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Summary of	Áurea+ HP60 16/18 / AHP60 16/18	Reg. No.	ICIM-PDC-000125-00
Certificate Holder			
Name	Group Atlantic España - Soluciones Confort Térmico S.A.		
Address	Calle Antonio Machado, 65 - Edificio Sócrates	Zip	08840
City	Viladecans, Barcelona	Country	Spain
Certification Body	ICIM S.p.A.		
Subtype title	Áurea+ HP60 16/18 / AHP60 16/18		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	4 kg		
Certification Date	18.10.2021		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: HP60-16 / AHP60-16

Configure model	
Model name	HP60-16 / AHP60-16
Application	Heating (medium temp)
Units	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	16.30 kW	15.63 kW
El input	3.49 kW	5.18 kW
COP	4.67	3.02

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	126 %
Prated	14.00 kW	13.00 kW
SCOP	4.49	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.88	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.33	3.06
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.70 kW	5.50 kW
COP Tj = +7°C	5.83	4.11
Cdh Tj = +7 °C	0.981	0.986

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Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.12	6.30
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.88	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6209 kWh	8357 kWh

Cooling

EN 14511-2

	+7°C/+12°C
El input	4.38 kW
Cooling capacity	13.80
EER	3.15

EN 14825

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	+7°C/+12°C
P _{designc}	13.80 kW
SEER	4.80
P _{dc} T _j = 35°C	13.80 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	10.17 kW
EER T _j = 30°C	4.36
C _{dc}	1.0
P _{dc} T _j = 25°C	6.47 kW
EER T _j = 25°C	5.30
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.67
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1726 kWh

Model: HP60-18TR / AHP60-18TR

Configure model	
Model name	HP60-18TR / AHP60-18TR
Application	Heating (medium temp)
Units	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	17.90 kW	17.25 kW
El input	4.07 kW	5.99 kW
COP	4.40	2.88

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	131 %
Prated	15.00 kW	14.00 kW
SCOP	4.46	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	12.80 kW	12.50 kW
COP Tj = -7°C	2.83	2.03
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.80 kW	7.60 kW
COP Tj = +2°C	4.34	3.34
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.80 kW	5.70 kW
COP Tj = +7°C	5.67	4.14
Cdh Tj = +7 °C	0.981	0.990
Pdh Tj = 12°C	6.70 kW	6.60 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = 12°C	7.94	6.15
Cdh Tj = +12 °C	0.977	0.980
Pdh Tj = Tbiv	12.80 kW	12.50 kW
COP Tj = Tbiv	2.83	2.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.80 kW	12.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.93
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6720 kWh	8659 kWh

Cooling

EN 14511-2	
	+7°C/+12°C
El input	4.88 kW
Cooling capacity	15.04
EER	3.08

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EN 14825	
	+7°C/+12°C
P _{designc}	15.04 kW
SEER	4.91
P _{dc} T _j = 35°C	15.04 kW
EER T _j = 35°C	3.08
P _{dc} T _j = 30°C	10.96 kW
EER T _j = 30°C	4.38
C _{dc}	1.0
P _{dc} T _j = 25°C	7.06 kW
EER T _j = 25°C	5.52
C _{dc}	1.0
P _{dc} T _j = 20°C	5.54 kW
EER T _j = 20°C	6.80
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1837 kWh

Model: HP60-16TR / AHP60-16TR

Configure model	
Model name	HP60-16TR / AHP60-16TR
Application	Heating (medium temp)
Units	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	16.30 kW	15.63 kW
El input	3.49 kW	5.18 kW
COP	4.67	3.02

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	126 %
Prated	14.00 kW	13.00 kW
SCOP	4.49	3.22
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.88	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.33	3.06
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.70 kW	5.50 kW
COP Tj = +7°C	5.83	4.11
Cdh Tj = +7 °C	0.981	0.986

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Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.12	6.30
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.88	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6209 kWh	8357 kWh

Cooling

EN 14511-2

	+7°C/+12°C
El input	4.38 kW
Cooling capacity	13.80
EER	3.15

EN 14825

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	+7°C/+12°C
P _{designc}	13.80 kW
SEER	4.80
P _{dc} T _j = 35°C	13.80 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	10.17 kW
EER T _j = 30°C	4.36
C _{dc}	1.0
P _{dc} T _j = 25°C	6.47 kW
EER T _j = 25°C	5.30
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.67
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1726 kWh

Model: HPS60-16 / AHPS60-16

Configure model	
Model name	HPS60-16 / AHPS60-16
Application	Heating (medium temp)
Units	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	8.65 kW	8.29 kW
El input	1.68 kW	2.49 kW
COP	5.15	3.32

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186 %	133 %
Prated	13.00 kW	13.00 kW
SCOP	4.72	3.39
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	11.90 kW	11.50 kW
COP Tj = -7°C	2.98	2.16
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.56	3.23
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.80 kW	5.70 kW
COP Tj = +7°C	6.17	4.34
Cdh Tj = +7 °C	0.980	0.985

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.70	6.75
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	11.90 kW	11.50 kW
COP Tj = Tbiv	2.98	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.40 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.98
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5882 kWh	7914 kWh

Cooling

EN 14511-2

	+7°C/+12°C
El input	4.38 kW
Cooling capacity	13.80
EER	3.15

EN 14825

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	+7°C/+12°C
P _{designc}	13.80 kW
SEER	4.80
P _{dc} T _j = 35°C	13.80 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	10.17 kW
EER T _j = 30°C	4.36
C _{dc}	1.0
P _{dc} T _j = 25°C	6.47 kW
EER T _j = 25°C	5.30
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.67
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1726 kWh

Model: HPS60-16TR / AHPS60-16TR

Configure model	
Model name	HPS60-16TR / AHPS60-16TR
Application	Heating (medium temp)
Units	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	8.65 kW	8.29 kW
El input	1.68 kW	2.49 kW
COP	5.15	3.32

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186 %	133 %
Prated	13.00 kW	13.00 kW
SCOP	4.72	3.39
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	11.90 kW	11.50 kW
COP Tj = -7°C	2.98	2.16
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.56	3.23
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.80 kW	5.70 kW
COP Tj = +7°C	6.17	4.34
Cdh Tj = +7 °C	0.980	0.985

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.70	6.75
Cdh Tj = +12 °C	0.975	0.981
Pdh Tj = Tbiv	11.90 kW	11.50 kW
COP Tj = Tbiv	2.98	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.40 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.98
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5882 kWh	7914 kWh

Cooling

EN 14511-2

	+7°C/+12°C
El input	4.38 kW
Cooling capacity	13.80
EER	3.15

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	+7°C/+12°C
P _{designc}	13.80 kW
SEER	4.80
P _{dc} T _j = 35°C	13.80 kW
EER T _j = 35°C	3.15
P _{dc} T _j = 30°C	10.17 kW
EER T _j = 30°C	4.36
C _{dc}	1.0
P _{dc} T _j = 25°C	6.47 kW
EER T _j = 25°C	5.30
C _{dc}	1.0
P _{dc} T _j = 20°C	5.53 kW
EER T _j = 20°C	6.67
C _{dc}	1.0
P _{off}	19 W
PTO	0 W
PSB	19 W
PCK	30 W
Annual energy consumption Q _{ce}	1726 kWh