



**ENERG**  
енергия · ενεργεια



Air Site®

GREENMASTER - HP-2-16



55 °C

35 °C



**A++**

**A++**



**67** dB



dB

■ 23  
■ **23**  
■ 21  
kW

■ 23  
■ **23**  
■ 21  
kW



2015

811/2013



# ENERG

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Y

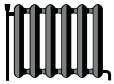
IJA

IE

IA

Air-Site®

## GREENMASTER - HP-2-16



35 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

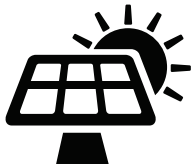
D

E

F

G

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+



+



+





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Y

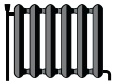
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## GREENMASTER - HP-2-16



55 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

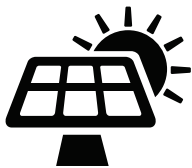
D

E

F

G

+



+



+



+




## Product fiche

Supplier's name:	Air-Site		
Model:	GreenMaster - HP-2-16		
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:	23	23	kW
Annual energy consumption for space heating, average climate	11008	12108	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	170	154	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	67	67	dB
Rated heat output, cold climate:	23	23	kW
Rated heat output, warm climate:	21	21	kW
Annual energy consumption for space heating, cold climate	11687	13585	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	6065	6963	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	191	164	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	182	158	%
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:	172	156	%
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:	193	166	%
Seasonal space heating energy efficiency of package, warm climate:	184	160	%

<b>Model(s):</b>		<b>GreenMaster - HP-2-16</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	23,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	154	%				
<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	16,2	kW	Tj = -7 °C	COPd	3,24	kW						
Tj = +2 °C	Pdh	12,5	kW	Tj = +2 °C	COPd	4,18	kW						
Tj = +7 °C	Pdh	8,1	kW	Tj = +7 °C	COPd	5,15	kW						
Tj = +12 °C	Pdh	7,3	kW	Tj = +12 °C	COPd	5,39	kW						
Tj = biv	Pdh	15,1	kW	Tj = biv	COPd	3,69	kW						
Tj = TOL	Pdh	16,6	kW	Tj = TOL	COPd	3,06	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>	-1	°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	0,97	-		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>	0,08	kW	Type of energy input		-							
Standby mode	P <sub>SB</sub>	0,01	kW	Rated air flow rate, outdoors				1908	m <sup>3</sup> /h				
Crankcase heater mode	P <sub>CK</sub>	0,035	kW	Sound power level, indoors/outdoors		L <sub>WA</sub>	67/-	dB		Rated brine or water flow rate, outdoor heat exchanger		-	m <sup>3</sup> /h
<i>Other items</i>				Capacity control		variable							
Annual energy consumption				Q <sub>HE</sub>	12108	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>		
Annual electricity consumption				AEC			kWh		Annual fuel consumption		AFC		
<b>Approved by:</b>													
<b>Contact details</b>		<b>Air-Site AB - Elementvägen 1 - 437 36 Lindome - Sweden</b>											