



**ENERG**  
енергия · ενεργεια



Air Site®

GREENMASTER - HP-4-16-20



55 °C

35 °C



**A++**

**A++**



**68** dB



dB

■ 62  
■ **62**  
■ 58  
kW

■ 62  
■ **62**  
■ 58  
kW



2015

811/2013



# ENERG

енергия · ενεργεια

Y

IJA

IE

IA

Air-Site®

## GREENMASTER - HP-4-16-20

 35 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

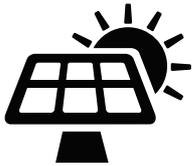
D

E

F

G

+



+



+



+





# ENERG

енергия · ενέργεια

Y

IJA

IE

IA

Air-Site®

## GREENMASTER - HP-4-16-20



55 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

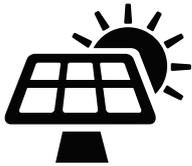
D

E

F

G

+



+



+



+



## Product fiche

Supplier's name:	Air-Site		
Model:	GreenMaster - HP-4-16-20		
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:	62	62	kW
Annual energy consumption for space heating, average climate	30147	33255	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	167	151	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	68	68	dB
Rated heat output, cold climate:	62	62	kW
Rated heat output, warm climate:	58	58	kW
Annual energy consumption for space heating, cold climate	31543	36964	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	16705	19128	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	191	162	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	183	159	%
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:	169	153	%
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	164	%
Seasonal space heating energy efficiency of package, warm climate:	185	161	%

<b>Model(s):</b>		<b>GreenMaster - HP-4-16-20</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	62,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	151	%			
<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	40,2	kW	Tj = -7 °C	COPd	3,35	kW					
Tj = +2 °C	Pdh	33,4	kW	Tj = +2 °C	COPd	4,30	kW					
Tj = +7 °C	Pdh	21,6	kW	Tj = +7 °C	COPd	4,57	kW					
Tj = +12 °C	Pdh	9,6	kW	Tj = +12 °C	COPd	5,83	kW					
Tj = biv	Pdh	40,6	kW	Tj = biv	COPd	3,78	kW					
Tj = TOL	Pdh	39,3	kW	Tj = TOL	COPd	3,22	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>	0,012	kW	Rated heat output		P <sub>sup</sub>	0,0	kW				
Thermostat-off mode	P <sub>TO</sub>	0,17	kW	Type of energy input		-						
Standby mode	P <sub>SB</sub>	0,01	kW	Rated air flow rate, outdoors			4680	m <sup>3</sup> /h				
Crankcase heater mode	P <sub>CK</sub>	0,09	kW	Rated brine or water flow rate, outdoor heat exchanger			-	m <sup>3</sup> /h				
<i>Other items</i>				Capacity control		variable						
Sound power level, indoors/outdoors				L <sub>WA</sub>	68/-	dB						
Annual energy consumption				Q <sub>HE</sub>	33255	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>										