

## Subtype NIMBUS/ARIANEXT/AEROTOP/ENERGION 120/150 S - Plus

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 - Plus
Registration number	ICIM-PDC-000176
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 PLUS 120 S NET R32

Model name	NIMBUS PLUS 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 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	
Cooling capacity	9.05	
EER	2.90	4.20

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	10.75 kW	9.39 kW
η <sub>s</sub>	180.82 %	141.18 %
Pr <sub>ated</sub>	10.75 kW	9.39 kW
SCOP	4.60	3.60

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.54 kW	8.44 kW
COP Tj = -7°C	3.30	2.30
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.96 kW	5.43 kW
COP Tj = +2°C	4.40	3.50
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	3.81 kW	3.86 kW
COP Tj = +7°C	6.10	4.80
Cdh Tj = +7 °C	0.978	0.983
Pdh Tj = 12°C	4.24 kW	4.48 kW
COP Tj = 12°C	7.50	6.40
Cdh Tj = +12 °C	0.975	0.980
Pdh Tj = Tbiv	9.54 kW	8.44 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	4833.13 kWh	5384.26 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	15.71 kW	13.73 kW
$\eta_s$	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.26 kW	8.64 kW

COP Tj = -7°C	3.60	2.80
Cdh Tj = -7 °C	0.995	0.995
Pdh Tj = +2°C	5.75 kW	5.35 kW
COP Tj = +2°C	5.00	4.10
Cdh Tj = +2 °C	0.988	0.989
Pdh Tj = +7°C	3.69 kW	3.90 kW
COP Tj = +7°C	6.20	5.40
Cdh Tj = +7 °C	0.977	0.978
Pdh Tj = 12°C	4.44 kW	4.08 kW
COP Tj = 12°C	7.80	6.60
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	9.26 kW	8.64 kW
COP Tj = Tbiv	3.50	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.43 kW	5.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	10517.78 kWh	10895.98 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	6.74 kW	6.42 kW
ηs	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 PLUS 150 S NET R32

Model name	NIMBUS PLUS 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 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	
Cooling capacity	11.00	
EER	2.70	3.70

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	12.43 kW	11.47 kW
η <sub>s</sub>	178.48 %	151.16 %
Prated	12.43 kW	11.47 kW
SCOP	4.54	3.85

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.07 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.91 kW	7.16 kW
COP Tj = +2°C	4.30	3.80
Cdh Tj = +2 °C	0.991	0.992
Pdh Tj = +7°C	4.31 kW	4.13 kW
COP Tj = +7°C	6.20	5.30
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.31 kW	4.61 kW
COP Tj = 12°C	7.50	6.60
Cdh Tj = +12 °C	0.976	0.980
Pdh Tj = Tbiv	11.00 kW	10.07 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.90 kW	10.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	5662,37 kWh	6150,79 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	16.77 kW
$\eta_s$	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	10.41 kW

COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.67 kW	6.72 kW
COP Tj = +2°C	4.50	4.20
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	4.15 kW	4.33 kW
COP Tj = +7°C	6.30	5.80
Cdh Tj = +7 °C	0.979	0.981
Pdh Tj = 12°C	4.70 kW	4.44 kW
COP Tj = 12°C	7.70	6.50
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	11.06 kW	10.41 kW
COP Tj = Tbiv	3.40	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.99 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
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	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	12429.14 kWh	12967.34 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	7.83 kW	7.08 kW
$\eta_s$	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 PLUS 120 S-T NET R32

Model name	NIMBUS PLUS 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 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	
Cooling capacity	9.05	
EER	2.90	4.20

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	10.75 kW	9.39 kW
η <sub>s</sub>	180.82 %	141.18 %
Prated	10.75 kW	9.39 kW
SCOP	4.60	3.60

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.54 kW	8.44 kW
COP Tj = -7°C	3.30	2.30
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.96 kW	5.43 kW
COP Tj = +2°C	4.40	3.50
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	3.81 kW	3.86 kW
COP Tj = +7°C	6.10	4.80
Cdh Tj = +7 °C	0.978	0.983
Pdh Tj = 12°C	4.24 kW	4.48 kW
COP Tj = 12°C	7.50	6.40
Cdh Tj = +12 °C	0.975	0.980
Pdh Tj = Tbiv	9.54 kW	8.44 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	4833.13 kWh	5384.26 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	15.71 kW	13.73 kW
$\eta_s$	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.26 kW	8.64 kW

COP Tj = -7°C	3.60	2.80
Cdh Tj = -7 °C	0.995	0.995
Pdh Tj = +2°C	5.75 kW	5.35 kW
COP Tj = +2°C	5.00	4.10
Cdh Tj = +2 °C	0.988	0.989
Pdh Tj = +7°C	3.69 kW	3.90 kW
COP Tj = +7°C	6.20	5.40
Cdh Tj = +7 °C	0.977	0.978
Pdh Tj = 12°C	4.44 kW	4.08 kW
COP Tj = 12°C	7.80	6.60
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	9.26 kW	8.64 kW
COP Tj = Tbiv	3.50	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.43 kW	5.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	10517.78 kWh	10895.98 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	6.74 kW	6.42 kW
ηs	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 PLUS 150 S-T NET R32

Model name	NIMBUS PLUS 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 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	
Cooling capacity	11.00	
EER	2.70	3.70

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	12.43 kW	11.47 kW
η <sub>s</sub>	178.48 %	151.16 %
Prated	12.43 kW	11.47 kW
SCOP	4.54	3.85

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.07 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.91 kW	7.16 kW
COP Tj = +2°C	4.30	3.80
Cdh Tj = +2 °C	0.991	0.992
Pdh Tj = +7°C	4.31 kW	4.13 kW
COP Tj = +7°C	6.20	5.30
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.31 kW	4.61 kW
COP Tj = 12°C	7.50	6.60
Cdh Tj = +12 °C	0.976	0.980
Pdh Tj = Tbiv	11.00 kW	10.07 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.90 kW	10.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	5662,37 kWh	6150,79 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	16.77 kW
$\eta_s$	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	10.41 kW

COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.67 kW	6.72 kW
COP Tj = +2°C	4.50	4.20
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	4.15 kW	4.33 kW
COP Tj = +7°C	6.30	5.80
Cdh Tj = +7 °C	0.979	0.981
Pdh Tj = 12°C	4.70 kW	4.44 kW
COP Tj = 12°C	7.70	6.50
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	11.06 kW	10.41 kW
COP Tj = Tbiv	3.40	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.99 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
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	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	12429.14 kWh	12967.34 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	7.83 kW	7.08 kW
$\eta_s$	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 PLUS 120 S LINK R32

Model name	ARIANEXT PLUS 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 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	
Cooling capacity	9.05	
EER	2.90	4.20

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	10.75 kW	9.39 kW
η <sub>s</sub>	180.82 %	141.18 %
Pr <sub>ated</sub>	10.75 kW	9.39 kW
SCOP	4.60	3.60

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.54 kW	8.44 kW
COP Tj = -7°C	3.30	2.30
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.96 kW	5.43 kW
COP Tj = +2°C	4.40	3.50
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	3.81 kW	3.86 kW
COP Tj = +7°C	6.10	4.80
Cdh Tj = +7 °C	0.978	0.983
Pdh Tj = 12°C	4.24 kW	4.48 kW
COP Tj = 12°C	7.50	6.40
Cdh Tj = +12 °C	0.975	0.980
Pdh Tj = Tbiv	9.54 kW	8.44 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	4833.13 kWh	5384.26 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	15.71 kW	13.73 kW
$\eta_s$	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.26 kW	8.64 kW

COP Tj = -7°C	3.60	2.80
Cdh Tj = -7 °C	0.995	0.995
Pdh Tj = +2°C	5.75 kW	5.35 kW
COP Tj = +2°C	5.00	4.10
Cdh Tj = +2 °C	0.988	0.989
Pdh Tj = +7°C	3.69 kW	3.90 kW
COP Tj = +7°C	6.20	5.40
Cdh Tj = +7 °C	0.977	0.978
Pdh Tj = 12°C	4.44 kW	4.08 kW
COP Tj = 12°C	7.80	6.60
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	9.26 kW	8.64 kW
COP Tj = Tbiv	3.50	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.43 kW	5.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	10517.78 kWh	10895.98 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	6.74 kW	6.42 kW
ηs	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 PLUS 120 S-T LINK R32

Model name	ARIANEXT PLUS 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 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	
Cooling capacity	9.05	
EER	2.90	4.20

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	10.75 kW	9.39 kW
η <sub>s</sub>	180.82 %	141.18 %
Prated	10.75 kW	9.39 kW
SCOP	4.60	3.60

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.54 kW	8.44 kW
COP Tj = -7°C	3.30	2.30
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.96 kW	5.43 kW
COP Tj = +2°C	4.40	3.50
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	3.81 kW	3.86 kW
COP Tj = +7°C	6.10	4.80
Cdh Tj = +7 °C	0.978	0.983
Pdh Tj = 12°C	4.24 kW	4.48 kW
COP Tj = 12°C	7.50	6.40
Cdh Tj = +12 °C	0.975	0.980
Pdh Tj = Tbiv	9.54 kW	8.44 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	4833.13 kWh	5384.26 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	15.71 kW	13.73 kW
$\eta_s$	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.26 kW	8.64 kW

COP Tj = -7°C	3.60	2.80
Cdh Tj = -7 °C	0.995	0.995
Pdh Tj = +2°C	5.75 kW	5.35 kW
COP Tj = +2°C	5.00	4.10
Cdh Tj = +2 °C	0.988	0.989
Pdh Tj = +7°C	3.69 kW	3.90 kW
COP Tj = +7°C	6.20	5.40
Cdh Tj = +7 °C	0.977	0.978
Pdh Tj = 12°C	4.44 kW	4.08 kW
COP Tj = 12°C	7.80	6.60
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	9.26 kW	8.64 kW
COP Tj = Tbiv	3.50	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.43 kW	5.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	10517.78 kWh	10895.98 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	6.74 kW	6.42 kW
ηs	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 PLUS 150 S LINK R32

Model name	ARIANEXT PLUS 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 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	
Cooling capacity	11.00	
EER	2.70	3.70

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	12.43 kW	11.47 kW
η <sub>s</sub>	178.48 %	151.16 %
Pr <sub>ated</sub>	12.43 kW	11.47 kW
SCOP	4.54	3.85

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.07 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.91 kW	7.16 kW
COP Tj = +2°C	4.30	3.80
Cdh Tj = +2 °C	0.991	0.992
Pdh Tj = +7°C	4.31 kW	4.13 kW
COP Tj = +7°C	6.20	5.30
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.31 kW	4.61 kW
COP Tj = 12°C	7.50	6.60
Cdh Tj = +12 °C	0.976	0.980
Pdh Tj = Tbiv	11.00 kW	10.07 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.90 kW	10.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	5662,37 kWh	6150,79 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	16.77 kW
$\eta_s$	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	10.41 kW

COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.67 kW	6.72 kW
COP Tj = +2°C	4.50	4.20
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	4.15 kW	4.33 kW
COP Tj = +7°C	6.30	5.80
Cdh Tj = +7 °C	0.979	0.981
Pdh Tj = 12°C	4.70 kW	4.44 kW
COP Tj = 12°C	7.70	6.50
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	11.06 kW	10.41 kW
COP Tj = Tbiv	3.40	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.99 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
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	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	12429.14 kWh	12967.34 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	7.83 kW	7.08 kW
ηs	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 PLUS 150 S-T LINK R32

Model name	ARIANEXT PLUS 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 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	
Cooling capacity	11.00	
EER	2.70	3.70

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	12.43 kW	11.47 kW
η <sub>s</sub>	178.48 %	151.16 %
Prated	12.43 kW	11.47 kW
SCOP	4.54	3.85

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.07 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.91 kW	7.16 kW
COP Tj = +2°C	4.30	3.80
Cdh Tj = +2 °C	0.991	0.992
Pdh Tj = +7°C	4.31 kW	4.13 kW
COP Tj = +7°C	6.20	5.30
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.31 kW	4.61 kW
COP Tj = 12°C	7.50	6.60
Cdh Tj = +12 °C	0.976	0.980
Pdh Tj = Tbiv	11.00 kW	10.07 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.90 kW	10.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	5662,37 kWh	6150,79 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	16.77 kW
$\eta_s$	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	10.41 kW

COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.67 kW	6.72 kW
COP Tj = +2°C	4.50	4.20
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	4.15 kW	4.33 kW
COP Tj = +7°C	6.30	5.80
Cdh Tj = +7 °C	0.979	0.981
Pdh Tj = 12°C	4.70 kW	4.44 kW
COP Tj = 12°C	7.70	6.50
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	11.06 kW	10.41 kW
COP Tj = Tbiv	3.40	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.99 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
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	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	12429.14 kWh	12967.34 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	7.83 kW	7.08 kW
ηs	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-RX

Model name	AEROTOP SPLIT 12.2 M-RX
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 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	
Cooling capacity	9.05	
EER	2.90	4.20

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	10.75 kW	9.39 kW
η <sub>s</sub>	180.82 %	141.18 %
Prated	10.75 kW	9.39 kW
SCOP	4.60	3.60

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.54 kW	8.44 kW
COP Tj = -7°C	3.30	2.30
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.96 kW	5.43 kW
COP Tj = +2°C	4.40	3.50
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	3.81 kW	3.86 kW
COP Tj = +7°C	6.10	4.80
Cdh Tj = +7 °C	0.978	0.983
Pdh Tj = 12°C	4.24 kW	4.48 kW
COP Tj = 12°C	7.50	6.40
Cdh Tj = +12 °C	0.975	0.980
Pdh Tj = Tbiv	9.54 kW	8.44 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	4833.13 kWh	5384.26 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	15.71 kW	13.73 kW
$\eta_s$	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.26 kW	8.64 kW

COP Tj = -7°C	3.60	2.80
Cdh Tj = -7 °C	0.995	0.995
Pdh Tj = +2°C	5.75 kW	5.35 kW
COP Tj = +2°C	5.00	4.10
Cdh Tj = +2 °C	0.988	0.989
Pdh Tj = +7°C	3.69 kW	3.90 kW
COP Tj = +7°C	6.20	5.40
Cdh Tj = +7 °C	0.977	0.978
Pdh Tj = 12°C	4.44 kW	4.08 kW
COP Tj = 12°C	7.80	6.60
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	9.26 kW	8.64 kW
COP Tj = Tbiv	3.50	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.43 kW	5.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	10517.78 kWh	10895.98 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	6.74 kW	6.42 kW
ηs	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-R

Model name	AEROTOP SPLIT 12.2 M-R
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 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	
Cooling capacity	9.05	
EER	2.90	4.20

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	10.75 kW	9.39 kW
η <sub>s</sub>	180.82 %	141.18 %
Prated	10.75 kW	9.39 kW
SCOP	4.60	3.60

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.54 kW	8.44 kW
COP Tj = -7°C	3.30	2.30
Cdh Tj = -7 °C	0.995	0.996
Pdh Tj = +2°C	5.96 kW	5.43 kW
COP Tj = +2°C	4.40	3.50
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	3.81 kW	3.86 kW
COP Tj = +7°C	6.10	4.80
Cdh Tj = +7 °C	0.978	0.983
Pdh Tj = 12°C	4.24 kW	4.48 kW
COP Tj = 12°C	7.50	6.40
Cdh Tj = +12 °C	0.975	0.980
Pdh Tj = Tbiv	9.54 kW	8.44 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	0.996
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	0.83 kW	0.34 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	4833.13 kWh	5384.26 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	15.71 kW	13.73 kW
$\eta_s$	144.30 %	121.24 %
Prated	15.71 kW	13.73 kW
SCOP	3.68	3.11
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.26 kW	8.64 kW

COP Tj = -7°C	3.60	2.80
Cdh Tj = -7 °C	0.995	0.995
Pdh Tj = +2°C	5.75 kW	5.35 kW
COP Tj = +2°C	5.00	4.10
Cdh Tj = +2 °C	0.988	0.989
Pdh Tj = +7°C	3.69 kW	3.90 kW
COP Tj = +7°C	6.20	5.40
Cdh Tj = +7 °C	0.977	0.978
Pdh Tj = 12°C	4.44 kW	4.08 kW
COP Tj = 12°C	7.80	6.60
Cdh Tj = +12 °C	0.976	0.982
Pdh Tj = Tbiv	9.26 kW	8.64 kW
COP Tj = Tbiv	3.50	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.43 kW	5.25 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.995	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	14.50 kW	12.70 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	10517.78 kWh	10895.98 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	6.74 kW	6.42 kW
ηs	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-RX

Model name	AEROTOP SPLIT 15.2 M-RX
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 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	
Cooling capacity	11.00	
EER	2.70	3.70

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	12.43 kW	11.47 kW
η <sub>s</sub>	178.48 %	151.16 %
Pr <sub>ated</sub>	12.43 kW	11.47 kW
SCOP	4.54	3.85

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.07 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.91 kW	7.16 kW
COP Tj = +2°C	4.30	3.80
Cdh Tj = +2 °C	0.991	0.992
Pdh Tj = +7°C	4.31 kW	4.13 kW
COP Tj = +7°C	6.20	5.30
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.31 kW	4.61 kW
COP Tj = 12°C	7.50	6.60
Cdh Tj = +12 °C	0.976	0.980
Pdh Tj = Tbiv	11.00 kW	10.07 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.90 kW	10.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	5662,37 kWh	6150,79 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	16.77 kW
$\eta_s$	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	10.41 kW

COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.67 kW	6.72 kW
COP Tj = +2°C	4.50	4.20
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	4.15 kW	4.33 kW
COP Tj = +7°C	6.30	5.80
Cdh Tj = +7 °C	0.979	0.981
Pdh Tj = 12°C	4.70 kW	4.44 kW
COP Tj = 12°C	7.70	6.50
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	11.06 kW	10.41 kW
COP Tj = Tbiv	3.40	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.99 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
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	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	12429.14 kWh	12967.34 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	7.83 kW	7.08 kW
ηs	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-R

Model name	AEROTOP SPLIT 15.2 M-R
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 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	
Cooling capacity	11.00	
EER	2.70	3.70

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
P <sub>designh</sub>	12.43 kW	11.47 kW
η <sub>s</sub>	178.48 %	151.16 %
Pr <sub>ated</sub>	12.43 kW	11.47 kW
SCOP	4.54	3.85

Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.07 kW
COP Tj = -7°C	3.10	2.30
Cdh Tj = -7 °C	0.996	0.997
Pdh Tj = +2°C	6.91 kW	7.16 kW
COP Tj = +2°C	4.30	3.80
Cdh Tj = +2 °C	0.991	0.992
Pdh Tj = +7°C	4.31 kW	4.13 kW
COP Tj = +7°C	6.20	5.30
Cdh Tj = +7 °C	0.980	0.982
Pdh Tj = 12°C	4.31 kW	4.61 kW
COP Tj = 12°C	7.50	6.60
Cdh Tj = +12 °C	0.976	0.980
Pdh Tj = Tbiv	11.00 kW	10.07 kW
COP Tj = Tbiv	3.10	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.90 kW	10.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.997
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	0.53 kW	0.66 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	5662,37 kWh	6150,79 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	16.77 kW
$\eta_s$	141.17 %	124.51 %
Prated	18.17 kW	16.77 kW
SCOP	3.60	3.19
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.06 kW	10.41 kW

COP Tj = -7°C	3.40	2.80
Cdh Tj = -7 °C	0.996	0.996
Pdh Tj = +2°C	6.67 kW	6.72 kW
COP Tj = +2°C	4.50	4.20
Cdh Tj = +2 °C	0.990	0.991
Pdh Tj = +7°C	4.15 kW	4.33 kW
COP Tj = +7°C	6.30	5.80
Cdh Tj = +7 °C	0.979	0.981
Pdh Tj = 12°C	4.70 kW	4.44 kW
COP Tj = 12°C	7.70	6.50
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	11.06 kW	10.41 kW
COP Tj = Tbiv	3.40	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.99 kW	7.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.996	0.996
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	16.80 kW	15.50 kW
Backup Heater	6.00 kW	6.00 kW
Annual energy consumption Qhe	12429.14 kWh	12967.34 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	7.83 kW	7.08 kW
ηs	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	