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Summary of	NIMBUS/ARIANEXT/AEROTOP/ENERGION 80 M - FLEX		Reg. No.	ICIM-PDC-000116
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/ARIANEXT/AEROTOP/ENERGION 80 M - FLEX			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.4 kg			
Certification Date	05.07.2022			

## Model: NIMBUS FLEX 80 M NET R32

Configure model	
Model name	NIMBUS FLEX 80 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	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

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

### Cooling

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

### EN 14511-2

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

### EN 14825

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

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7 kW
SEER	4.64
P <sub>dc</sub> T <sub>j</sub> = 35°C	7 kW
EER T <sub>j</sub> = 35°C	3.1
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.17 kW
EER T <sub>j</sub> = 30°C	4.13
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.99
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.32 kW
EER T <sub>j</sub> = 25°C	4.89
C <sub>dc</sub> T <sub>j</sub> = 25 °C	0.98
P <sub>dc</sub> T <sub>j</sub> = 20°C	3.19 kW
EER T <sub>j</sub> = 20°C	6.85
C <sub>dc</sub> T <sub>j</sub> = 20 °C	0.97
P <sub>off</sub>	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1381 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	8.37 kW	7.62 kW
$\eta_s$	195 %	140 %
P <sub>rated</sub>	8.37 kW	7.62 kW
SCOP	4.95	3.57
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.40 kW	6.74 kW
COP T <sub>j</sub> = -7°C	3.10	2.29
C <sub>dh</sub> T <sub>j</sub> = -7 °C	0.994	0.995
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.54 kW	4.22 kW
COP T <sub>j</sub> = +2°C	4.80	3.51
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.986	0.989
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.94 kW	2.74 kW
COP T <sub>j</sub> = +7°C	6.61	4.36

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

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	141 %
COP	3.30
Heating up time	01:15 h:min
Standby power input	36.0 W
Reference hot water temperature	53 °C
Mixed water at 40°C	256 l

# Model: NIMBUS FLEX 80 M-T NET R32

Configure model	
Model name	NIMBUS FLEX 80 M-T NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

## Heating

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

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

## Cooling



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

**EN 14511-2**

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

**EN 14825**

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	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7 kW
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P <sub>dc</sub> T <sub>j</sub> = 35°C	7 kW
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EER T <sub>j</sub> = 30°C	4.13
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.99
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.32 kW
EER T <sub>j</sub> = 25°C	4.89
C <sub>dc</sub> T <sub>j</sub> = 25 °C	0.98
P <sub>dc</sub> T <sub>j</sub> = 20°C	3.19 kW
EER T <sub>j</sub> = 20°C	6.85
C <sub>dc</sub> T <sub>j</sub> = 20 °C	0.97
P <sub>off</sub>	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1381 kWh

## Average Climate

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	8.37 kW	7.62 kW
$\eta_s$	195 %	140 %
P <sub>rated</sub>	8.37 kW	7.62 kW
SCOP	4.95	3.57
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.40 kW	6.74 kW
COP T <sub>j</sub> = -7°C	3.10	2.29
C <sub>dh</sub> T <sub>j</sub> = -7 °C	0.994	0.995
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.54 kW	4.22 kW
COP T <sub>j</sub> = +2°C	4.80	3.51
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.986	0.989
P <sub>dh</sub> T <sub>j</sub> = +7°C	2.94 kW	2.74 kW
COP T <sub>j</sub> = +7°C	6.61	4.36

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Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	141 %
COP	3.30
Heating up time	01:15 h:min
Standby power input	36.0 W
Reference hot water temperature	53 °C
Mixed water at 40°C	256 l

## Model: ARIANEXT FLEX 80 M LINK R32

Configure model	
Model name	ARIANEXT FLEX 80 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	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

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

### Cooling

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

### EN 14511-2

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

### EN 14825

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

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7 kW
SEER	4.64
P <sub>dc</sub> T <sub>j</sub> = 35°C	7 kW
EER T <sub>j</sub> = 35°C	3.1
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.17 kW
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P <sub>dc</sub> T <sub>j</sub> = 20°C	3.19 kW
EER T <sub>j</sub> = 20°C	6.85
C <sub>dc</sub> T <sub>j</sub> = 20 °C	0.97
P <sub>off</sub>	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1381 kWh

## Average Climate



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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825

	Low temperature	Medium temperature
P <sub>designh</sub>	8.37 kW	7.62 kW
$\eta_s$	195 %	140 %
P <sub>rated</sub>	8.37 kW	7.62 kW
SCOP	4.95	3.57
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	7.40 kW	6.74 kW
COP T <sub>j</sub> = -7°C	3.10	2.29
C <sub>dh</sub> T <sub>j</sub> = -7 °C	0.994	0.995
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.54 kW	4.22 kW
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WTOL	60 °C	60 °C
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

## Domestic Hot Water (DHW)

### Average Climate

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

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	141 %
COP	3.30
Heating up time	01:15 h:min
Standby power input	36.0 W
Reference hot water temperature	53 °C
Mixed water at 40°C	256 l

## Model: ARIANEXT FLEX 80 M-T LINK R32

Configure model	
Model name	ARIANEXT FLEX 80 M-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

### Heating

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

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

### Cooling

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

**EN 14511-2**

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
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P <sub>off</sub>	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1381 kWh

## Average Climate

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
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### EN 14825

	Low temperature	Medium temperature
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

## Domestic Hot Water (DHW)

### Average Climate



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

<b>EN 16147</b>	
Declared load profile	L
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Heating up time	01:15 h:min
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