

ENERG Υ UA EHEPΓИЯ · ενεργεια II IA



METROSAVER UB 17























A

B

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IJA ENERG енергия · ενεργεια



METROSAVER UB 17























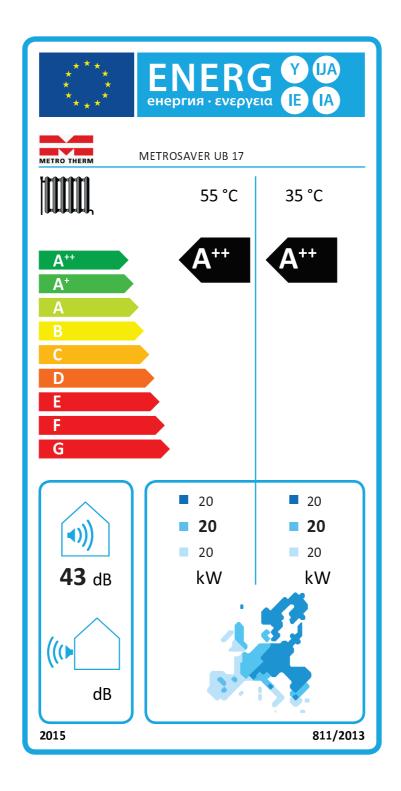


B



2015

811/2013



| Supplier's name: | METRO T | | |
|-------------------------------------------------------------------|------------------|-------|-------------|
| Model: | Metrosaver UB 17 | | |
| Temperature application | 35 | 55 | $_{\infty}$ |
| 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: | 20 | 20 | kW |
| Annual energy consumption for space heating, average climate | 9474 | 11407 | kWh |
| Annual electricity consumption for water heating, average climate | | | kWh |
| Seasonal space heating energy efficiency, average climate: | 166 | 137 | % |
| Water heating energy efficiency, average climate: | | | % |
| Sound power level LWA indoors | 43 | | dB |
| Rated heat output, cold climate: | 20 | 20 | kW |
| Rated heat output, warm climate: | 20 | 20 | kW |
| Annual energy consumption for space heating, cold climate | 11047 | 13300 | kWh |
| Annual electricity consumption for water heating, cold climate | | | kWh |
| Annual energy consumption for space heating, warm climate | 6224 | 7404 | kWh |
| Annual electricity consumption for water heating, warm climate | | | kWh |
| Seasonal space heating energy efficiency, cold climate: | 171 | 140 | % |
| Water heating energy efficiency, cold climate: | | | % |
| Seasonal space heating energy efficiency, warm climate: | 164 | 136 | % |
| Water heating energy efficiency, warm climate: | | | % |
| Sound power level LWA outdoors | | - | dB |

Data for package fiche

| Controller class | V | | |
|------------------------------------------------------------------------------|-----|-----|---|
| Controler contribution to efficiency | 3,5 | | % |
| Seasonal space heating energy efficiency of package, average climate: | 170 | 140 | % |
| Seasonal space heating energy efficiency class for package, average climate: | A++ | A++ | % |
| Seasonal space heating energy efficiency of package, cold climate: | 174 | 144 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 167 | 140 | % |

| Model(s): | Metrosaver UB 17 | |
|-------------------------------------|----------------------------|--|
| Type of heat source/sink: | Brine-to-water | |
| Low-temperature heat pump: | No | |
| Equipped with supplementary heater: | Yes | |
| Heat pump combination heater: | No | |
| Climate condition: | Average | |
| Temperature application: | Medium temperature (55 °C) | |
| | | |



| Temperature application: | | | Medium te | mperature (55 °C) | | | |
|------------------------------------------------|------------------------------------------------------------------|-------|-----------|--------------------------------------------------------|-------------------|---------------|-------|
| Applied standards: EN14825 and EN1614 | 7 | | | | | | |
| Rated heat output | Prated | 20,0 | kW | Seasonal space heating energy efficiency | η _s | 137 | % |
| Declared capacity for part load at outdoor tem | perature Tj | | | Declared coefficient of performance for par | rt load at outdoo | or temperatui | re Tj |
| Tj = -7 ℃ | Pdh | 16,0 | kW | Tj = -7 ℃ | COPd | 3,25 | kW |
| Tj = +2 ℃ | Pdh | 16,2 | kW | Tj = +2 ℃ | COPd | 3,70 | kW |
| Tj = +7 ℃ | Pdh | 16,6 | kW | Tj = +7 ℃ | COPd | 3,95 | kW |
| Tj = +12 ℃ | Pdh | 16,9 | kW | Tj = +12 ℃ | COPd | 4,16 | kW |
| Tj = biv | Pdh | 16,1 | kW | Tj = biv | COPd | 3,35 | kW |
| Tj = TOL | Pdh | 16,0 | kW | Tj = TOL | COPd | 3,08 | kW |
| Tj = -15 °C (if TOL < -20 °C) | Pdh | | kW | Tj = -15 °C (if TOL < -20 °C) | COPd | | kW |
| Bivalent temperature | T _{biv} | -4,8 | °C | Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | Pcych | | kW | Cycling interval efficiency | COPcyc | | - |
| Degradation co-efficient | Cdh | 0,99 | - | temperature | WTOL | 65 | °C |
| Power consumption in modes other than active | 1 | 0,002 | kW | Supplementary heater Rated heat output | Psup | 4,0 | kW |
| | P _{OFF} | | | Nateu Heat Output | rsup | 4,0 | KVV |
| Thermostat-off mode | P _{TO} | 0,025 | kW | | - | | |
| Standby mode | P _{SB} | 0,007 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | P _{CK} | 0,035 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | fixed | | | Rated air flow rate, outdoors | | | m³/h |
| | | | | Rated water flow rate, indoor heat | | | 0.41 |
| Sound power level, indoors/outdoors | L _{WA} | 43/- | dB | exchanger | | 1,72 | m³/h |
| Annual energy consumption | Q _{HE} | 11407 | kWh | Rated brine or water flow rate, outdoor heat exchanger | | 3,23 | m³/h |
| | | | | • | | | |
| For heat pump combination heater: | 1 | | ı | | | | ٥, |
| 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: | | | | | | | |
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