
Prated	11.71 kW	11.02 kW
SCOP	3.86	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.09 kW	6.67 kW
COP Tj = -7°C	3.42	2.67
Pdh Tj = +2°C	4.41 kW	4.04 kW
COP Tj = +2°C	5.27	3.88
Pdh Tj = +7°C	2.89 kW	2.66 kW
COP Tj = +7°C	6.51	5.10
Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
Pdh Tj = Tbiv	7.09 kW	6.67 kW
COP Tj = Tbiv	3.42	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.52 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.52

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.40 kW
η_s	233 %	153 %
Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1098 kWh

1507 kWh

Model AEROTOP SPLIT 07M-CR

Model name	AEROTOP SPLIT 07M-CR
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:30 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	247 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	244 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	245 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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW
COP T _j = 12°C	8.04	6.31
P _{dh} T _j = T _{biv}	6.97 kW	6.80 kW
COP T _j = T _{biv}	3.13	2.22
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.70 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.86
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Q _{he}	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η _s	151 %	118 %
P _{rated}	11.71 kW	11.02 kW
SCOP	3.86	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.09 kW	6.67 kW
COP T _j = -7°C	3.42	2.67
P _{dh} T _j = +2°C	4.41 kW	4.04 kW
COP T _j = +2°C	5.27	3.88
P _{dh} T _j = +7°C	2.89 kW	2.66 kW
COP T _j = +7°C	6.51	5.10
P _{dh} T _j = 12°C	2.73 kW	2.69 kW
COP T _j = 12°C	8.04	6.78
P _{dh} T _j = T _{biv}	7.09 kW	6.67 kW
COP T _j = T _{biv}	3.42	2.67
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.52 kW	4.91 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.23	1.52
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.40 kW
η _s	233 %	153 %

Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

Model NIMBUS COMPACT 70 S-T NET

Model name	NIMBUS COMPACT 70 S-T NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:30 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	247 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	244 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	245 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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW
COP T _j = 12°C	8.04	6.31
P _{dh} T _j = T _{biv}	6.97 kW	6.80 kW
COP T _j = T _{biv}	3.13	2.22
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.70 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.86
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Q _{he}	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η _s	151 %	118 %
P _{rated}	11.71 kW	11.02 kW
SCOP	3.86	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.09 kW	6.67 kW
COP T _j = -7°C	3.42	2.67
P _{dh} T _j = +2°C	4.41 kW	4.04 kW
COP T _j = +2°C	5.27	3.88
P _{dh} T _j = +7°C	2.89 kW	2.66 kW
COP T _j = +7°C	6.51	5.10
P _{dh} T _j = 12°C	2.73 kW	2.69 kW
COP T _j = 12°C	8.04	6.78
P _{dh} T _j = T _{biv}	7.09 kW	6.67 kW
COP T _j = T _{biv}	3.42	2.67
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.52 kW	4.91 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.23	1.52
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.40 kW
η _s	233 %	153 %

Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh

Model NIMBUS FLEX 70 S-T NET

Model name	NIMBUS FLEX 70 S-T NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.60
Heating up time	01:30 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	247 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	93 %
COP	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	244 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	118 %
COP	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	245 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	5.78 kW
El input	1.28 kW	1.96 kW
COP	5.00	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η _s	191 %	133 %
P _{rated}	7.88 kW	7.68 kW
SCOP	4.86	3.40
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.97 kW	6.80 kW
COP T _j = -7°C	3.13	2.22
P _{dh} T _j = +2°C	4.35 kW	4.11 kW
COP T _j = +2°C	4.81	3.36
P _{dh} T _j = +7°C	2.87 kW	2.57 kW
COP T _j = +7°C	6.13	4.47
P _{dh} T _j = 12°C	2.73 kW	2.66 kW
COP T _j = 12°C	8.04	6.31
P _{dh} T _j = T _{biv}	6.97 kW	6.80 kW
COP T _j = T _{biv}	3.13	2.22
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.70 kW	6.75 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.86
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	0.93 kW
Annual energy consumption Q _{he}	3352 kWh	4670 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η _s	151 %	118 %
P _{rated}	11.71 kW	11.02 kW
SCOP	3.86	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.09 kW	6.67 kW
COP T _j = -7°C	3.42	2.67
P _{dh} T _j = +2°C	4.41 kW	4.04 kW
COP T _j = +2°C	5.27	3.88
P _{dh} T _j = +7°C	2.89 kW	2.66 kW
COP T _j = +7°C	6.51	5.10
P _{dh} T _j = 12°C	2.73 kW	2.69 kW
COP T _j = 12°C	8.04	6.78
P _{dh} T _j = T _{biv}	7.09 kW	6.67 kW
COP T _j = T _{biv}	3.42	2.67
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.52 kW	4.91 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.23	1.52
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	7482 kWh	8977 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	4.85 kW	4.40 kW
η _s	233 %	153 %

Prated	4.85 kW	4.40 kW
SCOP	5.90	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.40 kW
COP Tj = +2°C	4.16	2.36
Pdh Tj = +7°C	3.26 kW	3.01 kW
COP Tj = +7°C	5.48	3.34
Pdh Tj = 12°C	2.72 kW	2.62 kW
COP Tj = 12°C	7.46	5.50
Pdh Tj = Tbiv	4.85 kW	4.40 kW
COP Tj = Tbiv	4.16	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1098 kWh	1507 kWh