



**ENERG** Y IJA  
 енергия · ενεργεια IE IA

Air Site®

GREENMASTER - HP-2-12



55 °C

35 °C



**A++**

**A++**



**64** dB



dB

■ 13  
 ■ 14  
 ■ 13  
 kW

■ 13  
 ■ 14  
 ■ 13  
 kW



2015

811/2013



# ENERG

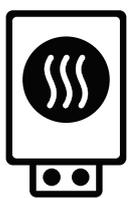
енергия · ενεργεια



Air-Site®

## GREENMASTER - HP-2-12

 35 °C



**A<sup>++</sup>**

A<sup>+++</sup>

A<sup>++</sup>

**A<sup>++</sup>**

A<sup>+</sup>

A

B

C

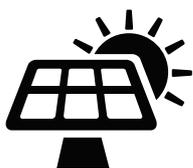
D

E

F

G

+



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+



+





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Y

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Air-Site®

## GREENMASTER - HP-2-12

 55 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

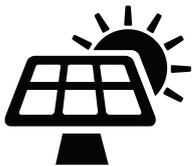
D

E

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G

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## Product fiche

Supplier's name:	Air-Site		
Model:	GreenMaster - HP-2-12		
Temperature application	35	55	°C
Declared load profile for water heating			
Seasonal space heating energy efficiency class, average climate:	<b>A++</b>	<b>A++</b>	
Water heating energy efficiency class, average climate:			
Rated heat output, average climate:	14	14	kW
Annual energy consumption for space heating, average climate	6728	7395	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	169	153	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	64	64	dB
Rated heat output, cold climate:	13	13	kW
Rated heat output, warm climate:	12	12	kW
Annual energy consumption for space heating, cold climate	6450	7459	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	3430	3897	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	196	169	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	184	162	%
Water heating energy efficiency, warm climate:			%
Sound power level LWA outdoors	-	-	dB

## Data for package fiche

Controller class	IV		
Controller contribution to efficiency	2		%
Seasonal space heating energy efficiency of package, average climate:	171	155	%
Seasonal space heating energy efficiency class for package, average climate:	<b>A++</b>	<b>A+++</b>	%
Seasonal space heating energy efficiency of package, cold climate:	198	171	%
Seasonal space heating energy efficiency of package, warm climate:	186	164	%

<b>Model(s):</b>		<b>GreenMaster - HP-2-12</b>										
Type of heat source/sink:		Exhaust air-to-water										
Low-temperature heat pump:		No										
Equipped with supplementary heater:		No										
Heat pump combination heater:		No										
Climate condition:		Average										
Temperature application:		Medium temperature (55 °C)										
Applied standards: EN14825, EN14511 and EN12102												
<b>Rated heat output</b>		Prated	14,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	153	%			
<i>Declared capacity for part load at outdoor temperature Tj</i>				<i>Declared coefficient of performance for part load at outdoor temperature Tj</i>								
Tj = -7 °C	Pdh	9,3	kW	Tj = -7 °C	COPd	3,45	kW					
Tj = +2 °C	Pdh	7,6	kW	Tj = +2 °C	COPd	4,30	kW					
Tj = +7 °C	Pdh	4,9	kW	Tj = +7 °C	COPd	5,18	kW					
Tj = +12 °C	Pdh	3,5	kW	Tj = +12 °C	COPd	5,59	kW					
Tj = biv	Pdh	8,7	kW	Tj = biv	COPd	4,08	kW					
Tj = TOL	Pdh	9,5	kW	Tj = TOL	COPd	3,27	kW					
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW					
Bivalent temperature				T <sub>biv</sub>	0	°C		Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating				P <sub>cyh</sub>		kW		Cycling interval efficiency		COP <sub>cyh</sub>		-
Degradation co-efficient				Cdh	0,95	-		Heating water operating limit		WTOL	65	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>								
Off mode	P <sub>OFF</sub>	0,01	kW	Rated heat output		P <sub>sup</sub>	0,0	kW				
Thermostat-off mode	P <sub>TO</sub>	0,065	kW	Type of energy input		-						
Standby mode	P <sub>SB</sub>	0,01	kW									
Crankcase heater mode	P <sub>CK</sub>	0,035	kW									
<i>Other items</i>												
Capacity control		variable		Rated air flow rate, outdoors			1080	m <sup>3</sup> /h				
Sound power level, indoors/outdoors		L <sub>WA</sub>	64/-	Rated brine or water flow rate, outdoor heat exchanger			-	m <sup>3</sup> /h				
Annual energy consumption		Q <sub>HE</sub>	7395	kWh								
<i>For heat pump combination heater:</i>												
<b>Declared load profile</b>				<b>Water heating energy efficiency</b>		$\eta_{wh}$		%				
Daily electricity consumption				Q <sub>elec</sub>		kWh		Daily fuel consumption		Q <sub>fuel</sub>		kWh
Annual electricity consumption				AEC		kWh		Annual fuel consumption		AFC		GJ
<b>Approved by:</b>												
<b>Contact details</b>		<b>Air-Site AB - Elementvägen 1 - 437 36 Lindome - Sweden</b>										