



ENERG 9 енергия · ενεργεια

10068642

alpha innotec SWC 172H3 + Luxtronik 2.1























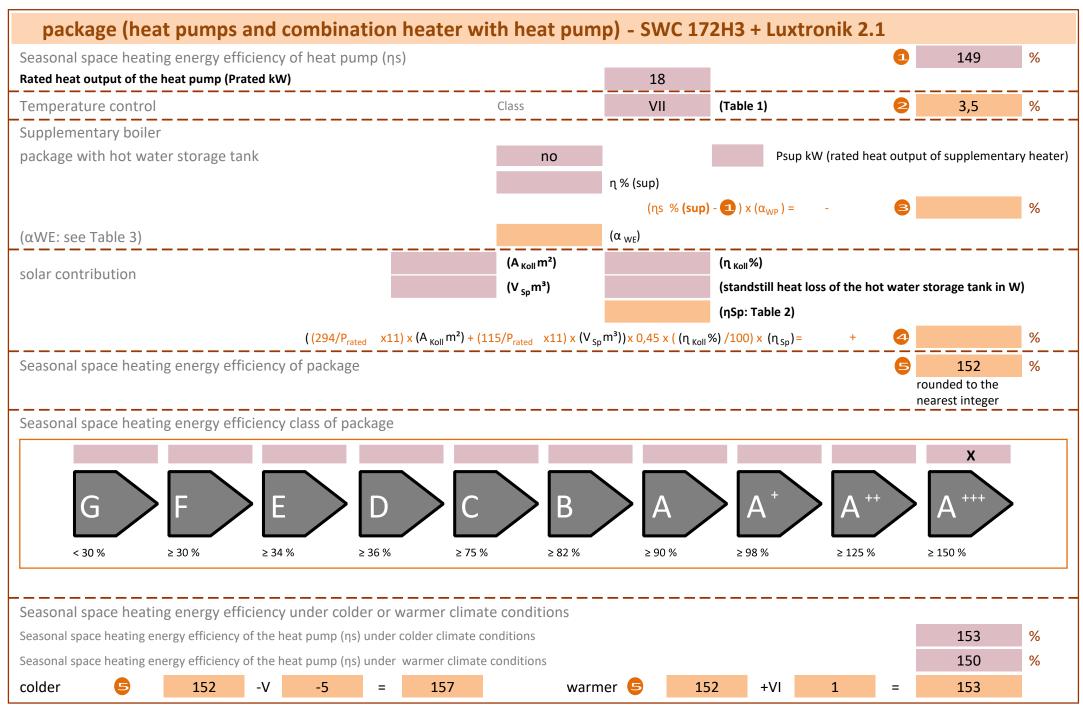












| manufacturer: | alpha innotec | | | |
|---|---|---------------------------------------|----------|--|
| model: | SWC 172H3 | SWC 172H3 | | |
| Information concerning energy efficiency class and rated heat c | output: | | | |
| | average / low | average / medium | | |
| energy efficiency class space heater: | A+++ | A++ | | |
| rated heat output: | 19 | 18 | kW | |
| energy efficiency space heater: | 206 | 149 | % | |
| annual final energy consumption space heater | 7397 | 9400 | kWh | |
| | • | | | |
| sound power level indoors | enance | 48 | dB | |
| sound power level indoors special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out be regulations. | | | dB | |
| special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out k | | | dB | |
| special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out b regulations. | by qualified specialist personnel in (| compliance with local | dB | |
| special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out be regulations. additional information | by qualified specialist personnel in a | compliance with local medium | | |
| special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out be regulations. additional information rated heat output under colder climate conditions | oy qualified specialist personnel in a low 19 | compliance with local medium 18 | kW | |
| special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out be regulations. additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions | low 19 20 | compliance with local medium 18 18 | kW | |
| special precautions concerning assembly, installation or maint All instructional work in this manual may only be carried out be regulations. additional information rated heat output under colder climate conditions rated heat output under warmer climate conditions energy effiency space heater under colder climate conditions | low 19 20 213 208 | medium 18 18 153 | kW kW | |

ErP-Produktdatenblatt1_RHG

| technical data of the temperature controller | | | | | | |
|--|---------------|---|--|--|--|--|
| manufacturer: | alpha innotec | | | | | |
| model: | Luxtronik 2.1 | | | | | |
| | | | | | | |
| controller class | VII | - | | | | |
| contribution of the controller to the energy efficiency space heater | 3,5 | % | | | | |

 ${\hbox{\it ErP-Produkt datenblatt2_RHG}}$

| Model | | | | SWC 172H3 | | | |
|---|------------------|----------------|---|---|-------------------|---------------|-----------|
| Model Air-to-water heat pump: (yes/no) | | | no | | | | |
| Brine-to-water heat pump: (yes/no) | | | yes | | | | |
| Water-to-water heat pump: (yes/no) | | | no | | | | |
| Low-temperature heat pump: (yes/no) | | | | no no | | | |
| Equipped with supplementary heater: (yes/no) | | | | yes | | | |
| combination heater with | | | no | | | | |
| application: (low/medium) | | | medium | | | | |
| climate: (colder/average/warmer) | | | average | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output | Prated | 18 | kW | Seasonal space heating energy efficiency | ηS | 148,9 | % |
| Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | | |
| Tj = -7°C | Pdh | 15,8 | kW | Tj = -7°C | COPd | 3,27 | - |
| Tj = +2°C | Pdh | 16,3 | kW | Tj = +2°C | COPd | 3,9 | - |
| Tj = +7°C | Pdh | 16,6 | kW | Tj = +7°C | COPd | 4,39 |] - |
| Tj = +12°C | Pdh | 16,9 | kW | Tj = +12°C | COPd | 4,99 | - |
| Tj = bivalent temperature | Pdh | 15,8 | kW | Tj = bivalent temperature | COPd | 3,27 | - |
| Tj = operation limit temperature | Pdh | 15,6 | kW | Tj = operation limit temperature | COPd | 3,07 | 1 - |
| For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C) | Pdh | - | kW | For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C) | COPd | - | - |
| Bivalent temperature | T biv | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | Pcych | | kW | Cycling interval efficiency | COPcyc | | _ |
| Degradation co-efficient (**) | Cdh | 1,0 | - | Heating water operating limit temperature | WTOL | 60 | °C |
| Power consumption in modes other than active mode | | | Supplementary heater | | | | |
| Off mode | P _{OFF} | 0,015 | kW | Rated heat output | Psup | 2,3 | kW |
| Thermostat-off mode | P $_{TO}$ | 0,015 | kW | | | | |
| Standby mode | P _{SB} | 0,015 | kW | Type of energy input | el | ectrical | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | | | m³/h |
| sound power level, indoors/outdoors | L wa | 48/- | dB | dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat | | 4 | m³/h |
| Emissions of nitrogen oxides | | - | mg/ kWh | exchanger | | | |
| For heat pump combination heater: | | | | • | | | • |
| Declared load profile | | - | | Water heating energy efficiency | η _{wh} | - | % |
| Daily electricity consumption | Q elec | | kWh | Daily fuel consumption | Q _{fuel} | 0 | kWh |
| Contact details ait deutschland (| | | d GmbH Industriestr. 3 95359 Kasendorf Germany | | | | |
| | | rated heat out | put Prated i | s equal to the design load for heating Pdesignh, and the rated | heat output of | a supplementa | ry |
| heater Psup is equal to the supplementary capacity for hea | - | | | at in Calls 0.0 | | | |
| (**) If Cdh is not determined by measurement the | iii uie aerault | uegradatior | і соепісіеі | it is cuit – 0,3. | | ErP-Ökodesi | an-madium |

| | | | | T | | | |
|---|------------------|----------|---|---|--------------------|----------|-------|
| Model Air-to-vater heat pump: (vec/po) | | | | SWC 172H3 | | | |
| Air-to-water heat pump: (yes/no) | | | no | | | | |
| Brine-to-water heat pump: (yes/no) | | | | yes | | | |
| Water-to-water heat pump: (yes/no) | | | no | | | | |
| Low-temperature heat pump: (yes/no) | | | no ves | | | | |
| Equipped with supplementary heater: (yes/no) combination heater with | | | yes | | | | |
| application: (low/medium) | | | | no low | | | |
| climate: (colder/average/warmer) | | | | average | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output | Prated | 19 | kW | Seasonal space heating energy efficiency | ηS | 206,2 | % |
| Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | | |
| Tj = -7°C | Pdh | 16,9 | kW | Tj = -7°C | COPd | 5,07 |] _ |
| Tj = +2°C | Pdh | 17,1 | kW | Tj = +2°C | COPd | 5,38 | 1 . |
| | - | | - | | | | 1 |
| Tj = +7°C | Pdh | 17,2 | kW | Tj = +7°C | COPd | 5,69 | - |
| Tj = +12°C | Pdh | 17,3 | kW | Tj = +12°C | COPd | 6,04 | _ |
| Tj = bivalent temperature | Pdh | 16,9 | kW | Tj = bivalent temperature | COPd | 5,07 | - |
| Tj = operation limit temperature | Pdh | 16,9 | kW | Tj = operation limit temperature | COPd | 4,93 | - |
| For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C) | Pdh | - | kW | For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C) | COPd | - | - |
| Bivalent temperature | T biv | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | Pcych | | kW | Cycling interval efficiency | COPcyc | | - |
| Degradation co-efficient (**) | Cdh | 1 | - | Heating water operating limit temperature | WTOL | 60 | °C |
| Power consumption in modes other tha | n active m | iode | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,015 | kW | Rated heat output | Psup | 2,3 | kW |
| Thermostat-off mode | P_{TO} | 0,015 | kW | | | | |
| Standby mode | P _{SB} | 0,015 | kW | Type of energy input | electrical | | |
| Crankcase heater mode | P _{CK} | 0,000 | kW | | | | |
| Other items | | | | | | | _ |
| Capacity control | | fixed | | For air-to-water heat pumps: Rated air flow rate, outdoors | | | m³/h |
| sound power level, indoors/outdoors | L wa | 48/- | dB | For water-/brine-to-water heat pumps: brine or water flow rate, outdoor heat | : Rated 4 m | | m³/h |
| Emissions of nitrogen oxides | NOx | - | mg/ kWh | exchanger | | | |
| For heat pump combination heater: | | <u>I</u> | KVVII | L | | <u>I</u> | |
| | | | | Water heating energy efficiency | | | |
| Declared load profile | | <u>-</u> | | 3.5 | η_{wh} | - | % |
| Daily electricity consumption | Qelec | | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Contact details ait deutschland (| | | d GmbH Industriestr. 3 95359 Kasendorf Germany | | | | |
| (*) For heat pump space heaters and heat pump combinal heater Psup is equal to the supplementary capacity for he (**) If Cdh is not determined by measurement the | ating s | | | d is equal to the design load for heating Pdesignh, and the rate ${\sf nt}$ is ${\sf Cdh}=0.9.$ | d heat output | | ntary |