

10053602

alpha innotec

LW 251



55 °C

35 °C



A⁺



23

25

kW



63 dB



55 dB

23 25 **2**4 **2**4 kW



2019

811/2013



10053602

alpha innotec

LW 251



55 °C

35 °C



Λ ++

 \mathbf{A}^{+}

Α

В

L

 A^+



63 dB

((()

55 dB

23
25
24
kW
kW

2019 811/2013



IJA ENERG енергия · ενεργεια

10053602

alpha innotec

LW 251 + Luxtronik 2.0

















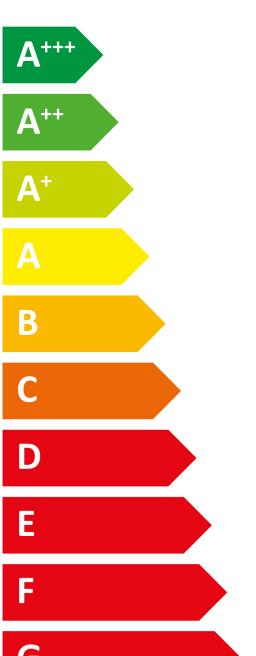


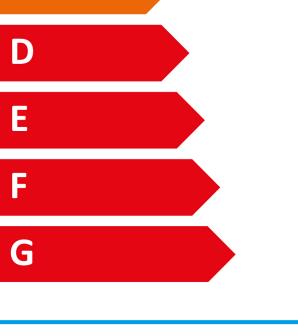


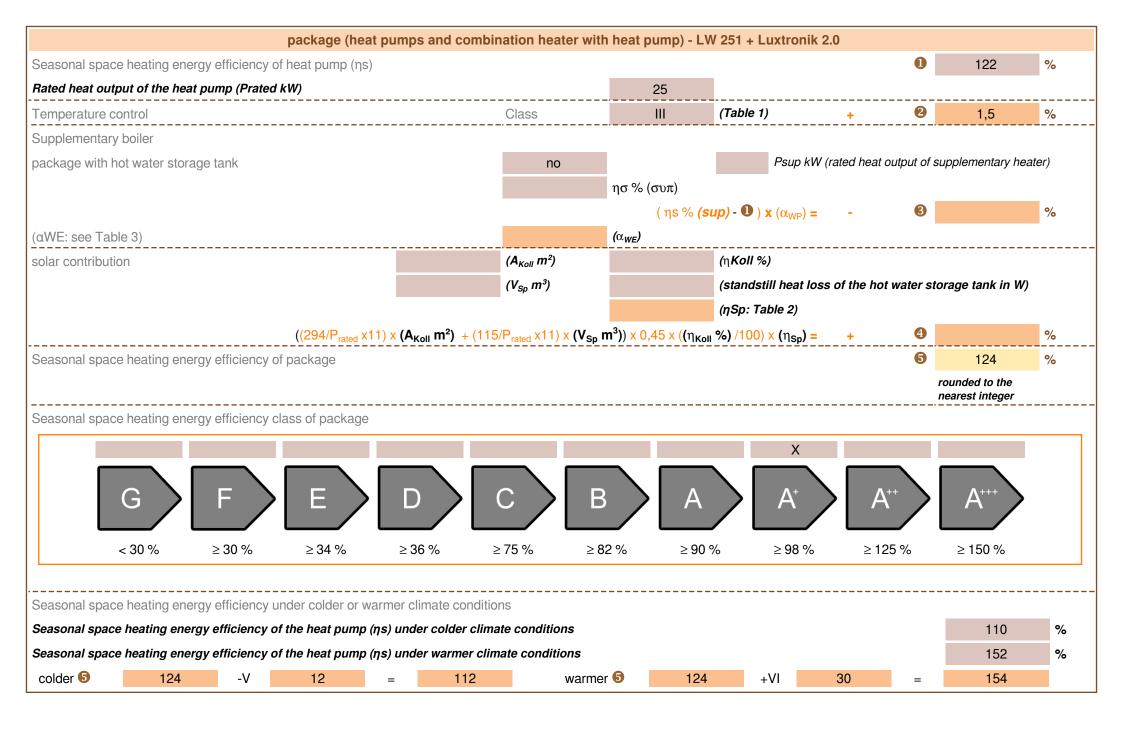












| heatpump datasheet: | | | | |
|---|----------------------------|------------------|-----|--|
| manufacturer: | anufacturer: alpha innotec | | | |
| model: | LW 251 | | | |
| | ļ. | | | |
| Information concerning energy efficiency class and | rated heat output: | | | |
| | - | | | |
| | average / low | average / medium | | |
| energy efficiency class space heater: | A++ | A+ | - | |
| rated heat output: | 25 | 25 | kW | |
| energy efficiency space heater: | 155 | 122 | % | |
| annual final energy consumption space heater | 13252 | 16517 | kWh | |
| | • | • | | |
| sound power level indoors | | 63 | dB | |
| | | | | |
| regulations. | | | | |
| | | | | |
| additional information | low | medium | | |
| rated heat output colder climate | 23 | 23 | kW | |
| rated heat output warmer climate | 24 | 24 | kW | |
| energy effiency space heater colder climate | 134 | 110 | % | |
| energy effiency space heater warmer climate | 198 | 152 | % | |
| annual energy consumption space heater colder climate | 16286 | 19754 | kWh | |
| annual energy consumption space heater warmer climate | 6424 | 8123 | kWh | |
| | · | <u> </u> | • | |
| sound power level outdoors | | 55 | dB | |
| | | | | |

| technical data of the temperature controller | | | | | | | |
|---|---------------|---|--|--|--|--|--|
| | | | | | | | |
| manufacturer: | alpha innotec | | | | | | |
| model: | Luxtronik 2.0 | | | | | | |
| | | | | | | | |
| controller class | III | - | | | | | |
| contribution of the controller to the energy efficiency space hea | ater 1,5 | % | | | | | |

| BA a dad | | | | LW 054 | | | |
|---|-------------------|--------------|----------------|---|-------------|------------|-------------------|
| Model | | | LW 251 | | | | |
| 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: (yes/no) | | | no | | | | |
| Equipped with supplementary heater: (yes/no) | | | yes | | | | |
| combination heater with: (yes/no) | | | | no | | | |
| application: (low/medium) | | | | medium | | | |
| climate: (colder/average/warmer) | | i | | average | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output | Prated | 25 | kW | Seasonal space heating energy efficiency | ηS | 122,1 | % |
| 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 | 19,2 | kW | Tj = -7°C | COPd | 2,07 | - |
| Tj = +2°C | Pdh | 23,9 | kW | Tj = +2°C | COPd | 3,02 | - |
| Tj = +7°C | Pdh | 14,3 | kW | Tj = +7°C | COPd | 4,13 | - |
| Tj = +12°C | Pdh | 16,8 | kW | Tj = +12°C | COPd | 5,44 | - |
| Tj = bivalent temperature | Pdh | 20,2 | kW | Tj = bivalent temperature | COPd | 2,24 | - |
| Tj = operation limit temperature | Pdh | 17,7 | kW | Tj = operation limit temperature | COPd | 1,83 | - |
| 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} | -5 | °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 | 70 | °C |
| Power consumption in modes | other tha | n active mod | e | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,010 | kW | Rated heat output | Psup | 7,3 | kW |
| Thermostat-off mode | P _{TO} | 0,010 | kW | Type of energy input | | electrical | 1 |
| Standby mode | P _{SB} | 0,010 | kW | | | | |
| Crankcase heater mode | P _{CK} | - | kW | 1 | | | |
| Other items | | | ı | <u> </u> | | | |
| Capacity control | fixed | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 5.000 | m³/h |
| sound power level, indoors/outdoors | L _{WA} | 63 / 55 | 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 | ndustriestr. 3 | 95359 Kasendorf Germany | | | • |
| | and heat pu | ımp combinat | ion heaters, | the rated heat output Prated is equestern equal to the supplementary capac | | | eating |
| (**) If Cdh is not determined by m | | - | | | , | 5 r ())* | |
| , | | | segrada | | | | |

| | | | | L.W.o. | | | | |
|---|-------------------|-----------------|----------------|---|-------------|------------|-------------------|--|
| | | | LW 251 | | | | | |
| Air-to-water heat pump: (yes/no) | | | | 1 | yes | | | |
| 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) | | | | low | | | | |
| climate: (colder/average/warmer) | | | | average | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heat output | Prated | 25 | kW | Seasonal space heating energy efficiency | ηS | 154,8 | % | |
| 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 | 19,4 | kW | Tj = -7°C | COPd | 2,96 | - | |
| Tj = +2°C | Pdh | 24,2 | kW | Tj = +2°C | COPd | 3,77 | - | |
| Tj = +7°C | Pdh | 14,3 | kW | Tj = +7°C | COPd | 5,06 | - | |
| Tj = +12°C | Pdh | 16,9 | kW | Tj = +12°C | COPd | 5,90 | - | |
| Tj = bivalent temperature | Pdh | 20,4 | kW | Tj = bivalent temperature | COPd | 3,18 | - | |
| Tj = operation limit temperature | Pdh | 17,8 | kW | Tj = operation limit temperature | COPd | 2,66 | - | |
| 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} | -5 | °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 | 70 | °C | |
| Power consumption in modes | other that | n active mod | e | Supplementary heater | | | | |
| Off mode | P _{OFF} | 0,010 | kW | Rated heat output | Psup | 7,6 | kW | |
| Thermostat-off mode | P _{TO} | 0,010 | kW | Type of energy input | | electrical | | |
| Standby mode | P _{SB} | 0,010 | kW | | | | | |
| Crankcase heater mode | Рск | - | kW | | | | | |
| Other items | | | | | 1 | | | |
| Capacity control | fixed | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 5.000 | m³/h | |
| sound power level, indoors/outdoors | L _{WA} | 63 / 55 | 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 | ndustriestr. 3 | 95359 Kasendorf Germany | | | | |
| | and heat pu | ımp combinat | ion heaters, | the rated heat output Prated is equestern to the supplementary capac | | | eating | |
| (**) If Cdh is not determined by m | | - | | | ., | 2 | | |
| , in Sur 15 Hot determined by II | .ouour offici | . alon the dele | ani acgiaca | aon socialistic to our – 0,5. | | | | |