

This information was generated by the HP KEYMARK database on 25 Feb 2023

	NIMBUS/ARIANEXT/AEROTOP/ENERGION 120/150 S - Plus	Reg. No.	ICIM-PDC-000176
Certificate Holder			
	Ariston Thermo Group		
	Viale Aristide Merloni 45		I-60044
	Fabriano (AN)		Italy
Certification Body	ICIM S.p.A.		
Subtype title	NIMBUS/ARIANEXT/AEROTOP/ENERGION 120/150 S - Plus		
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

Configure model	
Model name	NIMBUS PLUS 120 S NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

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EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	
Cooling capacity	9.75	
EER	2.80	4.20

EN 14825

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	+7°C/+12°C
P _{designc}	9.75 kW
SEER	4.84
P _{dc} T _j = 35°C	9.75 kW
EER T _j = 35°C	2.80
P _{dc} T _j = 30°C	7.02 kW
EER T _j = 30°C	4.28
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	4.48 kW
EER T _j = 25°C	5.59
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.78 kW
EER T _j = 20°C	6.17
C _{dc} T _j = 20 °C	0.97
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	1865.07 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: NIMBUS PLUS 150 S NET R32

Configure model	
Model name	NIMBUS PLUS 150 S NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	
Cooling capacity	11.00	
EER	2.70	3.70

EN 14825		

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	11.00 kW
SEER	4.86
P _{dc} T _j = 35°C	11.00 kW
EER T _j = 35°C	2.70
P _{dc} T _j = 30°C	8.32 kW
EER T _j = 30°C	4.08
C _{dc} T _j = 30 °C	0.990
P _{dc} T _j = 25°C	5.18 kW
EER T _j = 25°C	5.89
C _{dc} T _j = 25 °C	0.980
P _{dc} T _j = 20°C	3.80 kW
EER T _j = 20°C	6.15
C _{dc} T _j = 20 °C	0.970
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	2098.90 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: NIMBUS PLUS 120 S-T NET R32

Configure model	
Model name	NIMBUS PLUS 120 S-T NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	
Cooling capacity	9.75	
EER	2.80	4.20

EN 14825

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	9.75 kW
SEER	4.84
P _{dc} T _j = 35°C	9.75 kW
EER T _j = 35°C	2.80
P _{dc} T _j = 30°C	7.02 kW
EER T _j = 30°C	4.28
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	4.48 kW
EER T _j = 25°C	5.59
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.78 kW
EER T _j = 20°C	6.17
C _{dc} T _j = 20 °C	0.97
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	1865.07 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: NIMBUS PLUS 150 S-T NET R32

Configure model	
Model name	NIMBUS PLUS 150 S-T NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	
Cooling capacity	11.00	
EER	2.70	3.70

EN 14825		

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	11.00 kW
SEER	4.86
P _{dc} T _j = 35°C	11.00 kW
EER T _j = 35°C	2.70
P _{dc} T _j = 30°C	8.32 kW
EER T _j = 30°C	4.08
C _{dc} T _j = 30 °C	0.990
P _{dc} T _j = 25°C	5.18 kW
EER T _j = 25°C	5.89
C _{dc} T _j = 25 °C	0.980
P _{dc} T _j = 20°C	3.80 kW
EER T _j = 20°C	6.15
C _{dc} T _j = 20 °C	0.970
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	2098.90 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

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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

Model: ARIANEXT PLUS 120 S LINK R32

Configure model	
Model name	ARIANEXT PLUS 120 S LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	
Cooling capacity	9.75	
EER	2.80	4.20

EN 14825

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	9.75 kW
SEER	4.84
P _{dc} T _j = 35°C	9.75 kW
EER T _j = 35°C	2.80
P _{dc} T _j = 30°C	7.02 kW
EER T _j = 30°C	4.28
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	4.48 kW
EER T _j = 25°C	5.59
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.78 kW
EER T _j = 20°C	6.17
C _{dc} T _j = 20 °C	0.97
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	1865.07 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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
$P_{dh} T_j = -7^{\circ}C$	9.54 kW	8.44 kW
$COP T_j = -7^{\circ}C$	3.30	2.30
$C_{dh} T_j = -7^{\circ}C$	0.995	0.996
$P_{dh} T_j = +2^{\circ}C$	5.96 kW	5.43 kW
$COP T_j = +2^{\circ}C$	4.40	3.50
$C_{dh} T_j = +2^{\circ}C$	0.990	0.991
$P_{dh} T_j = +7^{\circ}C$	3.81 kW	3.86 kW
$COP T_j = +7^{\circ}C$	6.10	4.80

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: ARIANEXT PLUS 120 S-T LINK R32

Configure model	
Model name	ARIANEXT PLUS 120 S-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	
Cooling capacity	9.75	
EER	2.80	4.20

EN 14825

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	9.75 kW
SEER	4.84
P _{dc} T _j = 35°C	9.75 kW
EER T _j = 35°C	2.80
P _{dc} T _j = 30°C	7.02 kW
EER T _j = 30°C	4.28
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	4.48 kW
EER T _j = 25°C	5.59
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.78 kW
EER T _j = 20°C	6.17
C _{dc} T _j = 20 °C	0.97
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	1865.07 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: ARIANEXT PLUS 150 S LINK R32

Configure model	
Model name	ARIANEXT PLUS 150 S LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	
Cooling capacity	11.00	
EER	2.70	3.70

EN 14825		

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	11.00 kW
SEER	4.86
P _{dc} T _j = 35°C	11.00 kW
EER T _j = 35°C	2.70
P _{dc} T _j = 30°C	8.32 kW
EER T _j = 30°C	4.08
C _{dc} T _j = 30 °C	0.990
P _{dc} T _j = 25°C	5.18 kW
EER T _j = 25°C	5.89
C _{dc} T _j = 25 °C	0.980
P _{dc} T _j = 20°C	3.80 kW
EER T _j = 20°C	6.15
C _{dc} T _j = 20 °C	0.970
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	2098.90 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: ARIANEXT PLUS 150 S-T LINK R32

Configure model	
Model name	ARIANEXT PLUS 150 S-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	
Cooling capacity	11.00	
EER	2.70	3.70

EN 14825		

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	11.00 kW
SEER	4.86
P _{dc} T _j = 35°C	11.00 kW
EER T _j = 35°C	2.70
P _{dc} T _j = 30°C	8.32 kW
EER T _j = 30°C	4.08
C _{dc} T _j = 30 °C	0.990
P _{dc} T _j = 25°C	5.18 kW
EER T _j = 25°C	5.89
C _{dc} T _j = 25 °C	0.980
P _{dc} T _j = 20°C	3.80 kW
EER T _j = 20°C	6.15
C _{dc} T _j = 20 °C	0.970
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	2098.90 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: AEROTOP SPLIT 12.2 M-RX

Configure model	
Model name	AEROTOP SPLIT 12.2 M-RX
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	
Cooling capacity	9.75	
EER	2.80	4.20

EN 14825

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	9.75 kW
SEER	4.84
P _{dc} T _j = 35°C	9.75 kW
EER T _j = 35°C	2.80
P _{dc} T _j = 30°C	7.02 kW
EER T _j = 30°C	4.28
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	4.48 kW
EER T _j = 25°C	5.59
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.78 kW
EER T _j = 20°C	6.17
C _{dc} T _j = 20 °C	0.97
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	1865.07 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: AEROTOP SPLIT 12.2 M-R

Configure model	
Model name	AEROTOP SPLIT 12.2 M-R
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	3.48 kW	
Cooling capacity	9.75	
EER	2.80	4.20

EN 14825		

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	9.75 kW
SEER	4.84
P _{dc} T _j = 35°C	9.75 kW
EER T _j = 35°C	2.80
P _{dc} T _j = 30°C	7.02 kW
EER T _j = 30°C	4.28
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	4.48 kW
EER T _j = 25°C	5.59
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.78 kW
EER T _j = 20°C	6.17
C _{dc} T _j = 20 °C	0.97
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	1865.07 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: AEROTOP SPLIT 15.2 M-RX

Configure model	
Model name	AEROTOP SPLIT 15.2 M-RX
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	4.07 kW	
Cooling capacity	11.00	
EER	2.70	3.70

EN 14825		

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	11.00 kW
SEER	4.86
P _{dc} T _j = 35°C	11.00 kW
EER T _j = 35°C	2.70
P _{dc} T _j = 30°C	8.32 kW
EER T _j = 30°C	4.08
C _{dc} T _j = 30 °C	0.990
P _{dc} T _j = 25°C	5.18 kW
EER T _j = 25°C	5.89
C _{dc} T _j = 25 °C	0.980
P _{dc} T _j = 20°C	3.80 kW
EER T _j = 20°C	6.15
C _{dc} T _j = 20 °C	0.970
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	2098.90 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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

Model: AEROTOP SPLIT 15.2 M-R

Configure model	
Model name	AEROTOP SPLIT 15.2 M-R
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 14511-2

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

EN 14825

This information was generated by the HP KEYMARK database on 25 Feb 2023

	+7°C/+12°C
P _{designc}	11.00 kW
SEER	4.86
P _{dc} T _j = 35°C	11.00 kW
EER T _j = 35°C	2.70
P _{dc} T _j = 30°C	8.32 kW
EER T _j = 30°C	4.08
C _{dc} T _j = 30 °C	0.990
P _{dc} T _j = 25°C	5.18 kW
EER T _j = 25°C	5.89
C _{dc} T _j = 25 °C	0.980
P _{dc} T _j = 20°C	3.80 kW
EER T _j = 20°C	6.15
C _{dc} T _j = 20 °C	0.970
P _{off}	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Annual energy consumption Q _{ce}	2098.90 kWh

Average Climate

This information was generated by the HP KEYMARK database on 25 Feb 2023

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 25 Feb 2023

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