

10070941

alpha innotec

SW 42K3



55 °C

35 °C



**Λ** ++

 $\mathbf{A}^{+}$ 

Α

В

A++

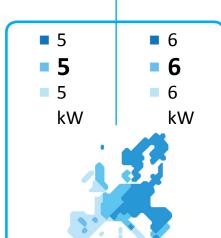




**43** dB



- dB



2019

811/2013



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alpha innotec

SW 42K3



55 °C

35 °C



**Λ**++

Δ+

Δ

В

C

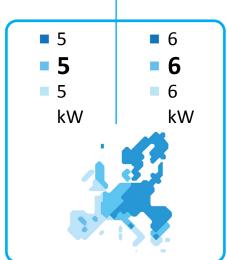
A++

A+++





**-** dB



2019

811/2013



## IJA ENERG енергия · ενεργεια

10070941

alpha innotec

SW 42K3 + Luxtronik 2.1























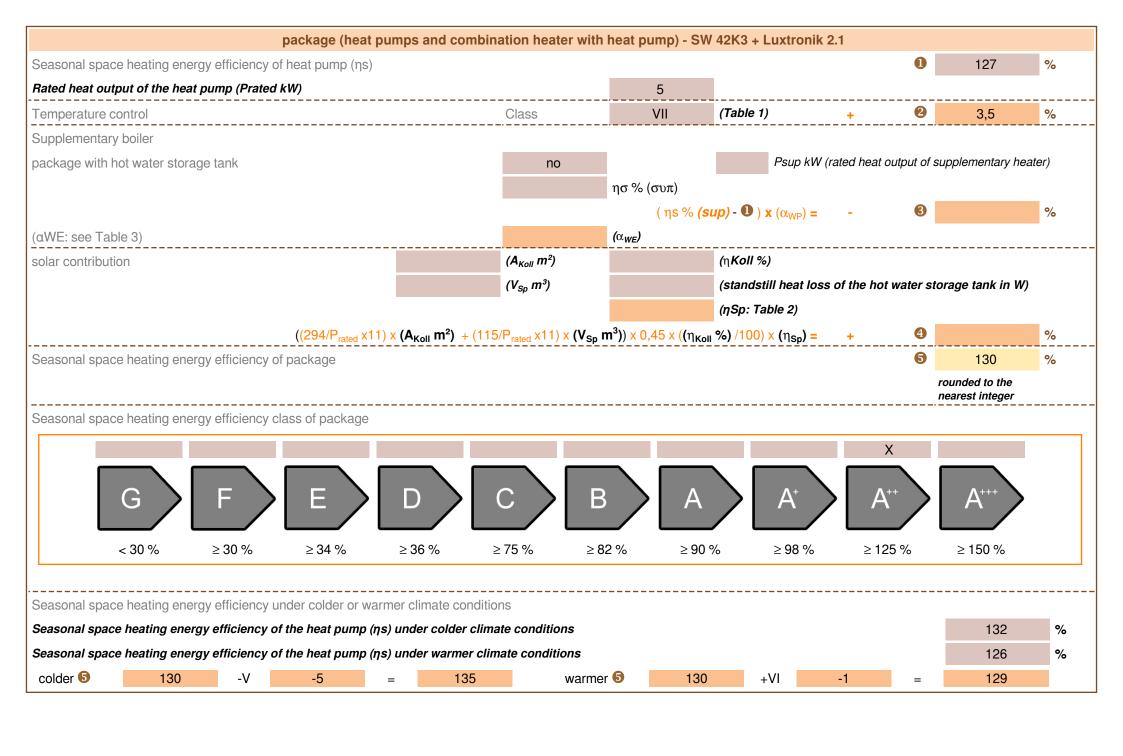








2015



| monufacturor  | alaba innatas                |                              |                     |  |
|---|------------------------------|------------------------------|---------------------|--|
| manufacturer:   | alpha innotec<br>SW 42K3     |                              |                     |  |
| model:  |                              |                              |                     |  |
|   | - d b t t t                  |                              |                     |  |
| Information concerning energy efficiency class and rate   | ed neat output:              |                              |                     |  |
|   | average / low                | average / medium             |                     |  |
| energy efficiency class space heater:   | A+++                         | A++                          | _                   |  |
| rated heat output:  | 6                            | 5                            | kW                  |  |
| energy efficiency space heater:   | 191                          | 127                          | %                   |  |
| annual final energy consumption space heater  | 2304                         | 2954                         | kWh                 |  |
|   |                              |                              |                     |  |
| sound power level indoors   |                              | 43                           | dB                  |  |
| ·   |                              |                              |                     |  |
|   |                              |                              |                     |  |
|   |                              |                              |                     |  |
|   |                              |                              |                     |  |
| additional information  | low                          | medium                       |                     |  |
| additional information rated heat output colder climate   | low<br>6                     | medium<br>5                  | kW                  |  |
|   |                              |                              | kW                  |  |
| rated heat output colder climate  | 6                            | 5                            |                     |  |
| rated heat output colder climate<br>rated heat output warmer climate  | 6                            | 5<br>5                       | kW                  |  |
| rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate   | 6<br>6<br>198                | 5<br>5<br>132                | kW<br>%             |  |
| rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate   | 6<br>6<br>198<br>190         | 5<br>5<br>132<br>126         | kW<br>%<br>%        |  |
| rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate | 6<br>6<br>198<br>190<br>2634 | 5<br>5<br>132<br>126<br>3382 | kW<br>%<br>%<br>kWh |  |

| 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   |                   |                 |                | SW 42K3  |             |                                       |                   |
|---|-------------------|-----------------|----------------|--|-------------|---------------------------------------|-------------------|
| 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             |  |             |                                       |                   |
| 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            | 5               | kW             | Seasonal space heating energy efficiency   | ηS          | 126,8                                 | %                 |
| 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               | 4,3             | kW             | Tj = -7°C  | COPd        | 2,79                                  | -                 |
| Tj = +2°C   | Pdh               | 4,5             | kW             | Tj = +2°C  | COPd        | 3,45                                  | -                 |
| Tj = +7°C   | Pdh               | 4,7             | kW             | Tj = +7°C  | COPd        | 3,93                                  | -                 |
| Tj = +12°C  | Pdh               | 4,9             | kW             | Tj = +12°C   | COPd        | 4,35                                  | -                 |
| Tj = bivalent temperature   | Pdh               | 4,3             | kW             | Tj = bivalent temperature  | COPd        | 2,79                                  | -                 |
| Tj = operation limit temperature  | Pdh               | 4,2             | kW             | Tj = operation limit temperature   | COPd        | 2,58                                  | -                 |
| 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 <sub>biv</sub>  | -7              | °C             | For air-to-water heat pumps:<br>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 <sub>OFF</sub>  | 0,015           | kW             | Rated heat output  | Psup        | 0,7                                   | kW                |
| Thermostat-off mode   | P <sub>TO</sub>   | 0,015           | kW             | Type of energy input   |             | electrical                            |                   |
| Standby mode  | P <sub>SB</sub>   | 0,015           | kW             |  |             |                                       |                   |
| Crankcase heater mode   | P <sub>CK</sub>   | -               | kW             |  |             |                                       |                   |
| Other items   |                   |                 |                |  |             |                                       |                   |
| Capacity control  | fixed             |                 |                | For air-to-water heat pumps:<br>Rated air flow rate, outdoors  | -           | -                                     | m <sup>3</sup> /h |
| sound power level, indoors/outdoors   | L <sub>WA</sub>   | 43 / -          | dB             | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger             | -           | 1                                     | m <sup>3</sup> /h |
| Emissions of nitrogen oxides  | NO <sub>X</sub>   | -               | mg/kWh         |  |             |                                       |                   |
| For heat pump combination h   | eater:            |                 |                |  |             |                                       |                   |
| Declared load profile   |                   | -               |                | Water heating energy efficiency  | $\eta_{wh}$ | -                                     | %                 |
| Daily electricity consumption   | Q <sub>elec</sub> | -               | kWh            | Daily fuel consumption   | Qfuel       | -                                     | kWh               |
| Contact details   |                   | land GmbH Ir    | ndustriestr. 3 | 95359 Kasendorf Germany  | -           | -                                     | -                 |
|   |                   |                 |                | the rated heat output Prated is equ<br>equal to the supplementary capac                                  |             |                                       | eating            |
| (**) If Cdh is not determined by m  | neasuremen        | t then the defa | ault degrada   | tion coefficient is Cdh = 0,9.   |             | · · · · · · · · · · · · · · · · · · · |                   |
|   |                   |                 |                |  |             |                                       |                   |

| Model   |                   |                 |                | SW 42K3  |             |            |                   |
|---|-------------------|-----------------|----------------|--|-------------|------------|-------------------|
| 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             |  |             |            |                   |
| 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            | 6               | kW             | Seasonal space heating energy efficiency   | ηS          | 190,7      | %                 |
| Declared coefficient of perfor temperature 20°C and outdoor |                   |                 | indoor         | Declared coefficient of perfor temperature 20°C and outdoor                                  |             |            | indoor            |
| Tj = -7°C   | Pdh               | 4,9             | kW             | Tj = -7°C  | COPd        | 4,87       | -                 |
| Tj = +2°C   | Pdh               | 5,0             | kW             | Tj = +2°C  | COPd        | 5,17       | -                 |
| Tj = +7°C   | Pdh               | 5,0             | kW             | Tj = +7°C  | COPd        | 5,46       | -                 |
| Tj = +12°C  | Pdh               | 5,1             | kW             | Tj = +12°C   | COPd        | 5,54       | -                 |
| Tj = bivalent temperature                                   | Pdh               | 4,9             | kW             | Tj = bivalent temperature  | COPd        | 4,87       | -                 |
| Tj = operation limit temperature                            | Pdh               | 4,9             | kW             | Tj = operation limit temperature   | COPd        | 4,70       | -                 |
| For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)    | Pdh               | -               | kW             | For air-to-water heat pumps: Tj<br>= -15°C (if TOL < -20°C)                                  | COPd        | -          | -                 |
| Bivalent temperature  | T <sub>biv</sub>  | -7              | °C             | For air-to-water heat pumps:<br>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        | n active mod    | е              | Supplementary heater   | •           |            |                   |
| Off mode  | P <sub>OFF</sub>  | 0,015           | kW             | Rated heat output  | Psup        | 0,7        | kW                |
| Thermostat-off mode   | P <sub>TO</sub>   | 0,015           | kW             | Type of energy input   |             | electrical |                   |
| Standby mode  | $P_{SB}$          | 0,015           | kW             |  |             |            |                   |
| Crankcase heater mode                                       | P <sub>CK</sub>   | -               | kW             |  |             |            |                   |
| Other items   |                   |                 |                |  |             |            | _                 |
| Capacity control  | fixed             |                 |                | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                | -           | 1          | m <sup>3</sup> /h |
| sound power level, indoors/outdoors                         | L <sub>WA</sub>   | 43 / -          | dB             | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | -           | 1          | m <sup>3</sup> /h |
| Emissions of nitrogen oxides                                | NO <sub>X</sub>   | -               | mg/kWh         |  |             |            |                   |
| For heat pump combination h                                 | eater:            |                 | <del>-</del>   |  |             |            |                   |
| Declared load profile                                       |                   |                 |                | Water heating energy efficiency  | $\eta_{wh}$ |            | %                 |
| Daily electricity consumption                               | Q <sub>elec</sub> | -               | kWh            | Daily fuel consumption   | Qfuel       | -          | kWh               |
| Contact details   | ait deutsch       | land GmbH Ir    | ndustriestr. 3 | 95359 Kasendorf Germany  |             |            |                   |
|   |                   |                 |                | the rated heat output Prated is equ<br>equal to the supplementary capac                      |             |            | eating            |
| (**) If Cdh is not determined by m                          | neasuremen        | t then the defa | ault degrada   | tion coefficient is Cdh = 0,9.   |             |            |                   |
|   |                   |                 |                |  |             |            |                   |