

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	NIMBUS 70 S - ARIANEXT 70 S - AEROTOP SPLIT 07X		Reg. No.	ICIM-PDC-000001
Certificate Holder				
Name	Ariston Thermo Group			
Address	Viale Aristide Merloni 45		Zip	I-60044
City	Fabriano (AN)		Country	Italy
Certification Body	ICIM S.p.A.			
Name of testing laboratory	-Transition Rules-			
Subtype title	NIMBUS 70 S - ARIANEXT 70 S - AEROTOP SPLIT 07X			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	3.08 kg			
Certification Date	19.12.2017			

Model: AEROTOP SPLIT 07M-RX

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

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P _{designh}	4.85 kW	4.40 kW
η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
COP T _j = +7°C	5.48	3.34
P _{dh} T _j = 12°C	2.72 kW	2.62 kW
COP T _j = 12°C	7.46	5.50
P _{dh} T _j = T _{biv}	4.85 kW	4.40 kW
COP T _j = T _{biv}	4.16	2.36
P _{dh} T _j = TOL	4.85 kW	4.40 kW
COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

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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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η_s	151 %	118 %
P _{rated}	4.80 kW	4.40 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.52 kW	4.91 kW
COP Tj = TOL	2.23	1.52
Cdh	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

Model: ARIANEXT PLUS 70 S LINK

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

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	Low temperature	Medium temperature
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Poff	11 W	11 W
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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

Warmer Climate

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WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

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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

Colder Climate

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	Low temperature	Medium temperature
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Pdh Tj = 12°C	2.73 kW	2.69 kW
COP Tj = 12°C	8.04	6.78
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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

Model: ARIANEXT PLUS 70 S

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
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EN 14825

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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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

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η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
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COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

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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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
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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

Model: NIMBUS PLUS 70 S NET

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
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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

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
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EN 14825		
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η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
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PTO	11 W	11 W

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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

Colder Climate

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	Low temperature	Medium temperature
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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

Model: AEROTOP SPLIT 07M-CRX

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.78 kW
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Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
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Average Climate

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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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.40 kW
η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
COP T _j = +7°C	5.48	3.34
P _{dh} T _j = 12°C	2.72 kW	2.62 kW
COP T _j = 12°C	7.46	5.50
P _{dh} T _j = T _{biv}	4.85 kW	4.40 kW
COP T _j = T _{biv}	4.16	2.36
P _{dh} T _j = TOL	4.85 kW	4.40 kW
COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η_s	151 %	118 %
P _{rated}	4.80 kW	4.40 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.52 kW	4.91 kW
COP Tj = TOL	2.23	1.52
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
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

Model: ARIANEXT COMPACT 70 S LINK

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.40 kW
η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
COP T _j = +7°C	5.48	3.34
P _{dh} T _j = 12°C	2.72 kW	2.62 kW
COP T _j = 12°C	7.46	5.50
P _{dh} T _j = T _{biv}	4.85 kW	4.40 kW
COP T _j = T _{biv}	4.16	2.36
P _{dh} T _j = TOL	4.85 kW	4.40 kW
COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η_s	151 %	118 %
P _{rated}	4.80 kW	4.40 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.52 kW	4.91 kW
COP Tj = TOL	2.23	1.52
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
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

Model: ARIANEXT FLEX 70 S LINK

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.40 kW
η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
COP T _j = +7°C	5.48	3.34
P _{dh} T _j = 12°C	2.72 kW	2.62 kW
COP T _j = 12°C	7.46	5.50
P _{dh} T _j = T _{biv}	4.85 kW	4.40 kW
COP T _j = T _{biv}	4.16	2.36
P _{dh} T _j = TOL	4.85 kW	4.40 kW
COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η_s	151 %	118 %
P _{rated}	4.80 kW	4.40 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.52 kW	4.91 kW
COP Tj = TOL	2.23	1.52
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
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

Model: NIMBUS COMPACT 70 S NET

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.40 kW
η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
COP T _j = +7°C	5.48	3.34
P _{dh} T _j = 12°C	2.72 kW	2.62 kW
COP T _j = 12°C	7.46	5.50
P _{dh} T _j = T _{biv}	4.85 kW	4.40 kW
COP T _j = T _{biv}	4.16	2.36
P _{dh} T _j = TOL	4.85 kW	4.40 kW
COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η_s	151 %	118 %
P _{rated}	4.80 kW	4.40 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.52 kW	4.91 kW
COP Tj = TOL	2.23	1.52
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
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

Model: NIMBUS FLEX 70 S NET

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.40 kW
η_s	233 %	153 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.90	3.90
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.40 kW
COP T _j = +2°C	4.16	2.36
P _{dh} T _j = +7°C	3.26 kW	3.01 kW
COP T _j = +7°C	5.48	3.34
P _{dh} T _j = 12°C	2.72 kW	2.62 kW
COP T _j = 12°C	7.46	5.50
P _{dh} T _j = T _{biv}	4.85 kW	4.40 kW
COP T _j = T _{biv}	4.16	2.36
P _{dh} T _j = TOL	4.85 kW	4.40 kW
COP T _j = TOL	4.16	2.36
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	11 W	11 W
PTO	11 W	11 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

EN 12102-1		
	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		
	Low temperature	Medium temperature
P _{designh}	11.71 kW	11.02 kW
η_s	151 %	118 %
P _{rated}	4.80 kW	4.40 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.52 kW	4.91 kW
COP Tj = TOL	2.23	1.52
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
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

Model: ARIANEXT COMPACT 70 S

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	250 l

Model: ARIANEXT FLEX 70 S

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	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
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	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

	Low temperature	Medium temperature
P _{designh}	7.88 kW	7.68 kW
η_s	191 %	133 %
P _{rated}	6.40 kW	5.62 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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.97 kW	6.80 kW
COP Tj = Tbiv	3.13	2.22
Pdh Tj = TOL	7.70 kW	6.75 kW
COP Tj = TOL	2.80	1.86
Cdh	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

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	250 l