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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

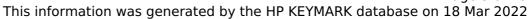
Configure model		
Model name	HP60-16 / AHP60-16	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

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
СОР	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





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
$\eta_{s}$	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
РТО	22 W	22 W
PSB	19 W	19 W
PCK	o 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	
Pdesignc	13.80 kW	
SEER	4.80	
Pdc Tj = 35°C	13.80 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	10.17 kW	
EER Tj = 30°C	4.36	
Cdc	1.0	
Pdc Tj = 25°C	6.47 kW	
EER Tj = 25°C	5.30	
Cdc	1.0	
Pdc Tj = 20°C	5.53 kW	
EER Tj = 20°C	6.67	
Cdc	1.0	
Poff	19 W	
РТО	0 W	
PSB	19 W	
PCK	30 W	
Annual energy consumption Qce	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
СОР	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



EN 12102-1		
Low temperature Medium temperature		
Sound power level outdoor	68 dB(A)	68 dB(A)

	EN 14825	
	Low temperature	Medium temperature
$\eta_{s}$	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

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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
РТО	22 W	22 W
PSB	19 W	19 W
PCK	o 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	



EN 14825		
	+7°C/+12°C	
Pdesignc	15.04 kW	
SEER	4.91	
Pdc Tj = 35°C	15.04 kW	
EER Tj = 35°C	3.08	
Pdc Tj = 30°C	10.96 kW	
EER Tj = 30°C	4.38	
Cdc	1.0	
Pdc Tj = 25°C	7.06 kW	
EER Tj = 25°C	5.52	
Cdc	1.0	
Pdc Tj = 20°C	5.54 kW	
EER Tj = 20°C	6.80	
Cdc	1.0	
Poff	19 W	
РТО	o w	
PSB	19 W	
РСК	30 W	
Annual energy consumption Qce	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		Medium temperature
Heat output	16.30 kW	15.63 kW
El input	3.49 kW	5.18 kW
СОР	4.67	3.02

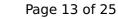
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



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
$\eta_{s}$	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

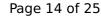
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Pdh Tj = 12°C	6.70 kW	6.60 kW
COP Tj = 12°C	8.12	6.30
Cdh Tj = +12 °C	0.977	0.982
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.88	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.94
WTOL	60 °C	60 °C
Poff	19 W	19 W
РТО	22 W	22 W
PSB	19 W	19 W
PCK	o 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

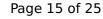
# Cooling





EN 14511-2	
	+7°C/+12°C
El input	4.38 kW
Cooling capacity	13.80
EER	3.15

#### EN 14825





TMARK database on 16 Mai 2022
+7°C/+12°C
13.80 kW
4.80
13.80 kW
3.15
10.17 kW
4.36
1.0
6.47 kW
5.30
1.0
5.53 kW
6.67
1.0
19 W
0 W
19 W
30 W
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
СОР	5.15	3.32

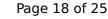
EN 14511-4	
Shutting off the heat transfer medium flow	naccod
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





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)

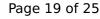
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	186 %	133 %
Prated	13.00 kW	13.00 kW
SCOP	4.72	3.39
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	11.90 kW	11.50 kW
COP Tj = -7°C	2.98	2.16
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.30 kW	6.90 kW
COP Tj = +2°C	4.56	3.23
Cdh Tj = +2 °C	1.000	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





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
РТО	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





TMARK database on 16 Mai 202
+7°C/+12°C
13.80 kW
4.80
13.80 kW
3.15
10.17 kW
4.36
1.0
6.47 kW
5.30
1.0
5.53 kW
6.67
1.0
19 W
0 W
19 W
30 W
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
СОР	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	

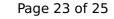




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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

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This information was generated by the HP KEYMARK database on 18 Mar 2022 Pdh Tj = 12°C 6.70 kW 6.60 kW  $COPTj = 12^{\circ}C$ 8.70 6.75 Cdh Tj = +12 °C 0.975 0.981 Pdh Tj = Tbiv11.90 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

### Cooling

Annual energy consumption Qhe

5882 kWh

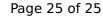
7914 kWh





EN 14511-2		
	+7°C/+12°C	
El input	4.38 kW	
Cooling capacity	13.80	
EER	3.15	

#### EN 14825





Inis information was generated by the HP KEYMARK database on 18 Mar 20	
	+7°C/+12°C
Pdesignc	13.80 kW
SEER	4.80
Pdc Tj = 35°C	13.80 kW
EER Tj = 35°C	3.15
Pdc Tj = 30°C	10.17 kW
EER Tj = 30°C	4.36
Cdc	1.0
Pdc Tj = 25°C	6.47 kW
EER Tj = 25°C	5.30
Cdc	1.0
Pdc Tj = 20°C	5.53 kW
EER Tj = 20°C	6.67
Cdc	1.0
Poff	19 W
РТО	o w
PSB	19 W
РСК	30 W
Annual energy consumption Qce	1726 kWh