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

#### **Login**

Summary of	NIMBUS/ARIANEXT/AEROTOP/ENERGION 35/50 M - FLEX	Reg. No.	ICIM-PDC-000110		
Certificate Holder	Certificate Holder				
Name	Name Ariston Thermo Group				
Address	Viale Aristide Merloni 45	Zip	I-60044		
City	Fabriano (AN)	Country	Italy		
Certification Body	ICIM S.p.A.				
Subtype title	NIMBUS/ARIANEXT/AEROTOP/ENERGION 35/50 M - FLEX				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R32				
Mass of Refrigerant	1 kg				
Certification Date	05.07.2022				



## **Model: NIMBUS FLEX 35 M NET R32**

Configure model			
Model name	NIMBUS FLEX 35 M 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

COP

5.10

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

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
PTO	14 W
PSB	14 W
PCK	o w
Annual energy consumption Qce	628 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 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

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		TARK database on 5 jul 202
Cdh Tj = +7 °C	0.954	0.969
Pdh Tj = 12°C	1.92 kW	1.88 kW
COP Tj = 12°C	8.49	6.30
Cdh Tj = +12 °C	0.942	0.956
Pdh Tj = Tbiv	4.60 kW	4.10 kW
COP Tj = Tbiv	3.21	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
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	2.17 kW	2.17 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	2198 kWh	2790 kWh

## Domestic Hot Water (DHW)



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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 M NET R32**

Configure model		
Model name	NIMBUS FLEX 50 M 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

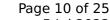
## Cooling





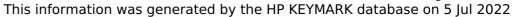
EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.75 kW	
Cooling capacity	5	
EER	2.85	4.56

#### EN 14825





	+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
РТО	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	925 kWh

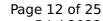




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

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

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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)



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	



## **Model: ARIANEXT FLEX 35 M LINK R32**

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

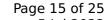
General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	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

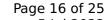
## Cooling





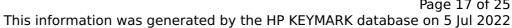
EN 14511-2		
+7°C/+12°C		
El input	1.03 kW	
Cooling capacity	3.5	

EN 14925
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

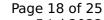




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

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

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Cdh Tj = +7 °C	0.954	0.969	
Pdh Tj = 12°C	1.92 kW	1.88 kW	
COP Tj = 12°C	8.49	6.30	
Cdh Tj = +12 °C	0.942	0.956	
Pdh Tj = Tbiv	4.60 kW	4.10 kW	
COP Tj = Tbiv	3.21	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	
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	2.17 kW	2.17 kW	
Backup Heater	4.00 kW	4.00 kW	
Annual energy consumption Qhe	2198 kWh	2790 kWh	

## Domestic Hot Water (DHW)



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: ARIANEXT FLEX 50 M LINK R32**

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

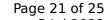
General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	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

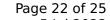
## Cooling





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





	+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
РТО	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	925 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
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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

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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)



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