



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

енергия · ενέργεια

Y

IJA

IE

IA

Air-Site®

GREENMASTER - HP-2-16

 35 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

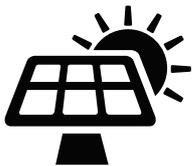
D

E

F

G

+



+



+



+





ENERG

енергия · ενέργεια

Y

IJA

IE

IA

Air-Site®

GREENMASTER - HP-2-16



55 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

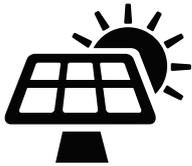
D

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: | A++ | A++ | |
| 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: | A++ | A+++ | % |
| Seasonal space heating energy efficiency of package, cold climate: | 193 | 166 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 184 | 160 | % |

| | | | | | | | | | |
|--|------------------|---|------|---|---|------------------|----------|-------------------------------|-------------------------|
| Model(s): | | GreenMaster - HP-2-16 | |  | | | | | |
| 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 | 23,0 | kW | Seasonal space heating energy efficiency | | η_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 _{biv} | -1 | °C | | Operation limit temperature | |
| Cycling interval capacity for heating | | | | P _{cyh} | | kW | | Cycling interval efficiency | |
| 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 _{OFF} | 0,01 | kW | Rated heat output | | P _{sup} | 0,0 | kW | |
| Thermostat-off mode | P _{TO} | 0,08 | kW | | | | | | |
| Standby mode | P _{SB} | 0,01 | kW | Type of energy input | | - | | | |
| Crankcase heater mode | P _{CK} | 0,035 | kW | | | | | | |
| <i>Other items</i> | | | | | | | | | |
| Capacity control | variable | | | Rated air flow rate, outdoors | | 1908 | | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 67/- | dB | | | | | | |
| Annual energy consumption | Q _{HE} | 12108 | 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} | | | kW/h | | Daily fuel consumption |
| Annual electricity consumption | | | | AEC | | | kWh | | Annual fuel consumption |
| | | | | AFC | | | | GJ | |
| Approved by: | | | | | | | | | |
| Contact details | | Air-Site AB - Elementvägen 1 - 437 36 Lindome - Sweden | | | | | | | |