Information requirements for heat pump space heaters and heat pump combination heaters - Commission Regulation (EU) No 813/2013

| Indoor Model | Vitocal 222-A AWOT-M-E 221.A10 |
|--------------------------------------|--------------------------------|
| Outdoor Model | Vitocal 200-A AWO-M-E 201.A10 |
| Air-to-water heat pump | yes |
| Water-to-water heat pump | по |
| Brine-to-water heat pump | no |
| Low-temperature heat pump | по |
| Equipped with a supplementary heater | yes |
| Heat pump combination heater | yes |



| | - | | | |
|--|-----------------|------------------|-------------------|--------|
| Application | Low temperature | | | |
| Climate conditions | Average | | | |
| | | | | |
| Rated heat output | | Prated | 9 | kW |
| Declared capacity for heating for part load temperature 20 °C and outdoor temperatu | | | | |
| T _j = - 7 °C | | Pdh | 8.2 | kW |
| $T_j = + 2 \degree C$ | | Pdh | 5.3 | kW |
| T _j = + 7 °C | | Pdh | 6.6 | kW |
| T _j = + 12 °C | | Pdh | 6.6 | kW |
| T _j = bivalent temperature | | Pdh | 8.2 | kW |
| T _j = operation limit temperature | | Pdh | 7.5 | kW |
| T _j = - 15 °C (if TOL < -20 °C) | | Pdh | | kW |
| Bivalent temperature | | T _{biv} | -7 | °C |
| Cycling interval capacity for heating | | Pcych | | kW |
| Degradation coefficient | | Cdh | 0.98 | |
| Power consumption in modes other than | active mode | | | |
| Off mode | | POFF | 0.050 | kW |
| Thermostat-off mode | | P _{TO} | 0.000 | kW |
| Standby mode | | PSB | 0.025 | kW |
| Crankcase heater mode | | P _{CK} | 0.000 | kW |
| | | | | |
| Other items | | | | |
| Capacity control Sound power level, indoors/outdoors | | L wa | variable 39/56 | dB |
| | | | | 40 |
| Annual energy consumption | | Q _{HE} | 4295 | kWh |
| For heat pump combination heater | | | | |
| Declared load profile | | | L | |
| Daily electric consumption | | Q elec | 4.234 | kWh |
| Annual electricity consumption | | AEC | 904 | kWh |
| Standby cylinder heat loss | | | 1200 | Wh/day |

| Seasonal space heating energy efficiency | η _s | 176 | % |
|---|--|---|---------------------------|
| Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| $\begin{split} T_j &= -7 \ ^\circ C \\ T_j &= +2 \ ^\circ C \\ T_j &= +7 \ ^\circ C \\ T_j &= +7 \ ^\circ C \\ T_j &= +12 \ ^\circ C \\ T_j &= bivalent temperature \\ T_j &= operation limit temperature \\ T_j &= -15 \ ^\circ C \ (if TOL < -20 \ ^\circ C) \\ Operation limit temperature \\ Cycling interval efficiency \\ Heating water operating limit temperature \\ \end{split}$ | COPd COPd COPd COPd COPd COPd COPd COPcyc WTOL | 3.2 4.3 5.8 7.5 3.2 2.9 -10 60 | °C Q° |
| Supplementary heater Rated heat output | Psup | 9.0 | kW |
| Type of energy input | | Electric | |
| Rated air flow rate, outdoors | | 4500 | m ³ /h |
| Water heating energy efficiency | | 117 | % |
| Daily fuel consumption Annual fuel consumption Reference hot water temperature DHW volume accounted for in test | η _{wh} Q _{fuel} AFC | 52.5 290 | % kWh kWh ℃ I |

| Application | Medium temperatu | ire | | |
|---|------------------|------------------|----------|--------|
| Climate conditions | Average | | | |
| | | | | |
| Rated heat output | | Prated | 9 | kW |
| Declared capacity for heating for part load a | | | | |
| temperature 20 °C and outdoor temperature | Тј | | | |
| T _j = - 7 °C | | Pdh | 8.3 | kW |
| T _j = + 2 °C | | Pdh | 6.1 | kW |
| T _j = + 7 °C | | Pdh | 5.4 | kW |
| T _j = + 12 °C | | Pdh | 6.4 | kW |
| T _j = bivalent temperature | | Pdh | 8.3 | kW |
| T _j = operation limit temperature | | Pdh | 8.0 | kW |
| T _j = - 15 °C (if TOL < -20 °C) | | Pdh | | kW |
| Bivalent temperature | | T _{biv} | -7 | °C |
| Cycling interval capacity for heating | | Pcych | | kW |
| Degradation coefficient | | Cdh | 0.98 | |
| Power consumption in modes other than act | ive mode | | | |
| Off mode | | P OFF | 0.050 | kW |
| Thermostat-off mode | | P _{TO} | 0.000 | kW |
| Standby mode | | P _{SB} | 0.025 | kW |
| Crankcase heater mode | | P _{CK} | 0.000 | kW |
| Other items | | | | |
| Capacity control | | | variable | |
| Sound power level, indoors/outdoors | | L _{WA} | 39/56 | dB |
| Annual energy consumption | | Q _{HE} | 5781 | kWh |
| For heat pump combination heater | | | | |
| Declared load profile | | | L | |
| Daily electric consumption | | Qelec | 4.234 | kWh |
| Annual electricity consumption | | | 904 | kWh |
| Standby cylinder heat loss | | 0 | 1200 | Wh/day |
| | | | | |
| | | | | |

| Seasonal space heating energy efficiency | ηs | 129 | % |
|---|-----------------|----------|------|
| Declared coefficient of performance for part load at indoor | | | |
| temperature 20 °C and outdoor temperature Tj | | | |
| T _j = - 7 °C | COPd | 2.3 | |
| T _j = + 2 °C | COPd | 3.1 | |
| T _j = + 7 °C | COPd | 4.2 | |
| T _j = + 12 °C | COPd | 5.7 | |
| , = bivalent temperature | COPd | 2.3 | |
| T _i = operation limit temperature | COPd | 2.0 | |
| rj = - 15 °C (if TOL < -20 °C) | COPd | | |
| Operation limit temperature | TOL | -10 | °C |
| Cycling interval efficiency | COPcyc | | |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output | Psup | 9.0 | kW |
| Type of energy input | | Electric | |
| Rated air flow rate, outdoors | | 4500 | m³/h |
| | | | |
| Water heating energy efficiency | η _{wh} | 117 | % |
| Daily fuel consumption | Q fuel | | kWh |
| Annual fuel consumption | AFC | | kWh |
| Reference hot water temperature | | 52.5 | °C |
| DHW volume accounted for in test | | 290 | 1 |

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