

# $$\operatorname{\textit{Page}}\ 1$$ of 13 This information was generated by the HP KEYMARK database on 5 Jul 2022

#### <u>Login</u>

Summary of	NIMBUS/ARIANEXT/AEROTOP/ENERGION 35/50 S - FLEX	Reg. No.	ICIM-PDC-000113
Certificate Holder	Certificate Holder		
Name	Name Ariston Thermo Group		
Address	Viale Aristide Merloni 45 Zip I-60044		I-60044
City	abriano (AN) Country Italy		Italy
Certification Body	tion Body ICIM S.p.A.		
Subtype title	NIMBUS/ARIANEXT/AEROTOP/ENERGION 35/50 S - FLEX		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.4 kg		
Certification Date	05.07.2022		



# Model: NIMBUS FLEX 35 S NET R32

Configure model		
Model name	NIMBUS FLEX 35 S NET R32	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply 1x230V 50Hz		

## Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	3.50 kW	2.95 kW
El input	0.69 kW	1.09 kW
СОР	5.10	2.70

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

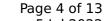
# Cooling





EN 14511-2	
+7°C/+12°C	
El input	1.03 kW
Cooling capacity	3.5

EN 14825	





	+7°C/+12°C
Pdesignc	3.5 kW
SEER	4.87
Pdc Tj = 35°C	3.5 kW
EER Tj = 35°C	3
Pdc Tj = 30°C	2.58 kW
EER Tj = 30°C	4.33
Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	1.72 kW
EER Tj = 25°C	5.86
Cdc Tj = 25 °C	0.95
Pdc Tj = 20°C	1.79 kW
EER Tj = 20°C	7.24
Cdc Tj = 20 °C	0.94
Poff	14 W
РТО	14 W
PSB	14 W
PCK	o w
Annual energy consumption Qce	628 kWh

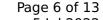
# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.63 kW
$\eta_{s}$	192 %	134 %
Prated	5.20 kW	4.63 kW
SCOP	4.89	3.43
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.60 kW	4.10 kW
COP Tj = -7°C	3.21	2.28
Cdh Tj = -7 °C	0.991	0.993
Pdh Tj = +2°C	2.88 kW	2.63 kW
COP Tj = +2°C	4.66	3.35
Cdh Tj = +2 °C	0.979	0.983
Pdh Tj = +7°C	1.85 kW	1.76 kW
COP Tj = +7°C	6.56	4.22

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





This information was generated by the HP KEYMARK database on 5 Jul 2022 Cdh Tj = +7 °C0.954 0.969 1.92 kW 1.88 kW Pdh Tj =  $12^{\circ}$ C  $COPTj = 12^{\circ}C$ 8.49 6.30 Cdh Tj = +12 °C0.942 0.956 4.60 kW 4.10 kW Pdh Ti = TbivCOP Tj = Tbiv3.21 2.28 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 3.03 kW 2.46 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.25 1.52 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.991 0.993 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W **PSB** 13 W 13 W **PCK** 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity

#### Domestic Hot Water (DHW)

### **Average Climate**

Supplementary Heater: PSUP

Annual energy consumption Qhe

**Backup Heater** 

2.17 kW

4.00 kW

2198 kWh

2.17 kW

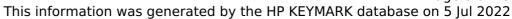
4.00 kW

2790 kWh



# $$\operatorname{\textit{Page}}\ 7$$ of 13 This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	141 %	
СОР	3.30	
Heating up time	01:52 h:min	
Standby power input	32.0 W	
Reference hot water temperature	53 °C	
Mixed water at 40°C	244	





# **Model: NIMBUS FLEX 50 S NET R32**

Configure model		
Model name	NIMBUS FLEX 50 S NET R32	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

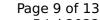
General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.00 kW	3.80 kW	
El input	1.00 kW	1.36 kW	
СОР	5.00	2.80	

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

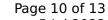
# Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.75 kW	
Cooling capacity	5	
EER	2.85	4.56

#### EN 14825





This information was generated by the file	+7°C/+12°C
Pdesignc	5 kW
SEER	4.85
Pdc Tj = 35°C	5 kW
EER Tj = 35°C	2.85
Pdc Tj = 30°C	3.77 kW
EER Tj = 30°C	4.25
Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	2.32 kW
EER Tj = 25°C	5.38
Cdc Tj = 25 °C	0.97
Pdc Tj = 20°C	1.87 kW
EER Tj = 20°C	7.85
Cdc Tj = 20 °C	0.94
Poff	14 W
PTO	14 W
PSB	14 W
PCK	o w
Annual energy consumption Qce	925 kWh

# **Average Climate**

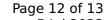




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.65 kW	5.65 kW
$\eta_{s}$	183 %	136 %
Prated	5.65 kW	5.65 kW
SCOP	4.66	3.48
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	3.10	2.28
Cdh Tj = -7 °C	0.992	0.994
Pdh Tj = +2°C	3.11 kW	3.11 kW
COP Tj = +2°C	4.32	3.30
Cdh Tj = +2 °C	0.981	0.986
Pdh Tj = +7°C	1.96 kW	2.19 kW
COP Tj = +7°C	6.48	4.58

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





guidant and g		
Cdh Tj = +7 °C	0.955	0.972
Pdh Tj = 12°C	1.86 kW	1.84 kW
COP Tj = 12°C	8.41	6.33
Cdh Tj = +12 °C	0.939	0.953
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	3.10	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.96 kW	2.47 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	2505 kWh	3360 kWh

## Domestic Hot Water (DHW)

## Average Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	141 %	
СОР	3.30	
Heating up time	01:30 h:min	
Standby power input	32.0 W	
Reference hot water temperature	53 °C	
Mixed water at 40°C	244	