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Summary of	NIMBUS 90 S - ARIANEXT 90 S - AEROTOP SPLIT 09		Reg. No.	ICIM-PDC-000001
Certificate Holder				
Name	Ariston Thermo Group			
Address	Viale Aristide Merloni 45		Zip	I-60044
City	Fabriano (AN)		Country	Italy
Certification Body	ICIM S.p.A.			
Subtype title	NIMBUS 90 S - ARIANEXT 90 S - AEROTOP SPLIT 09			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.3 kg			
Certification Date	19.12.2017			

## Model: AEROTOP SPLIT 09M-R

Configure model	
Model name	AEROTOP SPLIT 09M-R
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

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$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

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PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

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COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: ARIANEXT PLUS 90 S-T LINK

Configure model	
Model name	ARIANEXT PLUS 90 S-T LINK
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate



This information was generated by the HP KEYMARK database on 7 Jul 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

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$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

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PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

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COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: ARIANEXT PLUS 90 S-T

Configure model	
Model name	ARIANEXT PLUS 90 S-T
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



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$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: NIMBUS PLUS 90 S-T NET

Configure model	
Model name	NIMBUS PLUS 90 S-T NET
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: AEROTOP SPLIT 09M-CR

Configure model	
Model name	AEROTOP SPLIT 09M-CR
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
η <sub>s</sub>	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate



This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: ARIANEXT COMPACT 90 S-T LINK

Configure model	
Model name	ARIANEXT COMPACT 90 S-T LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Pdesignh	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: ARIANEXT FLEX 90 S-T LINK

Configure model	
Model name	ARIANEXT FLEX 90 S-T LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
$P_{designh}$	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
$P_{rated}$	6.86 kW	6.27 kW
SCOP	6.20	3.90
$T_{biv}$	2 °C	2 °C
TOL	2 °C	2 °C
$P_{dh} T_j = +2^{\circ}C$	6.86 kW	6.27 kW
$COP T_j = +2^{\circ}C$	4.10	2.45
$P_{dh} T_j = +7^{\circ}C$	4.46 kW	4.05 kW
$COP T_j = +7^{\circ}C$	5.44	3.19
$P_{dh} T_j = 12^{\circ}C$	4.36 kW	4.11 kW
$COP T_j = 12^{\circ}C$	8.44	5.72
$P_{dh} T_j = T_{biv}$	6.86 kW	6.27 kW
$COP T_j = T_{biv}$	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate



This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

# Model: ARIANEXT FLEX 90 S-T - 300 LINK

Configure model	
Model name	ARIANEXT FLEX 90 S-T - 300 LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

## Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

## Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
$P_{designh}$	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
$P_{rated}$	6.86 kW	6.27 kW
SCOP	6.20	3.90
$T_{biv}$	2 °C	2 °C
TOL	2 °C	2 °C
$P_{dh} T_j = +2^{\circ}C$	6.86 kW	6.27 kW
$COP T_j = +2^{\circ}C$	4.10	2.45
$P_{dh} T_j = +7^{\circ}C$	4.46 kW	4.05 kW
$COP T_j = +7^{\circ}C$	5.44	3.19
$P_{dh} T_j = 12^{\circ}C$	4.36 kW	4.11 kW
$COP T_j = 12^{\circ}C$	8.44	5.72
$P_{dh} T_j = T_{biv}$	6.86 kW	6.27 kW
$COP T_j = T_{biv}$	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
η <sub>s</sub>	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

## Average Climate



<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

## Model: NIMBUS COMPACT 90 S-T NET

Configure model	
Model name	NIMBUS COMPACT 90 S-T NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
η <sub>s</sub>	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: NIMBUS FLEX 90 S-T NET

Configure model	
Model name	NIMBUS FLEX 90 S-T NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate



<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: NIMBUS FLEX 90 S-T - 300 NET

Configure model	
Model name	NIMBUS FLEX 90 S-T - 300 NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

## Average Climate



This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

## Model: ARIANEXT COMPACT 90 S-T

Configure model	
Model name	ARIANEXT COMPACT 90 S-T
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW
COP T <sub>j</sub> = -7°C	3.32	2.32
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.60 kW	5.31 kW
COP T <sub>j</sub> = +2°C	4.59	3.22
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.64 kW	3.47 kW
COP T <sub>j</sub> = +7°C	5.98	4.38
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.44 kW	4.22 kW
COP T <sub>j</sub> = 12°C	9.48	6.80

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

## Model: ARIANEXT FLEX 90 S-T

Configure model	
Model name	ARIANEXT FLEX 90 S-T
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW
COP T <sub>j</sub> = -7°C	3.32	2.32
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.60 kW	5.31 kW
COP T <sub>j</sub> = +2°C	4.59	3.22
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.64 kW	3.47 kW
COP T <sub>j</sub> = +7°C	5.98	4.38
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.44 kW	4.22 kW
COP T <sub>j</sub> = 12°C	9.48	6.80

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

## Model: ARIANEXT FLEX 90 S-T - 300

Configure model	
Model name	ARIANEXT FLEX 90 S-T - 300
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW
COP T <sub>j</sub> = -7°C	3.32	2.32
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.60 kW	5.31 kW
COP T <sub>j</sub> = +2°C	4.59	3.22
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.64 kW	3.47 kW
COP T <sub>j</sub> = +7°C	5.98	4.38
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.44 kW	4.22 kW
COP T <sub>j</sub> = 12°C	9.48	6.80

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	131 %
COP	3.10
Heating up time	01:52 h:min
Standby power input	61.0 W
Reference hot water temperature	54.4 °C
Mixed water at 40°C	434 l

## Model: AEROTOP SPLIT 09M-RX

Configure model	
Model name	AEROTOP SPLIT 09M-RX
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: ARIANEXT PLUS 90 S LINK

Configure model	
Model name	ARIANEXT PLUS 90 S LINK
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: ARIANEXT PLUS 90 S

Configure model	
Model name	ARIANEXT PLUS 90 S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: NIMBUS PLUS 90 S NET

Configure model	
Model name	NIMBUS PLUS 90 S NET
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
η <sub>s</sub>	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Model: AEROTOP SPLIT 09M-CRX

Configure model	
Model name	AEROTOP SPLIT 09M-CRX
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: ARIANEXT COMPACT 90 S LINK

Configure model	
Model name	ARIANEXT COMPACT 90 S LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: ARIANEXT FLEX 90 S - 300 LINK

Configure model	
Model name	ARIANEXT FLEX 90 S - 300 LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

## Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

## Model: ARIANEXT FLEX 90 S LINK

Configure model	
Model name	ARIANEXT FLEX 90 S LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
η <sub>s</sub>	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: NIMBUS COMPACT 90 S NET

Configure model	
Model name	NIMBUS COMPACT 90 S NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: NIMBUS FLEX 90 S NET

Configure model	
Model name	NIMBUS FLEX 90 S NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
P <sub>rated</sub>	6.86 kW	6.27 kW
SCOP	6.20	3.90
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	6.86 kW	6.27 kW
COP T <sub>j</sub> = +2°C	4.10	2.45
P <sub>dh</sub> T <sub>j</sub> = +7°C	4.46 kW	4.05 kW
COP T <sub>j</sub> = +7°C	5.44	3.19
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.36 kW	4.11 kW
COP T <sub>j</sub> = 12°C	8.44	5.72
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	6.86 kW	6.27 kW
COP T <sub>j</sub> = T <sub>biv</sub>	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

## Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Model: NIMBUS FLEX 90 S - 300 NET

Configure model	
Model name	NIMBUS FLEX 90 S - 300 NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Warmer Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
$P_{designh}$	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
$P_{rated}$	6.86 kW	6.27 kW
SCOP	6.20	3.90
$T_{biv}$	2 °C	2 °C
TOL	2 °C	2 °C
$P_{dh} T_j = +2^{\circ}C$	6.86 kW	6.27 kW
$COP T_j = +2^{\circ}C$	4.10	2.45
$P_{dh} T_j = +7^{\circ}C$	4.46 kW	4.05 kW
$COP T_j = +7^{\circ}C$	5.44	3.19
$P_{dh} T_j = 12^{\circ}C$	4.36 kW	4.11 kW
$COP T_j = 12^{\circ}C$	8.44	5.72
$P_{dh} T_j = T_{biv}$	6.86 kW	6.27 kW
$COP T_j = T_{biv}$	4.10	2.45

This information was generated by the HP KEYMARK database on 7 Jul 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.86 kW	6.27 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.10	2.45
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption $Q_{he}$	1477 kWh	2149 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$P_{designh}$	14.97 kW	13.72 kW



This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_s$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

This information was generated by the HP KEYMARK database on 7 Jul 2022

PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q <sub>he</sub>	9620 kWh	12389 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
P <sub>designh</sub>	10.38 kW	9.38 kW
η <sub>s</sub>	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW

This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

## Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XXL
Efficiency $\eta_{DHW}$	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

## Model: ARIANEXT COMPACT 90 S

Configure model	
Model name	ARIANEXT COMPACT 90 S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW
COP T <sub>j</sub> = -7°C	3.32	2.32
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.60 kW	5.31 kW
COP T <sub>j</sub> = +2°C	4.59	3.22
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.64 kW	3.47 kW
COP T <sub>j</sub> = +7°C	5.98	4.38
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.44 kW	4.22 kW
COP T <sub>j</sub> = 12°C	9.48	6.80

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

## Model: ARIANEXT FLEX 90 S

Configure model	
Model name	ARIANEXT FLEX 90 S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW
COP T <sub>j</sub> = -7°C	3.32	2.32
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.60 kW	5.31 kW
COP T <sub>j</sub> = +2°C	4.59	3.22
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.64 kW	3.47 kW
COP T <sub>j</sub> = +7°C	5.98	4.38
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.44 kW	4.22 kW
COP T <sub>j</sub> = 12°C	9.48	6.80

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

## Model: ARIANEXT FLEX 90 S - 300

Configure model	
Model name	ARIANEXT FLEX 90 S - 300
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
COP	5.25	3.21

### Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	10.38 kW	9.38 kW
$\eta_s$	189 %	133 %
P <sub>rated</sub>	10.38 kW	9.38 kW
SCOP	4.80	3.40
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.18 kW	8.30 kW
COP T <sub>j</sub> = -7°C	3.32	2.32
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.60 kW	5.31 kW
COP T <sub>j</sub> = +2°C	4.59	3.22
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.64 kW	3.47 kW
COP T <sub>j</sub> = +7°C	5.98	4.38
P <sub>dh</sub> T <sub>j</sub> = 12°C	4.44 kW	4.22 kW
COP T <sub>j</sub> = 12°C	9.48	6.80

This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Domestic Hot Water (DHW)

### Average Climate



This information was generated by the HP KEYMARK database on 7 Jul 2022

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	131 %
COP	3.10
Heating up time	01:52 h:min
Standby power input	61.0 W
Reference hot water temperature	54.4 °C
Mixed water at 40°C	434 l