



ENERG
енергия · ενεργεια

Y IJA
IE IA

Air Site®

GREENMASTER - HP-4-16-12



55 °C

35 °C



A++

A++



63 dB



dB

■ 43
■ 45
■ 41
kW

■ 43
■ 45
■ 41
kW



2015

811/2013



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35 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

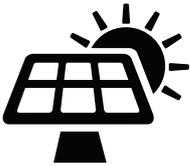
D

E

F

G

+



+



+



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GREENMASTER - HP-4-16-12



55 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

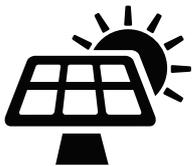
D

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Product fiche

Supplier's name:	Air-Site		
Model:	GreenMaster - HP-4-16-12		
Temperature application	35	55	°C
Declared load profile for water heating			
Seasonal space heating energy efficiency class, average climate:	A++	A++	
Water heating energy efficiency class, average climate:			
Rated heat output, average climate:	45	45	kW
Annual energy consumption for space heating, average climate	21246	23509	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	172	155	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	63	63	dB
Rated heat output, cold climate:	43	43	kW
Rated heat output, warm climate:	41	41	kW
Annual energy consumption for space heating, cold climate	21257	24680	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	11419	12983	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:	189	166	%
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:	174	157	%
Seasonal space heating energy efficiency class for package, average climate:	A++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	198	171	%
Seasonal space heating energy efficiency of package, warm climate:	191	168	%

Model(s):		GreenMaster - HP-4-16-12									
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											
Rated heat output		Prated	45,0	kW	Seasonal space heating energy efficiency		η_s	155	%		
<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	30,3	kW	Tj = -7 °C	COPd	3,36	kW				
Tj = +2 °C	Pdh	24,2	kW	Tj = +2 °C	COPd	4,40	kW				
Tj = +7 °C	Pdh	15,6	kW	Tj = +7 °C	COPd	5,12	kW				
Tj = +12 °C	Pdh	8,2	kW	Tj = +12 °C	COPd	6,10	kW				
Tj = biv	Pdh	27,8	kW	Tj = biv	COPd	4,00	kW				
Tj = TOL	Pdh	30,1	kW	Tj = TOL	COPd	3,18	kW				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW				
Bivalent temperature				T _{biv}	0	°C	Operation limit temperature				
Cycling interval capacity for heating				P _{cyh}		kW	Cycling interval efficiency		COP _{cyh}	-	
Degradation co-efficient				Cdh	0,96	-	Heating water operating limit		WTOL	65	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>							
Off mode	P _{OFF}	0,012	kW	Rated heat output		P _{sup}	0,0	kW			
Thermostat-off mode	P _{TO}	0,145	kW								
Standby mode	P _{SB}	0,01	kW	Type of energy input		-					
Crankcase heater mode	P _{CK}	0,09	kW								
<i>Other items</i>											
Capacity control	variable			Rated air flow rate, outdoors			3240	m ³ /h			
Sound power level, indoors/outdoors	L _{WA}	63/-	dB								
Annual energy consumption	Q _{HE}	23509	kWh	Rated brine or water flow rate, outdoor heat exchanger			-	m ³ /h			
<i>For heat pump combination heater:</i>											
Declared load profile				Water heating energy efficiency		η_{wh}		%			
Daily electricity consumption				Q _{elec}		kWh	Daily fuel consumption		Q _{fuel}		kWh
Annual electricity consumption				AEC		kWh	Annual fuel consumption		AFC		GJ
Approved by:											
Contact details		Air-Site AB - Elementvägen 1 - 437 36 Lindome - Sweden									