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#### **Login**

Summary of	Áurea+ HP60 10/12 / AHP60 10/12	Reg. No.	ICIM-PDC-000123-00
Certificate Holder	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 10/12 / AHP60 10/12		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	2.5 kg		
Certification Date	e 18.10.2021		
Testing basis HP KEYMARK certification scheme rules rev. no. 7			



# Model: HP60-12 / AHP60-12

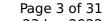
Configure model		
Model name	HP60-12 / AHP60-12	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply	1x230V 50Hz	

# Cooling

EN 14511-2	
+7°C/+12°C	
El input	2.79 kW
Cooling capacity	8.51
EER	3.05

### EN 14825





	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.25
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	1.0
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	1.0
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.32
Cdc	1.0
Poff	19 W
РТО	o w
PSB	19 W
PCK	30 W
Annual energy consumption Qce	1202 kWh

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.80 kW	11.37 kW
El input	2.73 kW	4.10 kW
СОР	4.32	2.78

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 outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	131 %
Prated	10.00 kW	10.00 kW





SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh Tj = +7 °C	0.974	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.969	0.980
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
WTOL	60 °C	60 °C
Poff	19 W	19 W



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РТО	22 W	22 W
PSB	19 W	19 W
PCK	o w	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4630 kWh	5941 kWh



# Model: HP60-10 / AHP60-10

Configure model		
Model name	HP60-10 / AHP60-10	
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	

# Cooling

EN 14511-2		
+7°C/+12°C		
El input	2.39 kW	
Cooling capacity	7.53	
EER	3.15	

### EN 14825





+7°C/+12°C 7.53 kW **Pdesignc SEER** 4.15  $Pdc Tj = 35^{\circ}C$ 7.53 kW 3.15 EER Tj = 35°C  $Pdc Tj = 30^{\circ}C$ 5.49 kW EER Tj = 30°C 3.92 Cdc 1.0  $Pdc Tj = 25^{\circ}C$ 3.56 kW 4.46 EER Tj = 25°C Cdc 1.0  $Pdc Tj = 20^{\circ}C$ 4.35 kW 6.36 EER Tj = 20°C Cdc 1.0 Poff 19 W PTO 0 W **PSB** 19 W **PCK** 30 W Annual energy consumption Qce 1089 kWh

## Heating



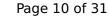
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.10 kW	9.73 kW
El input	2.28 kW	3.50 kW
СОР	4.43	2.78

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 outdoor	64 dB(A)	64 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	178 %	135 %
Prated	9.00 kW	9.00 kW





SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.30 kW	8.10 kW
COP Tj = -7°C	2.93	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
$COP Tj = +2^{\circ}C$	4.32	3.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.20 kW	4.10 kW
$COP Tj = +7^{\circ}C$	6.01	4.30
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
WTOL	60 °C	60 °C
Poff	19 W	19 W



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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	4293 kWh	5462 kWh



# Model: HP60-10TR / AHP60-10TR

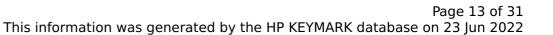
Configure model		
Model name	HP60-10TR / AHP60-10TR	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply	3x400V 50Hz	

## Cooling

EN 14511-2		
+7°C/+12°C		
El input	2.39 kW	
Cooling capacity	7.53	
EER	3.15	

### EN 14825





	+7°C/+12°C
Pdesignc	7.53 kW
SEER	4.15
Pdc Tj = 35°C	7.53 kW
EER Tj = 35°C	3.15
Pdc Tj = 30°C	5.49 kW
EER Tj = 30°C	3.92
Cdc	1.0
Pdc Tj = 25°C	3.56 kW
EER Tj = 25°C	4.46
Cdc	1.0
Pdc Tj = 20°C	4.35 kW
EER Tj = 20°C	6.36
Cdc	1.0
Poff	19 W
PTO	o w
PSB	19 W
PCK	30 W
Annual energy consumption Qce	1089 kWh

## Heating



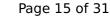
EN 14511-2			
Low temperature Medium temperature			
Heat output	10.10 kW	9.73 kW	
El input	2.28 kW	3.50 kW	
СОР	4.43	2.78	

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 outdoor	64 dB(A)	64 dB(A)	

EN 14825			
Low temperature Medium temperature			
$\eta_{S}$	178 %	135 %	
Prated	9.00 kW	9.00 kW	





SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.30 kW	8.10 kW
COP Tj = -7°C	2.93	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.20 kW	4.10 kW
$COP Tj = +7^{\circ}C$	6.01	4.30
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
WTOL	60 °C	60 °C
Poff	19 W	19 W
		-



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PTO	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	4293 kWh	5462 kWh



# **Model: HP60-12TR / AHP60-12TR**

Configure model			
Model name	HP60-12TR / AHP60-12TR		
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		

## Cooling

EN 14511-2		
+7°C/+12°C		
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

### EN 14825





+7°C/+12°C **Pdesignc** 8.51 kW **SEER** 4.25  $Pdc Tj = 35^{\circ}C$ 8.51 kW 3.05 EER Tj = 35°C  $Pdc Tj = 30^{\circ}C$ 6.28 kW EER Tj = 30°C 4.03 Cdc 1.0  $Pdc Tj = 25^{\circ}C$ 3.98 kW 4.58 EER Tj = 25°C Cdc 1.0  $Pdc Tj = 20^{\circ}C$ 4.23 kW 6.32 EER Tj = 20°C Cdc 1.0 Poff 19 W PTO 0 W **PSB** 19 W **PCK** 30 W Annual energy consumption Qce 1202 kWh

## Heating

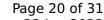
EN 14511-2			
Low temperature Medium temperature			
Heat output	11.80 kW	11.37 kW	
El input	2.73 kW	4.10 kW	
СОР	4.32	2.78	

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 outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	176 %	131 %
Prated	10.00 kW	10.00 kW





TOL $-20 ^{\circ}\text{C}$ $-15 ^{\circ}\text{C}$ Pdh Tj = $-7^{\circ}\text{C}$ $8.90 \text{kW}$ $8.50 \text{kW}$ COP Tj = $-7^{\circ}\text{C}$ $2.88$ $2.08$ Cdh Tj = $-7 ^{\circ}\text{C}$ $1.000$ $1.000$ Pdh Tj = $+2^{\circ}\text{C}$ $5.40 \text{kW}$ $5.20 \text{kW}$ COP Tj = $+2^{\circ}\text{C}$ $4.31$ $3.35$ Cdh Tj = $+2 ^{\circ}\text{C}$ $1.000$ $1.000$ Pdh Tj = $+7^{\circ}\text{C}$ $4.30 \text{kW}$ $4.20 \text{kW}$ COP Tj = $+7^{\circ}\text{C}$ $5.82$ $4.24$ Cdh Tj = $+7 ^{\circ}\text{C}$ $0.974$ $0.981$	SCOP	4.47	3.36
Pdh Tj = -7°C	Tbiv	-7 °C	-7 °C
COP Tj = -7°C  2.88  2.08  Cdh Tj = -7 °C  1.000  1.000  1.000  Pdh Tj = +2°C  5.40 kW  5.20 kW  COP Tj = +2°C  4.31  3.35  Cdh Tj = +2 °C  1.000  1.000  Pdh Tj = +7°C  4.30 kW  4.20 kW  COP Tj = +7°C  5.82  4.24  Cdh Tj = +7 °C  9.974  0.981  Pdh Tj = 12°C  4.90 kW  4.80 kW  COP Tj = 12°C  7.81  5.31  Cdh Tj = +12 °C  9.969  0.979  Pdh Tj = Tbiv  8.90 kW  8.50 kW  COP Tj = Tbiv  2.88  2.08  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 8.80 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.64  WTOL  60 °C  60 °C	TOL	-20 °C	-15 °C
Cdh Tj = -7 °C  1.000  1.000  Pdh Tj = +2°C  5.40 kW  5.20 kW  COP Tj = +2°C  4.31  3.35  Cdh Tj = +2 °C  1.000  1.000  Pdh Tj = +7°C  4.30 kW  4.20 kW  COP Tj = +7°C  5.82  4.24  Cdh Tj = +7 °C  0.974  0.981  Pdh Tj = 12°C  4.90 kW  4.80 kW  COP Tj = 12°C  7.81  5.31  Cdh Tj = +12 °C  0.969  0.979  Pdh Tj = Tbiv  8.90 kW  8.50 kW  COP Tj = Tbiv  2.88  2.08  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  8.80 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  WTOL  60 °C  60 °C	Pdh Tj = -7°C	8.90 kW	8.50 kW
Pdh Tj = +2°C       5.40 kW       5.20 kW         COP Tj = +2°C       4.31       3.35         Cdh Tj = +2 °C       1.000       1.000         Pdh Tj = +7°C       4.30 kW       4.20 kW         COP Tj = +7°C       5.82       4.24         Cdh Tj = +7 °C       0.974       0.981         Pdh Tj = 12°C       4.90 kW       4.80 kW         COP Tj = 12°C       7.81       5.31         Cdh Tj = +12 °C       0.969       0.979         Pdh Tj = Tbiv       8.90 kW       8.50 kW         COP Tj = Tbiv       2.88       2.08         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = -7°C	2.88	2.08
COP Tj = +2°C	Cdh Tj = -7 °C	1.000	1.000
Cdh Tj = +2 °C	Pdh Tj = +2°C	5.40 kW	5.20 kW
Pdh Tj = +7°C	COP Tj = +2°C	4.31	3.35
COP Tj = +7°C 5.82 4.24  Cdh Tj = +7°C 0.974 0.981  Pdh Tj = 12°C 4.90 kW 4.80 kW  COP Tj = 12°C 7.81 5.31  Cdh Tj = +12 °C 0.969 0.979  Pdh Tj = Tbiv 8.90 kW 8.50 kW  COP Tj = Tbiv 2.88 2.08  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 8.80 kW 8.70 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 1.96  WTOL 60 °C 60 °C	Cdh Tj = +2 °C	1.000	1.000
Cdh Tj = +7 °C       0.974       0.981         Pdh Tj = 12°C       4.90 kW       4.80 kW         COP Tj = 12°C       7.81       5.31         Cdh Tj = +12 °C       0.969       0.979         Pdh Tj = Tbiv       8.90 kW       8.50 kW         COP Tj = Tbiv       2.88       2.08         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
Pdh Tj = 12°C       4.90 kW       4.80 kW         COP Tj = 12°C       7.81       5.31         Cdh Tj = +12 °C       0.969       0.979         Pdh Tj = Tbiv       8.90 kW       8.50 kW         COP Tj = Tbiv       2.88       2.08         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	$COPTj = +7^{\circ}C$	5.82	4.24
COP Tj = 12°C  7.81  5.31  Cdh Tj = +12 °C  0.969  0.979  Pdh Tj = Tbiv  8.90 kW  8.50 kW  COP Tj = Tbiv  2.88  2.08  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  8.80 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  2.64  WTOL  60 °C  60 °C	Cdh Tj = +7 °C	0.974	0.981
Cdh Tj = +12 °C       0.969       0.979         Pdh Tj = Tbiv       8.90 kW       8.50 kW         COP Tj = Tbiv       2.88       2.08         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = 12°C	4.90 kW	4.80 kW
Pdh Tj = Tbiv       8.90 kW       8.50 kW         COP Tj = Tbiv       2.88       2.08         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	7.81	5.31
COP Tj = Tbiv $ 2.88 \qquad 2.08 $ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $ 8.80 \text{ kW} \qquad 8.70 \text{ kW} $ COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh $ 2.64 \qquad 1.96 $ WTOL $ 60 \text{ °C} \qquad 60 \text{ °C} $	Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  8.80 kW  8.70 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh  2.64  WTOL  60 °C  60 °C	Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.64 1.96  WTOL 60 °C 60 °C	COP Tj = Tbiv	2.88	2.08
WTOL 60 °C 60 °C	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Poff 19 W 19 W	WTOL	60 °C	60 °C
	Poff	19 W	19 W



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PTO	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	4630 kWh	5941 kWh



# Model: HPS60-12 / AHPS60-12

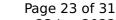
Configure model		
Model name	HPS60-12 / AHPS60-12	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data	
Power supply 1x230V 50Hz	

## Cooling

EN 14511-2		
+7°C/+12°C		
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

### EN 14825





	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.25
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	1.0
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	1.0
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.32
Cdc	1.0
Poff	19 W
PTO	o w
PSB	19 W
PCK	30 W
Annual energy consumption Qce	1202 kWh

## Heating



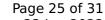
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.35 kW	7.08 kW
El input	1.52 kW	2.28 kW
СОР	4.84	3.11

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 outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	135 %
Prated	10.00 kW	10.00 kW





SCOP	4.58	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.70 kW	8.40 kW
COP Tj = -7°C	2.90	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
$COP Tj = +2^{\circ}C$	4.42	3.44
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COP Tj = +7^{\circ}C$	6.14	4.47
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.00	5.44
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	8.70 kW	8.40 kW
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.40 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C



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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	4453 kWh	5709 kWh



# Model: HPS60-12TR / AHPS60-12TR

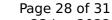
Configure model			
Model name	HPS60-12TR / AHPS60-12TR		
Application	Heating (medium temp)		
Units	Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	+7°C/12°C		

General Data		
Power supply 3x400V 50Hz		

## Cooling

EN 14511-2		
	+7°C/+12°C	
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

### EN 14825





	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.25
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	1.0
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	1.0
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.32
Cdc	1.0
Poff	19 W
РТО	o w
PSB	19 W
PCK	30 W
Annual energy consumption Qce	1202 kWh

## Heating



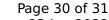
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.35 kW	7.08 kW
El input	1.52 kW	2.28 kW
СОР	4.84	3.11

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 outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	180 %	135 %
Prated	10.00 kW	10.00 kW





SCOP	4.58	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.70 kW	8.40 kW
COP Tj = -7°C	2.90	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.30 kW	5.20 kW
COP Tj = +2°C	4.42	3.44
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COP Tj = +7^{\circ}C$	6.14	4.47
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.00	5.44
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	8.70 kW	8.40 kW
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.40 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C



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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	4453 kWh	5709 kWh