

Subtype NIMBUS/ARIANEXT/AEROTOP/ENERGION 120/150 S - COMPACT

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/ARIANEXT/AEROTOP/ENERGION 120/150 S - COMPACT
Registration number	ICIM-PDC-000174
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	03.10.2022
Testing basis	HP Keymark V9

Model NIMBUS COMPACT 120 S NET R32

Model name	NIMBUS COMPACT 120 S NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model NIMBUS COMPACT 150 S NET R32

Model name	NIMBUS COMPACT 150 S NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model NIMBUS COMPACT 120 S 2Z NET R32

Model name	NIMBUS COMPACT 120 S 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model NIMBUS COMPACT 120 S-T NET R32

Model name	NIMBUS COMPACT 120 S-T NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model NIMBUS COMPACT 120 S-T 2Z NET R32

Model name	NIMBUS COMPACT 120 S-T 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model NIMBUS COMPACT 150 S 2Z NET R32

Model name	NIMBUS COMPACT 150 S 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model NIMBUS COMPACT 150 S-T NET R32

Model name	NIMBUS COMPACT 150 S-T NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model NIMBUS COMPACT 150 S-T 2Z NET R32

Model name	NIMBUS COMPACT 150 S-T 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model ARIANEXT COMPACT 120 S LINK R32

Model name	ARIANEXT COMPACT 120 S LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model ARIANEXT COMPACT 120 S 2Z LINK R32

Model name	ARIANEXT COMPACT 120 S 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model ARIANEXT COMPACT 120 S-T LINK R32

Model name	ARIANEXT COMPACT 120 S-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model ARIANEXT COMPACT 120 S-T 2Z LINK R32

Model name	ARIANEXT COMPACT 120 S-T 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model ARIANEXT COMPACT 150 S LINK R32

Model name	ARIANEXT COMPACT 150 S LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model ARIANEXT COMPACT 150 S 2Z LINK R32

Model name	ARIANEXT COMPACT 150 S 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model ARIANEXT COMPACT 150 S-T LINK R32

Model name	ARIANEXT COMPACT 150 S-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model ARIANEXT COMPACT 150 S-T 2Z LINK R32

Model name	ARIANEXT COMPACT 150 S-T 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model AEROTOP SPLIT 12.2 M-CRX 1Z

Model name	AEROTOP SPLIT 12.2 M-CRX 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model AEROTOP SPLIT 12.2 M-CRX 2Z

Model name	AEROTOP SPLIT 12.2 M-CRX 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model AEROTOP SPLIT 12.2 M-CR 1Z

Model name	AEROTOP SPLIT 12.2 M-CR 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model AEROTOP SPLIT 12.2 M-CR 2Z

Model name	AEROTOP SPLIT 12.2 M-CR 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
P _{rated}	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model AEROTOP SPLIT 15.2 M-CRX 1Z

Model name	AEROTOP SPLIT 15.2 M-CRX 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model AEROTOP SPLIT 15.2 M-CRX 2Z

Model name	AEROTOP SPLIT 15.2 M-CRX 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model AEROTOP SPLIT 15.2 M-CR 1Z

Model name	AEROTOP SPLIT 15.2 M-CR 1Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model AEROTOP SPLIT 15.2 M-CR 2Z

Model name	AEROTOP SPLIT 15.2 M-CR 2Z
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
P _{rated}	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh

Model AEROTOP SPLIT 12.2 M-C2R

Model name	AEROTOP SPLIT 12.2 M-C2R
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:02 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.00 kW	7.70 kW
El input	2.55 kW	2.44 kW
COP	4.70	3.15

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	2.62 kW
Cooling capacity	9.05	11.00
EER	2.90	4.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	10.75 kW	9.39 kW
η _s	180.82 %	141.18 %
P _{rated}	10.75 kW	9.39 kW
SCOP	4.60	3.60
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.54 kW	8.44 kW
COP T _j = -7°C	3.30	2.30
C _{dh} T _j = -7 °C	0.995	0.996
P _{dh} T _j = +2°C	5.96 kW	5.43 kW
COP T _j = +2°C	4.40	3.50
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	3.81 kW	3.86 kW
COP T _j = +7°C	6.10	4.80
C _{dh} T _j = +7 °C	0.978	0.983
P _{dh} T _j = 12°C	4.24 kW	4.48 kW
COP T _j = 12°C	7.50	6.40
C _{dh} T _j = +12 °C	0.975	0.980
P _{dh} T _j = T _{biv}	9.54 kW	8.44 kW
COP T _j = T _{biv}	3.30	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	9.92 kW	9.05 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	2.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	4833.13 kWh	5384.26 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	15.71 kW	13.73 kW
η _s	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	9.26 kW	8.64 kW
COP T _j = -7°C	3.60	2.80
C _{dh} T _j = -7 °C	0.995	0.995
P _{dh} T _j = +2°C	5.75 kW	5.35 kW
COP T _j = +2°C	5.00	4.10
C _{dh} T _j = +2 °C	0.988	0.989
P _{dh} T _j = +7°C	3.69 kW	3.90 kW
COP T _j = +7°C	6.20	5.40
C _{dh} T _j = +7 °C	0.977	0.978
P _{dh} T _j = 12°C	4.44 kW	4.08 kW
COP T _j = 12°C	7.80	6.60
C _{dh} T _j = +12 °C	0.976	0.982
P _{dh} T _j = T _{biv}	9.26 kW	8.64 kW
COP T _j = T _{biv}	3.50	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.43 kW	5.25 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.20
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.995	0.995
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	10517.78 kWh	10895.98 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	6.74 kW	6.42 kW
η _s	221.00 %	159.02 %

Prated	6.74 kW	6.42 kW
SCOP	5.60	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6.74 kW	6.42 kW
COP Tj = +2°C	3.90	2.50
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.34 kW	4.15 kW
COP Tj = +7°C	5.40	3.60
Cdh Tj = +7 °C	0.983	0.988
Pdh Tj = 12°C	4.02 kW	4.06 kW
COP Tj = 12°C	7.60	5.70
Cdh Tj = +12 °C	0.974	0.980
Pdh Tj = Tbiv	6.74 kW	6.42 kW
COP Tj = Tbiv	4.00	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.74 kW	6.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1607.97 kWh	2117.59 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.05 kW	
SEER	4.80	
Pdc Tj = 35°C	9.05 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	7.02 kW	
EER Tj = 30°C	4.28	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	4.48 kW	
EER Tj = 25°C	5.59	
Cdc Tj = 25 °C	0.98	
Pdc Tj = 20°C	3.78 kW	
EER Tj = 20°C	6.17	
Cdc Tj = 20 °C	0.97	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	1750 kWh

Model AEROTOP SPLIT 15.2 M-C2R

Model name	AEROTOP SPLIT 15.2 M-C2R
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	00:50 h:min
Standby power input	38.0 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	224 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.00 kW	9.25 kW
El input	3.33 kW	3.03 kW
COP	4.50	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	3.51 kW
Cooling capacity	11.00	13.00
EER	2.70	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.43 kW	11.47 kW
η _s	178.48 %	151.16 %
P _{rated}	12.43 kW	11.47 kW
SCOP	4.54	3.85
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.00 kW	10.07 kW
COP T _j = -7°C	3.10	2.30
C _{dh} T _j = -7 °C	0.996	0.997
P _{dh} T _j = +2°C	6.91 kW	7.16 kW
COP T _j = +2°C	4.30	3.80
C _{dh} T _j = +2 °C	0.991	0.992
P _{dh} T _j = +7°C	4.31 kW	4.13 kW
COP T _j = +7°C	6.20	5.30
C _{dh} T _j = +7 °C	0.980	0.982
P _{dh} T _j = 12°C	4.31 kW	4.61 kW
COP T _j = 12°C	7.50	6.60
C _{dh} T _j = +12 °C	0.976	0.980
P _{dh} T _j = T _{biv}	11.00 kW	10.07 kW
COP T _j = T _{biv}	3.10	2.30
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.90 kW	10.81 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.997
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	5662,37 kWh	6150,79 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	18.17 kW	16.77 kW
η _s	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	11.06 kW	10.41 kW
COP T _j = -7°C	3.40	2.80
C _{dh} T _j = -7 °C	0.996	0.996
P _{dh} T _j = +2°C	6.67 kW	6.72 kW
COP T _j = +2°C	4.50	4.20
C _{dh} T _j = +2 °C	0.990	0.991
P _{dh} T _j = +7°C	4.15 kW	4.33 kW
COP T _j = +7°C	6.30	5.80
C _{dh} T _j = +7 °C	0.979	0.981
P _{dh} T _j = 12°C	4.70 kW	4.44 kW
COP T _j = 12°C	7.70	6.50
C _{dh} T _j = +12 °C	0.977	0.980
P _{dh} T _j = T _{biv}	11.06 kW	10.41 kW
COP T _j = T _{biv}	3.40	2.80
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.99 kW	7.51 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.30	1.50
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.996	0.996
WTOL	60 °C	60 °C
P _{off}	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	12429.14 kWh	12967.34 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.83 kW	7.08 kW
η _s	220.08 %	164.75 %

Prated	7.83 kW	7.08 kW
SCOP	5.58	4.19
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	7.83 kW	7.08 kW
COP Tj = +2°C	3.70	2.50
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.02 kW	4.96 kW
COP Tj = +7°C	5.40	3.80
Cdh Tj = +7 °C	0.985	0.989
Pdh Tj = 12°C	4.09 kW	4.26 kW
COP Tj = 12°C	7.40	5.70
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	7.83 kW	7.08 kW
COP Tj = Tbiv	3.70	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.70	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	1875.75 kWh	2255.52 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.00 kW	
SEER	4.86	
Pdc Tj = 35°C	11.00 kW	
EER Tj = 35°C	2.70	
Pdc Tj = 30°C	8.32 kW	
EER Tj = 30°C	4.08	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	5.18 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	3.80 kW	
EER Tj = 20°C	6.15	
Cdc Tj = 20 °C	0.970	

Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Qce	2098.90 kWh