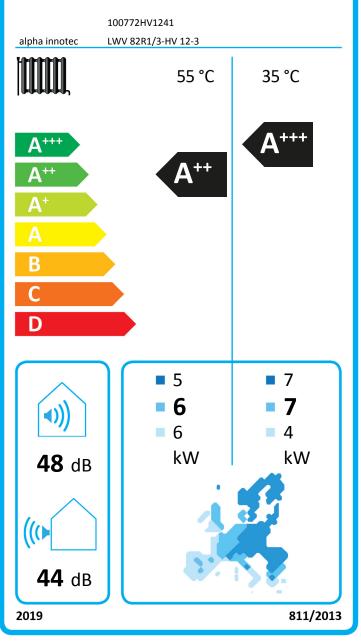
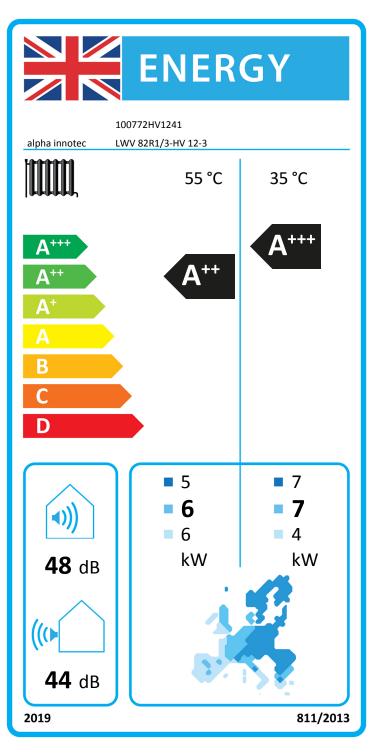


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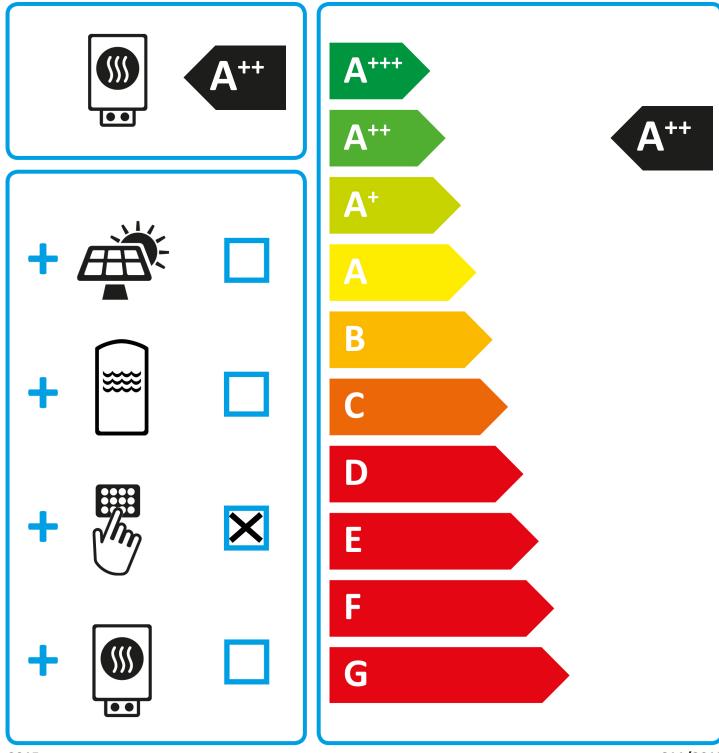


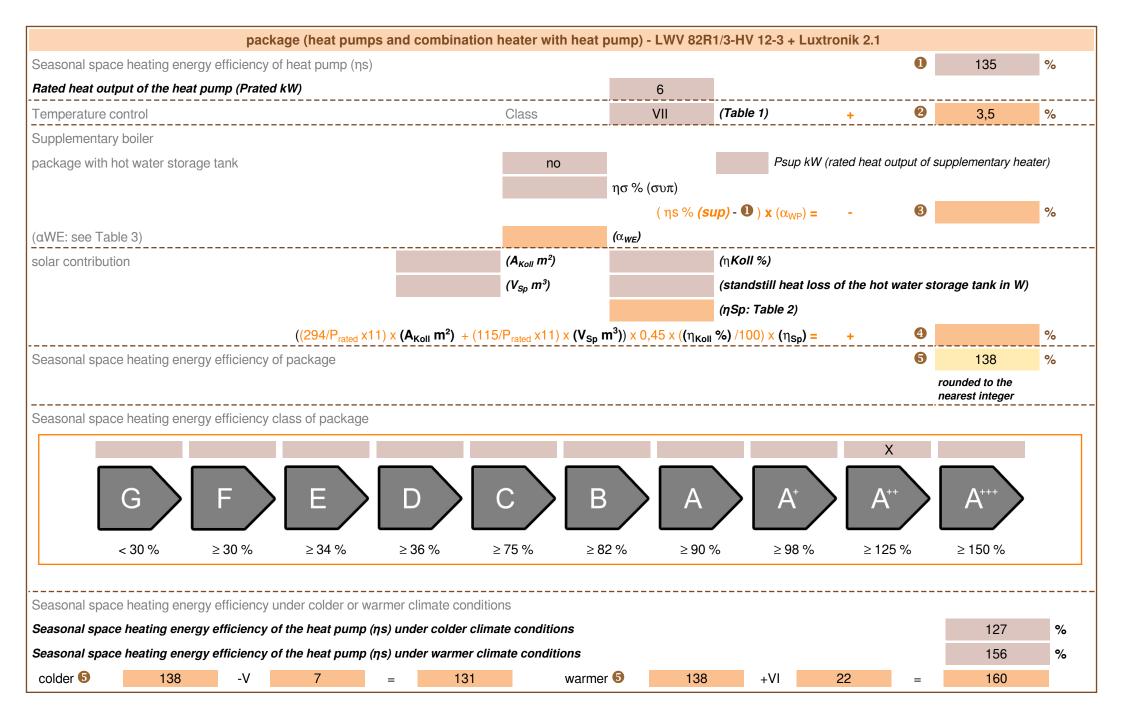


100772HV1241

alpha innotec

LWV 82R1/3-HV 12-3 + Luxtronik 2.1





| heatpump datasheet: | |
|---------------------|--------------------|
| | |
| manufacturer: | alpha innotec |
| model: | LWV 82R1/3-HV 12-3 |
| | - · |

Information concerning energy efficiency class and rated heat output:

| | average / low | average / medium | |
|--|---------------|------------------|-----|
| energy efficiency class space heater: | A+++ | A++ | - |
| rated heat output: | 7 | 6 | kW |
| energy efficiency space heater: | 180 | 135 | % |
| annual final energy consumption space heater | 3029 | 3390 | kWh |

48

dB

sound power level indoors

special precautions concerning assembly, installation or maintenance

All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.

| additional information | low | medium | |
|---|------|--------|-----|
| rated heat output colder climate | 7 | 5 | kW |
| rated heat output warmer climate | 4 | 6 | kW |
| energy effiency space heater colder climate | 145 | 127 | % |
| energy effiency space heater warmer climate | 214 | 156 | % |
| annual energy consumption space heater colder climate | 4339 | 3781 | kWh |
| annual energy consumption space heater warmer climate | 1009 | 1844 | kWh |
| | | | |
| sound power level outdoors | | 44 | dB |

| 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 | % | | | |

| Model | | | | LWV 82R1/3-HV 12-3 | | | |
|--|-------------------|---------------|------------------------|---|-------------|------------|-------------------|
| Air-to-water heat pump: (yes/no) | | | ves | | | | |
| Brine-to-water heat pump: (yes/no) | | | no | | | | |
| Water-to-water heat pump: (yes/no) | | | no | | | | |
| Low-temperature heat pump: (yes/no) | | | no | | | | |
| Equipped with supplementary heater: (yes/no) | | | yes | | | | |
| combination heater with: (yes/no) | | | no | | | | |
| application: (low/medium) | | | | medium | | | |
| climate: (colder/average/warmer) | | | average | | | | |
| Item Symbol Value Unit | | | Item Symbol Value Unit | | | | |
| Rated heat output | Prated | 6 | kW | Seasonal space heating energy efficiency | ηS | 134,7 | % |
| Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | | Declared coefficient of perfor temperature 20°C and outdoor | | | indoor |
| Tj = -7°C | Pdh | 5,0 | kW | Tj = -7°C | COPd | 2,31 | - |
| Tj = +2°C | Pdh | 3,5 | kW | Tj = +2°C | COPd | 3,43 | - |
| Tj = +7°C | Pdh | 3,0 | kW | Tj = +7°C | COPd | 4,86 | - |
| Tj = +12°C | Pdh | 3,4 | kW | Tj = +12°C | COPd | 6,56 | - |
| Tj = bivalent temperature | Pdh | 5,0 | kW | Tj = bivalent temperature | COPd | 2,31 | - |
| Tj = operation limit temperature | Pdh | 4,2 | kW | Tj = operation limit temperature | COPd | 2,12 | - |
| 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 that | n active mod | e | Supplementary heater | | | - |
| Off mode | P _{OFF} | 0,031 | kW | Rated heat output | Psup | 1,4 | kW |
| Thermostat-off mode | P _{TO} | - | kW | Type of energy input | | electrical | |
| Standby mode | P _{SB} | 0,031 | kW | | | | |
| Crankcase heater mode | Р _{ск} | - | kW | 7 | | | |
| Other items | | | | | • | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 2.500 | m³/h |
| sound power level, indoors/outdoors | L _{WA} | 48 / 44 | dB | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m ³ /h |
| Emissions of nitrogen oxides | NO _X | - | mg/kWh | | - | | - |
| For heat pump combination h | eater: | | - | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{elec} | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Contact details | | land GmbH Ir | Idustriestr. 3 | 95359 Kasendorf Germany | | | |
| | and heat pu | Imp combinati | ion heaters, | the rated heat output Prated is equ equal to the supplementary capac | | | eating |
| (**) If Cdh is not determined by m | | - | | | | | |
| | | | | | | | |

| Model | | | | LWV 82R1/3-HV 12-3 | | | |
|---|-------------------|---------------|--------------|---|-------------|------------------|-------------------|
| Air-to-water heat pump: (yes/no) | | | | yes | | | |
| Brine-to-water heat pump: (yes/no) | | | no | | | | |
| Water-to-water heat pump: (yes/no) | | | no | | | | |
| Low-temperature heat pump: (ye | s/no) | | | no | | | |
| Equipped with supplementary heater: (yes/no) | | | | yes | | | |
| combination heater with: (yes/no) | | | | no | | | |
| application: (low/medium) | | | | low | | | |
| climate: (colder/average/warmer) | | | | average | | | |
| Item | Symbol | Value | Unit | Item Symbol Value Unit | | | |
| Rated heat output | Prated | 7 | kW | Seasonal space heating energy efficiency | ηS | 179,8 | % |
| Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj | | | | Declared coefficient of perfor temperature 20°C and outdoo | | | ndoor |
| Tj = -7°C | Pdh | 5,9 | kW | Tj = -7°C | COPd | 3,26 | - |
| Tj = +2°C | Pdh | 3,8 | kW | Tj = +2°C | COPd | 4,70 | - |
| Tj = +7°C | Pdh | 3,3 | kW | Tj = +7°C | COPd | 5,97 | - |
| Tj = +12°C | Pdh | 3,4 | kW | Tj = +12°C | COPd | 7,92 | - |
| Tj = bivalent temperature | Pdh | 5,9 | kW | Tj = bivalent temperature | COPd | 3,26 | - |
| Tj = operation limit temperature | Pdh | 5,1 | kW | Tj = operation limit temperature | COPd | 3,18 | - |
| 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 that | n active mod | e | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,031 | kW | Rated heat output | Psup | 1,6 | kW |
| Thermostat-off mode | P _{TO} | - | kW | Type of energy input | | electrical | 1 |
| Standby mode | P _{SB} | 0,031 | kW | | | | |
| Crankcase heater mode | Рск | - | kW | - | | | |
| Other items | | | | 1 | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 2.500 | m ³ /h |
| sound power level, indoors/outdoors | L _{WA} | 48 / 44 | dB | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m ³ /h |
| Emissions of nitrogen oxides | NO _X | - | mg/kWh | • | - | | - |
| For heat pump combination h | | | | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{elec} | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Contact details | | land GmbH Ir | | 95359 Kasendorf Germany | | | |
| (*) For heat pump space heaters | and heat pu | Imp combinati | ion heaters, | the rated heat output Prated is equ equal to the supplementary capac | | | eating |
| (**) If Cdh is not determined by m | | | - | | | - · · <i>J</i> / | |