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Login

Summary of	NIMBUS/ARIANEXT/AEROTOP/ENERGION 80 S - Plus	Reg. No.	ICIM-PDC-000120
Certificate Holder		<u>'</u>	
Name	Ariston Thermo Group		
Address	Viale Aristide Merloni 45	Zip	I-60044
City	Fabriano (AN)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	NIMBUS/ARIANEXT/AEROTOP/ENERGION 80 S - Plus		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.8 kg		
Certification Date	05.07.2022		
Testing basis	Heat Pump KEYMARK rev9		



Model: NIMBUS PLUS 80 S NET R32

Configure model		
Model name	NIMBUS PLUS 80 S NET R32	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

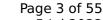
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
СОР	4.80	2.95

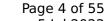
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70





	+7°C/+12°C
Pdesignc	7 kW
SEER	4.64
Pdc Tj = 35°C	7 kW
EER Tj = 35°C	3.1
Pdc Tj = 30°C	5.17 kW
EER Tj = 30°C	4.13
Cdc Tj = 30 °C	0.99
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	4.89
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	3.19 kW
EER Tj = 20°C	6.85
Cdc Tj = 20 °C	0.97
Poff	14 W
РТО	14 W
PSB	14 W
РСК	0 W
Annual energy consumption Qce	1381 kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	4.93 kW	4.48 kW
η_{s}	242 %	151 %
Prated	4.93 kW	4.48 kW
SCOP	6.14	3.84
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.93 kW	4.48 kW
COP Tj = +2°C	4.05	2.53
Cdh Tj = +2 °C	0.989	0.992
Pdh Tj = +7°C	3.10 kW	2.81 kW
COP Tj = +7°C	5.70	3.08
Cdh Tj = +7 °C	0.975	0.985
Pdh Tj = 12°C	3.28 kW	3.16 kW
COP Tj = 12°C	7.86	5.45





	0.977 4.48 kW 2.53 4.90 kW 1.51 60 °C
COP Tj = Tbiv 4.05 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	2.53 4.90 kW 1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	4.90 kW 1.51
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	1.51
WTOL 60 °C	60 °C
	00 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 4.00 kW	4.00 kW
Annual energy consumption Qhe 1073 kWh	1557 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)



	Low temperature	Medium temperature
Pdesignh	11.78 kW	11.53 kW
η_s	154 %	120 %
Prated	11.78 kW	11.53 kW
SCOP	3.93	3.08
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.13 kW	6.98 kW
COP Tj = -7°C	3.47	2.73
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.51 kW	4.20 kW
COP Tj = +2°C	5.32	4.07
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.06 kW	2.84 kW
COP Tj = +7°C	7.24	5.15
Cdh Tj = +7 °C	0.968	0.975
Pdh Tj = 12°C	3.18 kW	3.24 kW
COP Tj = 12°C	8.02	6.47
Cdh Tj = +12 °C	0.966	0.973
Pdh Tj = Tbiv	7.13 kW	6.98 kW





COP Tj = Tbiv	3.47	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	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	11.16 kW	10.93 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	7398 kWh	9226 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





	Low temperature	Medium temperature
Pdesignh	8.37 kW	7.62 kW
η_{S}	195 %	140 %
Prated	8.37 kW	7.62 kW
SCOP	4.95	3.57
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	7.40 kW	6.74 kW
COP Tj = -7°C	3.10	2.29
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = +2°C	4.54 kW	4.22 kW
COP Tj = +2°C	4.80	3.51
Cdh Tj = +2 °C	0.986	0.989
Pdh Tj = $+7^{\circ}$ C	2.94 kW	2.74 kW
$COP Tj = +7^{\circ}C$	6.61	4.36
Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29



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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	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	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Model: NIMBUS PLUS 80 S-T NET R32

Configure model	
Model name	NIMBUS PLUS 80 S-T NET R32
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone Colder Climate + Warmer Climate	
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

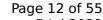
General Data		
Power supply	Power supply 3x400V 50Hz	

Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
СОР	4.80	2.95

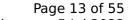
EN 14511-4	
Shutting off the heat transfer medium flow	naccod
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling





EN 14511-2		
+7°C/+12°C +18°C/+23°C		
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70





	+7°C/+12°C
Pdesignc	7 kW
SEER	4.64
Pdc Tj = 35°C	7 kW
EER Tj = 35°C	3.1
Pdc Tj = 30°C	5.17 kW
EER Tj = 30°C	4.13
Cdc Tj = 30 °C	0.99
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	4.89
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	3.19 kW
EER Tj = 20°C	6.85
Cdc Tj = 20 °C	0.97
Poff	14 W
РТО	14 W
PSB	14 W
PCK	o w
Annual energy consumption Qce	1381 kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

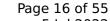
EN 14825		
	Low temperature	Medium temperature
Pdesignh	4.93 kW	4.48 kW
η_{s}	242 %	151 %
Prated	4.93 kW	4.48 kW
SCOP	6.14	3.84
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.93 kW	4.48 kW
COP Tj = +2°C	4.05	2.53
Cdh Tj = +2 °C	0.989	0.992
Pdh Tj = +7°C	3.10 kW	2.81 kW
COP Tj = +7°C	5.70	3.08
Cdh Tj = +7 °C	0.975	0.985
Pdh Tj = 12°C	3.28 kW	3.16 kW
COP Tj = 12°C	7.86	5.45



	0.977 4.48 kW 2.53 4.90 kW 1.51 60 °C
COP Tj = Tbiv 4.05 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	2.53 4.90 kW 1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	4.90 kW 1.51
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	1.51
WTOL 60 °C	60 °C
	00 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 4.00 kW	4.00 kW
Annual energy consumption Qhe 1073 kWh	1557 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





	Low temperature	Medium temperature
Pdesignh	11.78 kW	11.53 kW
η_{s}	154 %	120 %
Prated	11.78 kW	11.53 kW
SCOP	3.93	3.08
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.13 kW	6.98 kW
COP Tj = -7°C	3.47	2.73
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.51 kW	4.20 kW
COP Tj = +2°C	5.32	4.07
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.06 kW	2.84 kW
COP Tj = +7°C	7.24	5.15
Cdh Tj = +7 °C	0.968	0.975
Pdh Tj = 12°C	3.18 kW	3.24 kW
COP Tj = 12°C	8.02	6.47
Cdh Tj = +12 °C	0.966	0.973
Pdh Tj = Tbiv	7.13 kW	6.98 kW

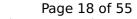




COP Tj = Tbiv	3.47	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	11.16 kW	10.93 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	7398 kWh	9226 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





	Low temperature	Medium temperature
Pdesignh	8.37 kW	7.62 kW
η_{S}	195 %	140 %
Prated	8.37 kW	7.62 kW
SCOP	4.95	3.57
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	7.40 kW	6.74 kW
COP Tj = -7°C	3.10	2.29
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = +2°C	4.54 kW	4.22 kW
COP Tj = +2°C	4.80	3.51
Cdh Tj = +2 °C	0.986	0.989
Pdh Tj = $+7^{\circ}$ C	2.94 kW	2.74 kW
$COP Tj = +7^{\circ}C$	6.61	4.36
Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29



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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	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	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Model: ARIANEXT PLUS 80 S LINK R32

Configure model		
Model name	ARIANEXT PLUS 80 S LINK R32	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

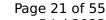
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	5.80 kW	
El input	1.67 kW	1.97 kW	
СОР	4.80	2.95	

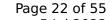
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	2.26 kW	1.49 kW	
Cooling capacity	7	7.00	
EER	3.10	4.70	





This information was generated by the file	+7°C/+12°C
Pdesignc	7 kW
SEER	4.64
Pdc Tj = 35°C	7 kW
EER Tj = 35°C	3.1
Pdc Tj = 30°C	5.17 kW
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Cdc Tj = 30 °C	0.99
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	4.89
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	3.19 kW
EER Tj = 20°C	6.85
Cdc Tj = 20 °C	0.97
Poff	14 W
РТО	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	1381 kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	4.93 kW	4.48 kW
η_{s}	242 %	151 %
Prated	4.93 kW	4.48 kW
SCOP	6.14	3.84
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
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	0.977 4.48 kW 2.53 4.90 kW 1.51 60 °C
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WTOL 60 °C	60 °C
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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 4.00 kW	4.00 kW
Annual energy consumption Qhe 1073 kWh	1557 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
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	Low temperature	Medium temperature
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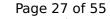




COP Tj = Tbiv	3.47	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	11.16 kW	10.93 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	7398 kWh	9226 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
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Sound power level outdoor	56 dB(A)	56 dB(A)





	Low temperature	Medium temperature
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TOL	-20 °C	-20 °C
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COP Tj = -7°C	3.10	2.29
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Pdh Tj = +2°C	4.54 kW	4.22 kW
COP Tj = +2°C	4.80	3.51
Cdh Tj = +2 °C	0.986	0.989
Pdh Tj = $+7^{\circ}$ C	2.94 kW	2.74 kW
$COP Tj = +7^{\circ}C$	6.61	4.36
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COP Tj = Tbiv	3.10	2.29



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This information was generated by the HP KEYMARK database on 5 Jul 2022

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	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	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh



Model: ARIANEXT PLUS 80 S-T LINK R32

Configure model		
Model name	ARIANEXT PLUS 80 S-T LINK R32	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

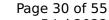
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
СОР	4.80	2.95

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





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70





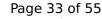
	+7°C/+12°C
Pdesignc	7 kW
SEER	4.64
Pdc Tj = 35°C	7 kW
EER Tj = 35°C	3.1
Pdc Tj = 30°C	5.17 kW
EER Tj = 30°C	4.13
Cdc Tj = 30 °C	0.99
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	4.89
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	3.19 kW
EER Tj = 20°C	6.85
Cdc Tj = 20 °C	0.97
Poff	14 W
PTO	14 W
PSB	14 W
PCK	o w
Annual energy consumption Qce	1381 kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	4.93 kW	4.48 kW
η_{s}	242 %	151 %
Prated	4.93 kW	4.48 kW
SCOP	6.14	3.84
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.93 kW	4.48 kW
COP Tj = +2°C	4.05	2.53
Cdh Tj = +2 °C	0.989	0.992
Pdh Tj = +7°C	3.10 kW	2.81 kW
COP Tj = +7°C	5.70	3.08
Cdh Tj = +7 °C	0.975	0.985
Pdh Tj = 12°C	3.28 kW	3.16 kW
COP Tj = 12°C	7.86	5.45





	0.977 4.48 kW 2.53 4.90 kW 1.51 60 °C
COP Tj = Tbiv 4.05 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	2.53 4.90 kW 1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	4.90 kW 1.51
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	1.51
WTOL 60 °C	60 °C
	00 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 4.00 kW	4.00 kW
Annual energy consumption Qhe 1073 kWh	1557 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)



	Low temperature	Medium temperature
Pdesignh	11.78 kW	11.53 kW
η_{s}	154 %	120 %
Prated	11.78 kW	11.53 kW
SCOP	3.93	3.08
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.13 kW	6.98 kW
COP Tj = -7°C	3.47	2.73
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.51 kW	4.20 kW
COP Tj = +2°C	5.32	4.07
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.06 kW	2.84 kW
COP Tj = +7°C	7.24	5.15
Cdh Tj = +7 °C	0.968	0.975
Pdh Tj = 12°C	3.18 kW	3.24 kW
COP Tj = 12°C	8.02	6.47
Cdh Tj = +12 °C	0.966	0.973
Pdh Tj = Tbiv	7.13 kW	6.98 kW





COP Tj = Tbiv	3.47	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	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	11.16 kW	10.93 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	7398 kWh	9226 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





	Low temperature	Medium temperature
Pdesignh	8.37 kW	7.62 kW
η_{s}	195 %	140 %
Prated	8.37 kW	7.62 kW
SCOP	4.95	3.57
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.40 kW	6.74 kW
COP Tj = -7°C	3.10	2.29
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = $+2$ °C	4.54 kW	4.22 kW
COP Tj = +2°C	4.80	3.51
Cdh Tj = +2 °C	0.986	0.989
Pdh Tj = $+7^{\circ}$ C	2.94 kW	2.74 kW
COP Tj = +7°C	6.61	4.36
Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29



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This information was generated by the HP KEYMARK database on 5 Jul 2022

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	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	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Model: AEROTOP SPLIT 08.2 M-RX

Configure model	
Model name	AEROTOP SPLIT 08.2 M-RX
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

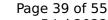
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
СОР	4.80	2.95

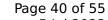
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70





This information was generated by the fit	+7°C/+12°C
Pdesignc	7 kW
SEER	4.64
Pdc Tj = 35°C	7 kW
EER Tj = 35°C	3.1
Pdc Tj = 30°C	5.17 kW
EER Tj = 30°C	4.13
Cdc Tj = 30 °C	0.99
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	4.89
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	3.19 kW
EER Tj = 20°C	6.85
Cdc Tj = 20 °C	0.97
Poff	14 W
РТО	14 W
PSB	14 W
РСК	0 W
Annual energy consumption Qce	1381 kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	4.93 kW	4.48 kW
η_{s}	242 %	151 %
Prated	4.93 kW	4.48 kW
SCOP	6.14	3.84
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.93 kW	4.48 kW
COP Tj = +2°C	4.05	2.53
Cdh Tj = +2 °C	0.989	0.992
Pdh Tj = +7°C	3.10 kW	2.81 kW
COP Tj = +7°C	5.70	3.08
Cdh Tj = +7 °C	0.975	0.985
Pdh Tj = 12°C	3.28 kW	3.16 kW
COP Tj = 12°C	7.86	5.45



	0.977 4.48 kW 2.53 4.90 kW 1.51 60 °C
COP Tj = Tbiv 4.05 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	2.53 4.90 kW 1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	4.90 kW 1.51
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22	1.51
WTOL 60 °C	60 °C
	00 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 4.00 kW	4.00 kW
Annual energy consumption Qhe 1073 kWh	1557 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)



	Low temperature	Medium temperature
Pdesignh	11.78 kW	11.53 kW
η_{s}	154 %	120 %
Prated	11.78 kW	11.53 kW
SCOP	3.93	3.08
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.13 kW	6.98 kW
COP Tj = -7°C	3.47	2.73
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.51 kW	4.20 kW
COP Tj = +2°C	5.32	4.07
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.06 kW	2.84 kW
COP Tj = +7°C	7.24	5.15
Cdh Tj = +7 °C	0.968	0.975
Pdh Tj = 12°C	3.18 kW	3.24 kW
COP Tj = 12°C	8.02	6.47
Cdh Tj = +12 °C	0.966	0.973
Pdh Tj = Tbiv	7.13 kW	6.98 kW





COP Tj = Tbiv	3.47	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
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	11.16 kW	10.93 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	7398 kWh	9226 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)





	Low temperature	Medium temperature
Pdesignh	8.37 kW	7.62 kW
η_{S}	195 %	140 %
Prated	8.37 kW	7.62 kW
SCOP	4.95	3.57
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	7.40 kW	6.74 kW
COP Tj = -7°C	3.10	2.29
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = +2°C	4.54 kW	4.22 kW
$COPTj = +2^{\circ}C$	4.80	3.51
Cdh Tj = +2 °C	0.986	0.989
Pdh Tj = $+7^{\circ}$ C	2.94 kW	2.74 kW
$COP Tj = +7^{\circ}C$	6.61	4.36
Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29





	,	T actubuse on 5 jul 2021
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	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	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Model: AEROTOP SPLIT 08.2 M-R

Configure model	
Model name	AEROTOP SPLIT 08.2 M-R
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

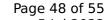
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
СОР	4.80	2.95

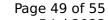
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70





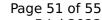
	+7°C/+12°C
Pdesignc	7 kW
SEER	4.64
Pdc Tj = 35°C	7 kW
EER Tj = 35°C	3.1
Pdc Tj = 30°C	5.17 kW
EER Tj = 30°C	4.13
Cdc Tj = 30 °C	0.99
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	4.89
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	3.19 kW
EER Tj = 20°C	6.85
Cdc Tj = 20 °C	0.97
Poff	14 W
РТО	14 W
PSB	14 W
PCK	o w
Annual energy consumption Qce	1381 kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	4.93 kW	4.48 kW
η_{s}	242 %	151 %
Prated	4.93 kW	4.48 kW
SCOP	6.14	3.84
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	4.93 kW	4.48 kW
COP Tj = +2°C	4.05	2.53
Cdh Tj = +2 °C	0.989	0.992
Pdh Tj = +7°C	3.10 kW	2.81 kW
COP Tj = +7°C	5.70	3.08
Cdh Tj = +7 °C	0.975	0.985
Pdh Tj = 12°C	3.28 kW	3.16 kW
COP Tj = 12°C	7.86	5.45





Cdh Tj = +12 °C	0.967	0.977
Pdh Tj = Tbiv	4.93 kW	4.48 kW
COP Tj = Tbiv	4.05	2.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	1073 kWh	1557 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	



	Low temperature	Medium temperature
Pdesignh	11.78 kW	11.53 kW
η_{s}	154 %	120 %
Prated	11.78 kW	11.53 kW
SCOP	3.93	3.08
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.13 kW	6.98 kW
COP Tj = -7°C	3.47	2.73
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.51 kW	4.20 kW
COP Tj = +2°C	5.32	4.07
Cdh Tj = +2 °C	0.984	0.987
Pdh Tj = +7°C	3.06 kW	2.84 kW
COP Tj = +7°C	7.24	5.15
Cdh Tj = +7 °C	0.968	0.975
Pdh Tj = 12°C	3.18 kW	3.24 kW
COP Tj = 12°C	8.02	6.47
Cdh Tj = +12 °C	0.966	0.973
Pdh Tj = Tbiv	7.13 kW	6.98 kW

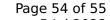




COP Tj = Tbiv	3.47	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	11.16 kW	10.93 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	7398 kWh	9226 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	





	Low temperature	Medium temperature
Pdesignh	8.37 kW	7.62 kW
η_{s}	195 %	140 %
Prated	8.37 kW	7.62 kW
SCOP	4.95	3.57
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.40 kW	6.74 kW
COP Tj = -7°C	3.10	2.29
Cdh Tj = -7 °C	0.994	0.995
Pdh Tj = +2°C	4.54 kW	4.22 kW
COP Tj = +2°C	4.80	3.51
Cdh Tj = +2 °C	0.986	0.989
Pdh Tj = +7°C	2.94 kW	2.74 kW
COP Tj = +7°C	6.61	4.36
Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29



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This information was generated by the HP KEYMARK database on 5 Jul 2022

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	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	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh