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#### This information was generated by the HP KEYMARK database on 22 Jun 2022

#### **Login**

| Summary of          | LWZ 5/8                     | Reg. No.  | 011-1W0037 |  |
|---------------------|-----------------------------|---|------------|--|
| Certificate Holder  |                             |   |            |  |
| Name                | STIEBEL ELTRON GmbH & Co    | STIEBEL ELTRON GmbH & Co KG                           |            |  |
| Address             | Dr. Stiebel Straße 33       | Zip   | 37603      |  |
| City                | Holzminden                  | Country   | Germany    |  |
| Certification Body  | DIN CERTCO Gesellschaft für | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |            |  |
| Subtype title       | LWZ 5/8                     | LWZ 5/8   |            |  |
| Heat Pump Type      | Outdoor Air/Water           | Outdoor Air/Water                                     |            |  |
| Refrigerant         | R410A                       | R410A   |            |  |
| Mass of Refrigerant | 2.95 kg                     | 2.95 kg   |            |  |
| Certification Date  | 31.10.2020                  | 31.10.2020  |            |  |

# **Model: LWZ 8 CS Premium**

| Configure model                         |                                 |  |  |
|---|---------------------------------|--|--|
| Model name                              | LWZ 8 CS Premium                |  |  |
| Application                             | Heating (medium temp)           |  |  |
| Units                                   | Indoor                          |  |  |
| Climate Zone                            | Colder Climate + Warmer Climate |  |  |
| Reversibility                           | No                              |  |  |
| Cooling mode application (optional) n/a |                                 |  |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

COP

4.74

| EN 14511-2  |                 |                    |  |
|-------------|-----------------|--------------------|--|
|             | Low temperature | Medium temperature |  |
| Heat output | 4.40 kW         | 3.84 kW            |  |
| El input    | 0.93 kW         | 1.44 kW            |  |

2.66

| EN 14511-4                                 |        |  |
|--|--------|--|
|  |        |  |
| Shutting off the heat transfer medium flow | passed |  |
| Complete power supply failure              | passed |  |
|  |        |  |
| Defrost test                               | passed |  |
| Starting and operating test                | passed |  |

### Warmer Climate



| EN 12102-1                |                 |                    |  |
|---------------------------|-----------------|--------------------|--|
|                           | Low temperature | Medium temperature |  |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |  |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |  |

| EN 14825      |                 |                    |  |
|---------------|-----------------|--------------------|--|
|               | Low temperature | Medium temperature |  |
| $\eta_{s}$    | 207 %           | 150 %              |  |
| Prated        | 9.00 kW         | 8.00 kW            |  |
| SCOP          | 5.24            | 3.82               |  |
| Tbiv          | 2 °C            | 2 °C               |  |
| TOL           | 2 °C            | 2 °C               |  |
| Pdh Tj = -7°C | 0.00 kW         | 0.00 kW            |  |
| COP Tj = -7°C | 0.00            | 0.00               |  |
| Pdh Tj = +2°C | 8.81 kW         | 8.32 kW            |  |
| COP Tj = +2°C | 3.18            | 2.34               |  |
| Pdh Tj = +7°C | 5.77 kW         | 5.41 kW            |  |
| COP Tj = +7°C | 4.57            | 3.26               |  |
| Pdh Tj = 12°C | 3.34 kW         | 3.17 kW            |  |
| COP Tj = 12°C | 6.89            | 5.11               |  |
| Pdh Tj = Tbiv | 8.81 kW         | 8.32 kW            |  |





| COP Tj = Tbiv                                       | 3.18        | 2.34        |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.81 kW     | 8.32 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.18        | 2.34        |
| Rated airflow rate                                  | 0 m³/h      | 0 m³/h      |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2243 kWh    | 2911 kWh    |

### Colder Climate

| EN 12102-1                |                 |                    |  |  |
|---------------------------|-----------------|--------------------|--|--|
|                           | Low temperature | Medium temperature |  |  |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |  |  |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |  |  |

| EN 14825 |                 |                    |
|----------|-----------------|--------------------|
|          | Low temperature | Medium temperature |





|   |          | •        |
|---|----------|----------|
| $\eta_{s}$  | 131 %    | 102 %    |
| Prated  | 14.00 kW | 11.00 kW |
| SCOP  | 3.34     | 2.62     |
| Tbiv  | -7 °C    | -7 °C    |
| TOL   | -20 °C   | -13 °C   |
| Pdh Tj = -7°C   | 8.62 kW  | 6.38 kW  |
| $COP Tj = -7^{\circ}C$                                | 2.96     | 2.50     |
| Pdh Tj = $+2$ °C                                      | 5.28 kW  | 3.92 kW  |
| $COP Tj = +2^{\circ}C$                                | 4.20     | 3.48     |
| Pdh Tj = $+7^{\circ}$ C                               | 3.42 kW  | 2.79 kW  |
| COP Tj = +7°C   | 5.87     | 4.68     |
| Pdh Tj = 12°C   | 3.35 kW  | 3.24 kW  |
| COP Tj = 12°C   | 7.12     | 5.67     |
| Pdh Tj = Tbiv   | 8.62 kW  | 6.38 kW  |
| COP Tj = Tbiv   | 2.56     | 2.50     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 5.73 kW  | 2.58 kW  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh   | 2.56     | 6.38     |
| Rated airflow rate                                    | 0 m³/h   | 0 m³/h   |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh   | 0.98     | 0.98     |
| WTOL  | 60 °C    | 60 °C    |





| Poff                                       | 27 W        | 27 W        |
|--|-------------|-------------|
| РТО  | 63 W        | 63 W        |
| PSB  | 27 W        | 27 W        |
| PCK  | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 14.24 kW    | 10.57 kW    |
| Annual energy consumption Qhe              | 10498 kWh   | 9932 kWh    |

### Average Climate

| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |

| EN 14825   |                 |                    |
|------------|-----------------|--------------------|
|            | Low temperature | Medium temperature |
| $\eta_{s}$ | 163 %           | 128 %              |
| Prated     | 10.00 kW        | 7.00 kW            |
| SCOP       | 4.14            | 3.27               |
| Tbiv       | -7 °C           | -7 °C              |
| TOL        | -10 °C          | -10 °C             |
|            |                 |                    |





| This information was genera                         | iced by the in Reimin | int database on EE jan EoE |
|---|-----------------------|----------------------------|
| Pdh Tj = -7°C                                       | 8.42 kW               | 5.87 kW                    |
| COP Tj = -7°C                                       | 2.76                  | 2.26                       |
| Pdh Tj = +2°C                                       | 5.12 kW               | 3.52 kW                    |
| COP Tj = +2°C                                       | 3.94                  | 3.27                       |
| Pdh Tj = $+7^{\circ}$ C                             | 3.26 kW               | 2.72 kW                    |
| COPTj = +7°C  | 5.53                  | 4.14                       |
| Pdh Tj = 12°C                                       | 3.35 kW               | 3.20 kW                    |
| COP Tj = 12°C                                       | 7.09                  | 5.29                       |
| Pdh Tj = Tbiv                                       | 8.42 kW               | 5.87 kW                    |
| COP Tj = Tbiv                                       | 2.76                  | 2.26                       |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.37 kW               | 2.67 kW                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.69                  | 1.88                       |
| Rated airflow rate                                  | 0 m³/h                | 0 m³/h                     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98                  | 0.98                       |
| WTOL  | 60 °C                 | 60 °C                      |
| Poff  | 27 W                  | 27 W                       |
| РТО   | 63 W                  | 63 W                       |
| PSB   | 27 W                  | 27 W                       |
| РСК   | 35 W                  | 35 W                       |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity                |
| Supplementary Heater: PSUP                          | 1.15 kW               | 3.97 kW                    |
|   |                       |                            |



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| Annual energy consumption Qhe | 4755 kWh | 4199 kWh |
|-------------------------------|----------|----------|
|-------------------------------|----------|----------|

# **Model: LWZ 8 S Trend**

| Configure model                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Model name                          | LWZ 8 S Trend                   |  |
| Application                         | Heating (medium temp)           |  |
| Units                               | Indoor                          |  |
| Climate Zone                        | Colder Climate + Warmer Climate |  |
| Reversibility                       | No                              |  |
| Cooling mode application (optional) | n/a                             |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

EN 14511-2

### Heating

Heat output

4.74

El input

COP

|  | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|  | 4.40 kW         | 3.84 kW            |
|  | 0.93 kW         | 1.44 kW            |

2.66

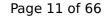
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Warmer Climate



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 5 dB(A)         | 50 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 184 %           | 133 %              |
| Prated                  | 9.00 kW         | 8.00 kW            |
| SCOP                    | 4.67            | 3.41               |
| Tbiv                    | 2 °C            | 0 °C               |
| TOL                     | 2 °C            | 0 °C               |
| Pdh Tj = -7°C           | 0.00 kW         | 0.00 kW            |
| COP Tj = -7°C           | 0.00            | 0.00               |
| Pdh Tj = +2°C           | 8.81 kW         | 8.32 kW            |
| COP Tj = +2°C           | 3.18            | 2.34               |
| Pdh Tj = $+7^{\circ}$ C | 5.77 kW         | 5.41 kW            |
| COP Tj = +7°C           | 4.57            | 3.26               |
| Pdh Tj = 12°C           | 3.34 kW         | 3.17 kW            |
| COP Tj = 12°C           | 6.89            | 5.11               |
| Pdh Tj = Tbiv           | 8.81 kW         | 8.32 kW            |



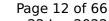


| COP Tj = Tbiv                                       | 3.18        | 2.34        |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.81 kW     | 8.32 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.18        | 2.34        |
| Rated airflow rate                                  | 0 m³/h      | 0 m³/h      |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 24 W        | 24 W        |
| РТО   | 69 W        | 69 W        |
| PSB   | 24 W        | 24 W        |
| PCK   | 55 W        | 55 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2517 kWh    | 3264 kWh    |

### Colder Climate

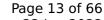
| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |

| EN 14825 |                                    |  |
|----------|------------------------------------|--|
|          | Low temperature Medium temperature |  |





|   |          | This will ductured on 22 juins |
|---|----------|--------------------------------|
| $\eta_{s}$  | 129 %    | 100 %                          |
| Prated  | 14.00 kW | 11.00 kW                       |
| SCOP  | 3.30     | 2.58                           |
| Tbiv  | -7 °C    | -7 °C                          |
| TOL   | -20 °C   | -13 °C                         |
| Pdh Tj = -7°C                                       | 8.62 kW  | 6.38 kW                        |
| COP Tj = -7°C                                       | 2.96     | 2.50                           |
| Pdh Tj = +2°C                                       | 5.28 kW  | 3.92 kW                        |
| COP Tj = +2°C                                       | 4.20     | 3.48                           |
| Pdh Tj = +7°C                                       | 3.42 kW  | 2.79 kW                        |
| $COPTj = +7^{\circ}C$                               | 5.87     | 4.68                           |
| Pdh Tj = 12°C                                       | 3.35 kW  | 3.24 kW                        |
| COP Tj = 12°C                                       | 7.12     | 5.67                           |
| Pdh Tj = Tbiv                                       | 8.62 kW  | 6.38 kW                        |
| COP Tj = Tbiv                                       | 2.56     | 2.50                           |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.73 kW  | 2.58 kW                        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.56     | 2.09                           |
| Rated airflow rate                                  | 0 m³/h   | 0 m³/h                         |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98     | 0.98                           |
| WTOL  | 60 °C    | 60 °C                          |



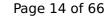


| Poff                                       | 27 W        | 27 W        |
|--|-------------|-------------|
| РТО  | 63 W        | 63 W        |
| PSB  | 27 W        | 27 W        |
| PCK  | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 14.24 kW    | 10.57 kW    |
| Annual energy consumption Qhe              | 10634 kWh   | 10109 kWh   |

# **Average Climate**

| EN 12102-1                |                 |                    |  |
|---------------------------|-----------------|--------------------|--|
|                           | Low temperature | Medium temperature |  |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |  |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |  |

| EN 14825        |   |  |
|-----------------|---|--|
| Low temperature | Medium temperature                            |  |
| 155 %           | 121 %   |  |
| 10.00 kW        | 7.00 kW                                       |  |
| 3.95            | 3.10  |  |
| -7 °C           | -7 °C   |  |
| -10 °C          | -10 °C  |  |
|                 | Low temperature  155 %  10.00 kW  3.95  -7 °C |  |





| This information was genera                         | iced by the in Reinm | in adiabase on 22 jun 2022 |
|---|----------------------|----------------------------|
| Pdh Tj = -7°C                                       | 8.42 kW              | 5.87 kW                    |
| COP Tj = -7°C                                       | 2.76                 | 2.26                       |
| Pdh Tj = +2°C                                       | 5.12 kW              | 3.52 kW                    |
| COP Tj = +2°C                                       | 3.94                 | 3.27                       |
| Pdh Tj = +7°C                                       | 3.26 kW              | 2.72 kW                    |
| $COP Tj = +7^{\circ}C$                              | 5.53                 | 4.14                       |
| Pdh Tj = 12°C                                       | 3.35 kW              | 3.20 kW                    |
| COP Tj = 12°C                                       | 7.09                 | 5.29                       |
| Pdh Tj = Tbiv                                       | 8.42 kW              | 5.87 kW                    |
| COP Tj = Tbiv                                       | 2.76                 | 2.26                       |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.37 kW              | 2.67 kW                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.69                 | 1.88                       |
| Rated airflow rate                                  | 0 m³/h               | 0 m³/h                     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98                 | 0.98                       |
| WTOL  | 60 °C                | 60 °C                      |
| Poff  | 27 W                 | 27 W                       |
| РТО   | 63 W                 | 63 W                       |
| PSB   | 27 W                 | 27 W                       |
| PCK   | 35 W                 | 35 W                       |
| Supplementary Heater: Type of energy input          | Electricity          | Electricity                |
| Supplementary Heater: PSUP                          | 1.15 kW              | 3.97 kW                    |
|   |                      |                            |



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| Annual energy consumption Qhe | 4982 kWh | 4427 kWh |
|-------------------------------|----------|----------|
|-------------------------------|----------|----------|



# **Model: LWZ 8 CS Premium DHW**

| Configure model                     |                      |  |
|-------------------------------------|----------------------|--|
| Model name                          | LWZ 8 CS Premium DHW |  |
| Application                         | Heating + DHW        |  |
| Units                               | Indoor               |  |
| Climate Zone                        | n/a                  |  |
| Reversibility                       | No                   |  |
| Cooling mode application (optional) | n/a                  |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

| EN 14511-2         |         |  |
|--------------------|---------|--|
| Medium temperature |         |  |
| Heat output        | 3.84 kW |  |
| El input           | 1.44 kW |  |
| СОР                | 2.66    |  |

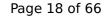
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

# Average Climate



| EN 12102-1                |                    |
|---------------------------|--------------------|
|                           | Medium temperature |
| Sound power level indoor  | 52 dB(A)           |
| Sound power level outdoor | 50 dB(A)           |

| EN 14825      |                    |
|---------------|--------------------|
|               | Medium temperature |
| $\eta_s$      | 128 %              |
| Prated        | 7.00 kW            |
| SCOP          | 3.27               |
| Tbiv          | -7 °C              |
| TOL           | -10 °C             |
| Pdh Tj = -7°C | 5.87 kW            |
| COP Tj = -7°C | 2.26               |
| Pdh Tj = +2°C | 3.52 kW            |
| COP Tj = +2°C | 3.27               |
| Pdh Tj = +7°C | 2.72 kW            |
| COP Tj = +7°C | 4.14               |
| Pdh Tj = 12°C | 3.20 kW            |
| COP Tj = 12°C | 5.29               |
| Pdh Tj = Tbiv | 5.87 kW            |
|               |                    |

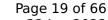




|   | <b>-</b>    |
|---|-------------|
| COP Tj = Tbiv                                       | 2.26        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.67 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.88        |
| Rated airflow rate                                  | 0 m³/h      |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        |
| WTOL  | 60 °C       |
| Poff  | 27 W        |
| РТО   | 63 W        |
| PSB   | 27 W        |
| PCK   | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 3.97 kW     |
| Annual energy consumption Qhe                       | 4199 kWh    |

Domestic Hot Water (DHW)

Average Climate





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | XL          |  |
| Efficiency ηDHW                 | 111 %       |  |
| СОР                             | 2.70        |  |
| Heating up time                 | 02:06 h:min |  |
| Standby power input             | 132.0 W     |  |
| Reference hot water temperature | 57.0 °C     |  |
| Mixed water at 40°C             | 352 l       |  |

# Model: LWZ 5 S Plus

| Configure model                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Model name LWZ 5 S Plus             |                                 |  |
| Application                         | Heating (medium temp)           |  |
| Units                               | Indoor                          |  |
| Climate Zone                        | Colder Climate + Warmer Climate |  |
| Reversibility                       | No                              |  |
| Cooling mode application (optional) | n/a                             |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 4.40 kW         | 3.84 kW            |
| El input    | 0.93 kW         | 1.44 kW            |
| СОР         | 4.74            | 2.66               |

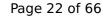
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Warmer Climate



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825  |         |         |  |  |
|---|---------|---------|--|--|
| Low temperature Medium temperature                  |         |         |  |  |
| $\eta_{s}$  | 178 %   | 134 %   |  |  |
| Prated  | 7.00 kW | 7.00 kW |  |  |
| SCOP  | 4.53    | 3.42    |  |  |
| Tbiv  | 2 °C    | 2 °C    |  |  |
| TOL   | 2 °C    | 2 °C    |  |  |
| Pdh Tj = $+2$ °C                                    | 6.70 kW | 6.89 kW |  |  |
| $COP Tj = +2^{\circ}C$                              | 3.38    | 2.50    |  |  |
| Pdh Tj = $+7^{\circ}$ C                             | 4.31 kW | 4.47 kW |  |  |
| $COP Tj = +7^{\circ}C$                              | 4.81    | 3.28    |  |  |
| Pdh Tj = 12°C                                       | 3.32 kW | 3.16 kW |  |  |
| COP Tj = 12°C                                       | 6.73    | 4.98    |  |  |
| Pdh Tj = Tbiv                                       | 6.70 kW | 6.68 kW |  |  |
| COP Tj = Tbiv                                       | 3.38    | 2.50    |  |  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.70 kW | 6.89 kW |  |  |



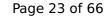


| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.38        | 2.50        |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 1977 kWh    | 2694 kWh    |

### Colder Climate

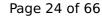
| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825        |                    |  |
|-----------------|--------------------|--|
| Low temperature | Medium temperature |  |
| 135 %           | 101 %              |  |
| 9.00 kW         | 9.00 kW            |  |
| -               | 135 %              |  |





| SCOP  | 3.45    | 2.60    |
|---|---------|---------|
| Tbiv  | -7 °C   | -7 °C   |
| TOL   | -20 °C  | -13 °C  |
| Pdh Tj = -7°C                                       | 5.57 kW | 5.31 kW |
| $COP Tj = -7^{\circ}C$                              | 3.14    | 2.52    |
| Pdh Tj = $+2^{\circ}$ C                             | 3.45 kW | 3.28 kW |
| COP Tj = +2°C                                       | 4.51    | 3.50    |
| Pdh Tj = $+7^{\circ}$ C                             | 2.89 kW | 2.78 kW |
| $COP Tj = +7^{\circ}C$                              | 5.78    | 4.56    |
| Pdh Tj = 12°C                                       | 3.34 kW | 3.23 kW |
| COP Tj = 12°C                                       | 6.96    | 5.59    |
| Pdh Tj = Tbiv                                       | 5.57 kW | 5.31 kW |
| COP Tj = Tbiv                                       | 3.14    | 2.52    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW | 2.58 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.55    | 2.09    |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98    | 0.98    |
| WTOL  | 60 °C   | 60 °C   |
| Poff  | 27 W    | 27 W    |
| PTO   | 63 W    | 63 W    |
| PSB   | 27 W    | 27 W    |
| РСК   | 35 W    | 35 W    |





| This information was genera | ited by the HP KEYMA | RK database on 22 Jun 2022 |
|-----------------------------|----------------------|----------------------------|
|                             |                      |                            |

| Supplementary Heater: Type of energy input | Electricity | Electricity |
|--|-------------|-------------|
| Supplementary Heater: PSUP                 | 9.52 kW     | 8.76 kW     |
| Annual energy consumption Qhe              | 6605 kWh    | 8311 kWh    |

### Average Climate

| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825               |         |                    |
|------------------------|---------|--------------------|
| Low temperature Me     |         | Medium temperature |
| $\eta_{S}$             | 154 %   | 121 %              |
| Prated                 | 6.00 kW | 6.00 kW            |
| SCOP                   | 3.92    | 3.11               |
| Tbiv                   | -7 °C   | -7 °C              |
| TOL                    | -10 °C  | -10 °C             |
| Pdh Tj = $-7$ °C       | 5.48 kW | 5.54 kW            |
| COP Tj = -7°C          | 2.93    | 2.26               |
| Pdh Tj = $+2$ °C       | 3.28 kW | 3.41 kW            |
| $COP Tj = +2^{\circ}C$ | 4.18    | 3.27               |
|                        |         |                    |



|   |             | -           |
|---|-------------|-------------|
| Pdh Tj = +7°C                                       | 2.86 kW     | 2.71 kW     |
| $COP Tj = +7^{\circ}C$                              | 5.43        | 4.09        |
| Pdh Tj = 12°C                                       | 3.34 kW     | 3.19 kW     |
| COP Tj = 12°C                                       | 6.96        | 5.29        |
| Pdh Tj = Tbiv                                       | 5.48 kW     | 5.54 kW     |
| COP Tj = Tbiv                                       | 2.93        | 2.26        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.48 kW     | 2.67 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.82        | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.75 kW     | 3.55 kW     |
| Annual energy consumption Qhe                       | 3280 kWh    | 4138 kWh    |

# Model: LWZ 5 S Smart

| Configure model                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Model name LWZ 5 S Smart            |                                 |  |
| Application                         | Heating (medium temp)           |  |
| Units                               | Indoor                          |  |
| Climate Zone                        | Colder Climate + Warmer Climate |  |
| Reversibility                       | No                              |  |
| Cooling mode application (optional) | n/a                             |  |

| General Data             |  |  |
|--------------------------|--|--|
| Power supply 1x230V 50Hz |  |  |

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 4.40 kW | 3.84 kW |  |
| El input                           | 0.93 kW | 1.44 kW |  |
| СОР                                | 4.74    | 2.66    |  |

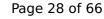
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | naccod |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Warmer Climate



| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825  |                 |                    |
|---|-----------------|--------------------|
|   | Low temperature | Medium temperature |
| $\eta_{s}$  | 178 %           | 134 %              |
| Prated  | 7.00 kW         | 7.00 kW            |
| SCOP  | 4.53            | 3.42               |
| Tbiv  | 2 °C            | 2 °C               |
| TOL   | 2 °C            | 2 °C               |
| Pdh Tj = $+2$ °C                                    | 6.70 kW         | 6.89 kW            |
| COP Tj = +2°C                                       | 3.38            | 2.50               |
| Pdh Tj = $+7^{\circ}$ C                             | 4.31 kW         | 4.47 kW            |
| $COPTj = +7^{\circ}C$                               | 4.81            | 3.28               |
| Pdh Tj = 12°C                                       | 3.32 kW         | 3.16 kW            |
| COP Tj = 12°C                                       | 6.73            | 4.98               |
| Pdh Tj = Tbiv                                       | 6.70 kW         | 6.89 kW            |
| COP Tj = Tbiv                                       | 3.38            | 2.50               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.70 kW         | 6.89 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.38            | 2.50               |





| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
|---|-------------|-------------|
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 1977 kWh    | 2694 kWh    |

### Colder Climate

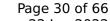
| EN 12102-1               |                 |                    |  |
|--------------------------|-----------------|--------------------|--|
|                          | Low temperature | Medium temperature |  |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |  |

| EN 14825   |                 |                    |
|------------|-----------------|--------------------|
|            | Low temperature | Medium temperature |
| $\eta_{s}$ | 135 %           | 101 %              |
| Prated     | 9.00 kW         | 9.00 kW            |
| SCOP       | 3.45            | 2.60               |
| Tbiv       | -7 °C           | -7 °C              |





|   |             | NK database on 22 jun 202. |
|---|-------------|----------------------------|
| TOL   | -20 °C      | -20 °C                     |
| Pdh Tj = -7°C                                       | 5.57 kW     | 5.31 kW                    |
| $COPTj = -7^{\circ}C$                               | 3.14        | 2.52                       |
| Pdh Tj = $+2$ °C                                    | 4.51 kW     | 3.50 kW                    |
| COP Tj = +2°C                                       | 4.51        | 3.50                       |
| Pdh Tj = $+7^{\circ}$ C                             | 2.89 kW     | 2.78 kW                    |
| $COPTj = +7^{\circ}C$                               | 5.78        | 4.56                       |
| Pdh Tj = 12°C                                       | 3.34 kW     | 3.23 kW                    |
| COP Tj = 12°C                                       | 6.96        | 5.59                       |
| Pdh Tj = Tbiv                                       | 5.57 kW     | 5.31 kW                    |
| COP Tj = Tbiv                                       | 2.55        | 2.09                       |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW     | 2.58 kW                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.55        | 2.09                       |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98                       |
| WTOL  | 60 °C       | 60 °C                      |
| Poff  | 27 W        | 27 W                       |
| РТО   | 63 W        | 63 W                       |
| PSB   | 27 W        | 27 W                       |
| PCK   | 35 W        | 35 W                       |
| Supplementary Heater: Type of energy input          | Electricity | Electricity                |
| Supplementary Heater: PSUP                          | 9.25 kW     | 8.76 kW                    |
|   | ·           |                            |





| Annual energy consumption Qhe | 6605 kWh | 8311 kWh |  |
|-------------------------------|----------|----------|--|
|                               |          |          |  |

### Average Climate

| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825      |                 |                    |
|---------------|-----------------|--------------------|
|               | Low temperature | Medium temperature |
| $\eta_{s}$    | 154 %           | 121 %              |
| Prated        | 6.00 kW         | 6.00 kW            |
| SCOP          | 3.92            | 3.11               |
| Tbiv          | -7 °C           | -7 °C              |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 5.48 kW         | 5.54 kW            |
| COP Tj = -7°C | 2.93            | 2.26               |
| Pdh Tj = +2°C | 3.28 kW         | 3.41 kW            |
| COP Tj = +2°C | 2.93            | 2.26               |
| Pdh Tj = +7°C | 2.86 kW         | 2.71 kW            |
| COP Tj = +7°C | 5.43            | 4.09               |
| Pdh Tj = 12°C | 3.34 kW         | 3.19 kW            |



| COP Tj = 12°C                                       | 6.96        | 5.26        |
|---|-------------|-------------|
| Pdh Tj = Tbiv                                       | 5.48 kW     | 5.54 kW     |
| COP Tj = Tbiv                                       | 2.93        | 2.26        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.47 kW     | 2.67 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.82        | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.75 kW     | 3.55 kW     |
| Annual energy consumption Qhe                       | 3280 kWh    | 4138 kWh    |

# **Model: LWZ 5 S Trend**

| Configure model                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Model name                          | LWZ 5 S Trend                   |  |
| Application                         | Heating (medium temp)           |  |
| Units                               | Indoor                          |  |
| Climate Zone                        | Colder Climate + Warmer Climate |  |
| Reversibility                       | No                              |  |
| Cooling mode application (optional) | n/a                             |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

| EN 14511-2  |                 |                    |  |
|-------------|-----------------|--------------------|--|
|             | Low temperature | Medium temperature |  |
| Heat output | 4.40 kW         | 3.84 kW            |  |
| El input    | 0.93 kW         | 1.44 kW            |  |
| СОР         | 4.74            | 2.66               |  |

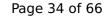
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | naccod |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### Warmer Climate



| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825  |                 |                    |
|---|-----------------|--------------------|
|   | Low temperature | Medium temperature |
| $\eta_{s}$  | 178 %           | 134 %              |
| Prated  | 7.00 kW         | 7.00 kW            |
| SCOP  | 4.53            | 3.42               |
| Tbiv  | 2 °C            | 2 °C               |
| TOL   | 2 °C            | 2 °C               |
| Pdh Tj = +2°C                                       | 6.70 kW         | 6.89 kW            |
| $COPTj = +2^{\circ}C$                               | 3.38            | 2.50               |
| Pdh Tj = +7°C                                       | 4.31 kW         | 4.47 kW            |
| $COPTj = +7^{\circ}C$                               | 4.81            | 3.28               |
| Pdh Tj = 12°C                                       | 3.32 kW         | 3.16 kW            |
| COP Tj = 12°C                                       | 6.73            | 4.98               |
| Pdh Tj = Tbiv                                       | 6.70 kW         | 6.89 kW            |
| COP Tj = Tbiv                                       | 3.38            | 2.50               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.70 kW         | 6.89 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.38            | 2.50               |
|   |                 |                    |



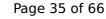


| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
|---|-------------|-------------|
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 1977 kWh    | 2694 kWh    |

### Colder Climate

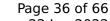
| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825        |                                       |  |
|-----------------|---------------------------------------|--|
| Low temperature | Medium temperature                    |  |
| 135 %           | 101 %                                 |  |
| 9.00 kW         | 9.00 kW                               |  |
| 3.45            | 2.60                                  |  |
| -7 °C           | -7 °C                                 |  |
|                 | Low temperature  135 %  9.00 kW  3.45 |  |





|   |             | The database on 22 Juli 202. |
|---|-------------|------------------------------|
| TOL   | -20 °C      | -13 °C                       |
| Pdh Tj = -7°C                                       | 5.57 kW     | 5.31 kW                      |
| $COPTj = -7^{\circ}C$                               | 3.14        | 2.52                         |
| Pdh Tj = $+2$ °C                                    | 3.45 kW     | 3.28 kW                      |
| COP Tj = +2°C                                       | 4.51        | 3.50                         |
| Pdh Tj = $+7^{\circ}$ C                             | 2.89 kW     | 2.78 kW                      |
| $COP Tj = +7^{\circ}C$                              | 5.78        | 4.56                         |
| Pdh Tj = 12°C                                       | 3.34 kW     | 3.23 kW                      |
| COP Tj = 12°C                                       | 6.96        | 5.59                         |
| Pdh Tj = Tbiv                                       | 5.57 kW     | 5.31 kW                      |
| COP Tj = Tbiv                                       | 3.14        | 2.52                         |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW     | 2.58 kW                      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.55        | 2.09                         |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98                         |
| WTOL  | 60 °C       | 60 °C                        |
| Poff  | 27 W        | 27 W                         |
| РТО   | 63 W        | 63 W                         |
| PSB   | 27 W        | 27 W                         |
| PCK   | 35 W        | 35 W                         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity                  |
| Supplementary Heater: PSUP                          | 9.25 kW     | 8.76 kW                      |
|   |             |                              |





| Annual energy consumption Qhe | 6605 kWh | 8311 kWh |  |
|-------------------------------|----------|----------|--|
|                               |          |          |  |

### Average Climate

| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{S}$              | 154 %           | 121 %              |
| Prated                  | 6.00 kW         | 6.00 kW            |
| SCOP                    | 3.92            | 3.11               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -10 °C          | -10 °C             |
| Pdh Tj = -7°C           | 5.48 kW         | 5.54 kW            |
| COP Tj = -7°C           | 2.93            | 2.26               |
| Pdh Tj = $+2^{\circ}$ C | 3.28 kW         | 3.41 kW            |
| $COP Tj = +2^{\circ}C$  | 4.18            | 3.27               |
| Pdh Tj = $+7^{\circ}$ C | 2.86 kW         | 2.71 kW            |
| $COP Tj = +7^{\circ}C$  | 5.43            | 4.09               |
| Pdh Tj = 12°C           | 3.34 kW         | 3.19 kW            |
|                         | ·               |                    |



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| COP Tj = 12°C                                       | 6.96        | 5.26        |
|---|-------------|-------------|
| Pdh Tj = Tbiv                                       | 5.48 kW     | 5.54 kW     |
| COP Tj = Tbiv                                       | 2.93        | 2.26        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.47 kW     | 2.67 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.82        | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.75 kW     | 3.55 kW     |
| Annual energy consumption Qhe                       | 3280 kWh    | 4138 kWh    |



## **Model: LWZ 5 CS Premium**

| Configure model                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Model name                          | LWZ 5 CS Premium                |  |
| Application                         | Heating (medium temp)           |  |
| Units                               | Indoor                          |  |
| Climate Zone                        | Colder Climate + Warmer Climate |  |
| Reversibility                       | No                              |  |
| Cooling mode application (optional) | n/a                             |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 4.40 kW         | 3.84 kW            |
| El input    | 0.93 kW         | 1.44 kW            |
| СОР         | 4.74            | 2.66               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

#### Warmer Climate



| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825  |                 |                    |  |
|---|-----------------|--------------------|--|
|   | Low temperature | Medium temperature |  |
| $\eta_{s}$  | 207 %           | 149 %              |  |
| Prated  | 7.00 kW         | 7.00 kW            |  |
| SCOP  | 5.25            | 3.80               |  |
| Tbiv  | 2 °C            | 2 °C               |  |
| TOL   | 2 °C            | 2 °C               |  |
| Pdh Tj = $+2$ °C                                      | 6.70 kW         | 6.89 kW            |  |
| $COP Tj = +2^{\circ}C$                                | 3.38            | 2.50               |  |
| Pdh Tj = $+7^{\circ}$ C                               | 4.31 kW         | 4.47 kW            |  |
| $COP Tj = +7^{\circ}C$                                | 4.81            | 3.28               |  |
| Pdh Tj = 12°C   | 3.32 kW         | 3.16 kW            |  |
| COP Tj = 12°C   | 6.73            | 4.98               |  |
| Pdh Tj = Tbiv   | 6.70 kW         | 6.89 kW            |  |
| COP Tj = Tbiv   | 3.38            | 2.50               |  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 6.70 kW         | 6.89 kW            |  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh   | 3.38            | 2.50               |  |



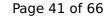


| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
|---|-------------|-------------|
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 1704 kWh    | 2420 kWh    |

#### Colder Climate

| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825   |                 |                    |
|------------|-----------------|--------------------|
|            | Low temperature | Medium temperature |
| $\eta_{s}$ | 138 %           | 103 %              |
| Prated     | 9.00 kW         | 9.00 kW            |
| SCOP       | 3.53            | 2.64               |
| Tbiv       | -7 °C           | -7 °C              |
|            |                 |                    |





|   | <del>,</del> | Tit database on 22 jun 202 |
|---|--------------|----------------------------|
| TOL   | -20 °C       | -13 °C                     |
| Pdh Tj = -7°C                                       | 5.57 kW      | 5.31 kW                    |
| $COP Tj = -7^{\circ}C$                              | 3.14         | 2.52                       |
| Pdh Tj = $+2$ °C                                    | 3.45 kW      | 3.28 kW                    |
| $COPTj = +2^{\circ}C$                               | 4.51         | 3.50                       |
| Pdh Tj = $+7^{\circ}$ C                             | 2.89 kW      | 2.78 kW                    |
| $COP Tj = +7^{\circ}C$                              | 5.78         | 4.56                       |
| Pdh Tj = 12°C                                       | 3.34 kW      | 3.23 kW                    |
| COP Tj = 12°C                                       | 6.96         | 5.59                       |
| Pdh Tj = Tbiv                                       | 5.57 kW      | 5.31 kW                    |
| COP Tj = Tbiv                                       | 3.14         | 2.52                       |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW      | 2.58 kW                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.55         | 2.09                       |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98         | 0.98                       |
| WTOL  | 60 °C        | 60 °C                      |
| Poff  | 27 W         | 27 W                       |
| РТО   | 63 W         | 63 W                       |
| PSB   | 27 W         | 27 W                       |
| РСК   | 35 W         | 35 W                       |
| Supplementary Heater: Type of energy input          | Electricity  | Electricity                |
| Supplementary Heater: PSUP                          | 9.25 kW      | 8.76 kW                    |
|   | +            | •                          |



|                               |          | l        |  |
|-------------------------------|----------|----------|--|
| Annual energy consumption Qhe | 6468 kWh | 8174 kWh |  |
|                               |          |          |  |

### Average Climate

| EN 12102-1               |                 |                    |
|--------------------------|-----------------|--------------------|
|                          | Low temperature | Medium temperature |
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

| EN 14825      |                 |                    |
|---------------|-----------------|--------------------|
|               | Low temperature | Medium temperature |
| $\eta_{s}$    | 165 %           | 129 %              |
| Prated        | 6.00 kW         | 6.00 kW            |
| SCOP          | 4.21            | 3.29               |
| Tbiv          | -7 °C           | -7 °C              |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 5.48 kW         | 5.54 kW            |
| COP Tj = -7°C | 2.93            | 2.26               |
| Pdh Tj = +2°C | 3.28 kW         | 3.41 kW            |
| COP Tj = +2°C | 4.18            | 3.27               |
| Pdh Tj = +7°C | 2.86 kW         | 2.71 kW            |
| COP Tj = +7°C | 5.43            | 4.09               |
| Pdh Tj = 12°C | 3.34 kW         | 3.19 kW            |



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| COP Tj = 12°C                                       | 6.96        | 5.26        |
|---|-------------|-------------|
| Pdh Tj = Tbiv                                       | 5.48 kW     | 5.54 kW     |
| COP Tj = Tbiv                                       | 2.93        | 2.26        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.47 kW     | 2.67 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.82        | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| РТО   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.75 kW     | 3.55 kW     |
| Annual energy consumption Qhe                       | 3052 kWh    | 3910 kWh    |



## **Model: LWZ 5 CS Premium DHW**

| Configure model                     |                      |  |
|-------------------------------------|----------------------|--|
| Model name                          | LWZ 5 CS Premium DHW |  |
| Application                         | Heating + DHW        |  |
| Units                               | Indoor               |  |
| Climate Zone                        | n/a                  |  |
| Reversibility                       | No                   |  |
| Cooling mode application (optional) | n/a                  |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

| EN 14511-2         |         |
|--------------------|---------|
| Medium temperature |         |
| Heat output        | 3.84 kW |
| El input           | 1.44 kW |
| СОР                | 2.66    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



| EN 12102-1               |                    |
|--------------------------|--------------------|
|                          | Medium temperature |
| Sound power level indoor | 52 dB(A)           |

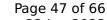
| EN 14825               |                    |
|------------------------|--------------------|
|                        | Medium temperature |
| $\eta_{s}$             | 121 %              |
| Prated                 | 6.00 kW            |
| SCOP                   | 3.11               |
| Tbiv                   | -7 °C              |
| TOL                    | -10 °C             |
| Pdh Tj = -7°C          | 5.54 kW            |
| COP Tj = -7°C          | 2.26               |
| Pdh Tj = +2°C          | 3.41 kW            |
| COP Tj = +2°C          | 3.27               |
| Pdh Tj = +7°C          | 2.71 kW            |
| $COP Tj = +7^{\circ}C$ | 4.09               |
| Pdh Tj = 12°C          | 3.19 kW            |
| COP Tj = 12°C          | 5.29               |
| Pdh Tj = Tbiv          | 5.54 kW            |
| COP Tj = Tbiv          | 2.26               |





| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.67 kW     |
|---|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        |
| WTOL  | 60 °C       |
| Poff  | 27 W        |
| РТО   | 63 W        |
| PSB   | 27 W        |
| PCK   | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 3.55 kW     |
| Annual energy consumption Qhe                       | 4138 kWh    |

Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency ηDHW                 | 111 %       |
| СОР                             | 2.70        |
| Heating up time                 | 02:06 h:min |
| Standby power input             | 132.0 W     |
| Reference hot water temperature | 57.0 °C     |
| Mixed water at 40°C             | 352 l       |





## Model: LWZ 504 E

| Configure model                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Model name                          | LWZ 504 E                       |  |
| Application                         | Heating (medium temp)           |  |
| Units                               | Indoor                          |  |
| Climate Zone                        | Colder Climate + Warmer Climate |  |
| Reversibility                       | No                              |  |
| Cooling mode application (optional) | n/a                             |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

EN 14511-2

### Heating

| Low temperature | Medium temperature |
|-----------------|--------------------|
| 4.40 kW         | 3.84 kW            |

| Heat output | 4.40 kW | 3.84 kW |
|-------------|---------|---------|
| El input    | 0.93 kW | 1.44 kW |
| СОР         | 4.74    | 2.66    |

| EN 14511-4                                 |        |  |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed |  |
| Complete power supply failure              | passed |  |
| Defrost test                               | passed |  |
| Starting and operating test                | passed |  |

#### Warmer Climate



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 207 %           | 150 %              |
| Prated                  | 9.00 kW         | 8.00 kW            |
| SCOP                    | 5.24            | 3.82               |
| Tbiv                    | 2 °C            | 2 °C               |
| TOL                     | 2 °C            | 2 °C               |
| Pdh Tj = -7°C           | 0.00 kW         | 0.00 kW            |
| COP Tj = -7°C           | 0.00            | 0.00               |
| Pdh Tj = +2°C           | 8.81 kW         | 8.32 kW            |
| COP Tj = +2°C           | 3.18            | 2.34               |
| Pdh Tj = $+7^{\circ}$ C | 5.77 kW         | 5.41 kW            |
| COP Tj = +7°C           | 4.57            | 3.26               |
| Pdh Tj = 12°C           | 3.34 kW         | 3.17 kW            |
| COP Tj = 12°C           | 6.89            | 5.11               |
| Pdh Tj = Tbiv           | 8.81 kW         | 8.32 kW            |



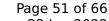


| COP Tj = Tbiv                                       | 3.18        | 2.34        |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.81 kW     | 8.32 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.18        | 2.34        |
| Rated airflow rate                                  | 0 m³/h      | 0 m³/h      |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.98        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 27 W        | 27 W        |
| PTO   | 63 W        | 63 W        |
| PSB   | 27 W        | 27 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2243 kWh    | 2911 kWh    |

### Colder Climate

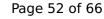
| EN 12102-1                |                 |                    |  |
|---------------------------|-----------------|--------------------|--|
|                           | Low temperature | Medium temperature |  |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |  |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |  |

| EN 14825 |                 |                    |
|----------|-----------------|--------------------|
|          | Low temperature | Medium temperature |





|   |          | •        |
|---|----------|----------|
| $\eta_{s}$  | 131 %    | 102 %    |
| Prated  | 14.00 kW | 11.00 kW |
| SCOP  | 3.34     | 2.62     |
| Tbiv  | -7 °C    | -7 °C    |
| TOL   | -20 °C   | -13 °C   |
| Pdh Tj = -7°C   | 8.62 kW  | 6.38 kW  |
| $COP Tj = -7^{\circ}C$                                | 2.96     | 2.50     |
| Pdh Tj = $+2$ °C                                      | 5.28 kW  | 3.92 kW  |
| $COP Tj = +2^{\circ}C$                                | 4.20     | 3.48     |
| Pdh Tj = $+7^{\circ}$ C                               | 3.42 kW  | 2.79 kW  |
| COP Tj = +7°C   | 5.87     | 4.68     |
| Pdh Tj = 12°C   | 3.35 kW  | 3.24 kW  |
| COP Tj = 12°C   | 7.12     | 5.67     |
| Pdh Tj = Tbiv   | 8.62 kW  | 6.38 kW  |
| COP Tj = Tbiv   | 2.56     | 2.50     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh | 5.73 kW  | 2.58 kW  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh   | 2.56     | 6.38     |
| Rated airflow rate                                    | 0 m³/h   | 0 m³/h   |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh   | 0.98     | 0.98     |
| WTOL  | 60 °C    | 60 °C    |

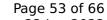




| Poff                                       | 27 W        | 27 W        |
|--|-------------|-------------|
| РТО  | 63 W        | 63 W        |
| PSB  | 27 W        | 27 W        |
| PCK  | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 14.24 kW    | 10.57 kW    |
| Annual energy consumption Qhe              | 10498 kWh   | 9932 kWh    |

| EN 12102-1                |                 |                    |  |
|---------------------------|-----------------|--------------------|--|
|                           | Low temperature | Medium temperature |  |
| Sound power level indoor  | 52 dB(A)        | 52 dB(A)           |  |
| Sound power level outdoor | 55 dB(A)        | 50 dB(A)           |  |

| EN 14825        |   |  |
|-----------------|---|--|
| Low temperature | Medium temperature                            |  |
| 163 %           | 128 %   |  |
| 10.00 kW        | 7.00 kW                                       |  |
| 4.14            | 3.27  |  |
| -7 °C           | -7 °C   |  |
| -10 °C          | -10 °C  |  |
|                 | Low temperature  163 %  10.00 kW  4.14  -7 °C |  |





| This information was genera                         | iced by the in Reinm | in adiabase on 22 jun 2022 |
|---|----------------------|----------------------------|
| Pdh Tj = -7°C                                       | 8.42 kW              | 5.87 kW                    |
| COP Tj = -7°C                                       | 2.76                 | 2.26                       |
| Pdh Tj = +2°C                                       | 5.12 kW              | 3.52 kW                    |
| COP Tj = +2°C                                       | 3.94                 | 3.27                       |
| Pdh Tj = +7°C                                       | 3.26 kW              | 2.72 kW                    |
| $COP Tj = +7^{\circ}C$                              | 5.53                 | 4.14                       |
| Pdh Tj = 12°C                                       | 3.35 kW              | 3.20 kW                    |
| COP Tj = 12°C                                       | 7.09                 | 5.29                       |
| Pdh Tj = Tbiv                                       | 8.42 kW              | 5.87 kW                    |
| COP Tj = Tbiv                                       | 2.76                 | 2.26                       |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.37 kW              | 2.67 kW                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.69                 | 1.88                       |
| Rated airflow rate                                  | 0 m³/h               | 0 m³/h                     |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98                 | 0.98                       |
| WTOL  | 60 °C                | 60 °C                      |
| Poff  | 27 W                 | 27 W                       |
| РТО   | 63 W                 | 63 W                       |
| PSB   | 27 W                 | 27 W                       |
| PCK   | 35 W                 | 35 W                       |
| Supplementary Heater: Type of energy input          | Electricity          | Electricity                |
| Supplementary Heater: PSUP                          | 1.15 kW              | 3.97 kW                    |
|   |                      |                            |



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| Annual energy consumption Qhe | 4755 kWh | 4199 kWh |
|-------------------------------|----------|----------|
|-------------------------------|----------|----------|

## **Model: LWZ 504 E DHW**

| Configure                           | model         |
|-------------------------------------|---------------|
| Model name                          | LWZ 504 E DHW |
| Application                         | Heating + DHW |
| Units                               | Indoor        |
| Climate Zone                        | n/a           |
| Reversibility                       | No            |
| Cooling mode application (optional) | n/a           |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

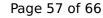
| EN 14511-2  |                    |
|-------------|--------------------|
|             | Medium temperature |
| Heat output | 3.84 kW            |
| El input    | 1.44 kW            |
| СОР         | 2.66               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



| EN 12102-1                |                    |
|---------------------------|--------------------|
|                           | Medium temperature |
| Sound power level indoor  | 52 dB(A)           |
| Sound power level outdoor | 50 dB(A)           |

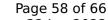
| EN 14825      |                    |
|---------------|--------------------|
|               | Medium temperature |
| $\eta_s$      | 128 %              |
| Prated        | 7.00 kW            |
| SCOP          | 3.27               |
| Tbiv          | -7 °C              |
| TOL           | -10 °C             |
| Pdh Tj = -7°C | 5.87 kW            |
| COP Tj = -7°C | 2.26               |
| Pdh Tj = +2°C | 3.52 kW            |
| COP Tj = +2°C | 3.27               |
| Pdh Tj = +7°C | 2.72 kW            |
| COP Tj = +7°C | 4.14               |
| Pdh Tj = 12°C | 3.20 kW            |
| COP Tj = 12°C | 5.29               |
| Pdh Tj = Tbiv | 5.87 kW            |
|               |                    |





| COP Tj = Tbiv                                       | 2.26        |
|---|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.67 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.88        |
| Rated airflow rate                                  | 0 m³/h      |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        |
| WTOL  | 60 °C       |
| Poff  | 27 W        |
| РТО   | 63 W        |
| PSB   | 27 W        |
| PCK   | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 3.97 kW     |
| Annual energy consumption Qhe                       | 4199 kWh    |

Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency ηDHW                 | 111 %       |
| СОР                             | 2.70        |
| Heating up time                 | 02:06 h:min |
| Standby power input             | 132.0 W     |
| Reference hot water temperature | 57.0 °C     |
| Mixed water at 40°C             | 352 l       |

# Model: LWZ 5 S smart DHW

| Configure                           | e model           |
|-------------------------------------|-------------------|
| Model name                          | LWZ 5 S smart DHW |
| Application                         | Heating + DHW     |
| Units                               | Indoor            |
| Climate Zone                        | n/a               |
| Reversibility                       | No                |
| Cooling mode application (optional) | n/a               |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

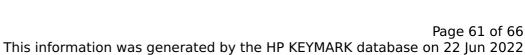
| EN 14511-2         |         |
|--------------------|---------|
| Medium temperature |         |
| Heat output        | 3.84 kW |
| El input           | 1.44 kW |
| СОР                | 2.66    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



| EN 12102-1               |                    |
|--------------------------|--------------------|
|                          | Medium temperature |
| Sound power level indoor | 52 dB(A)           |

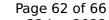
| EN 14825               |                    |
|------------------------|--------------------|
|                        | Medium temperature |
| $\eta_{s}$             | 121 %              |
| Prated                 | 6.00 kW            |
| SCOP                   | 3.11               |
| Tbiv                   | -7 °C              |
| TOL                    | -10 °C             |
| Pdh Tj = -7°C          | 5.54 kW            |
| COP Tj = -7°C          | 2.26               |
| Pdh Tj = +2°C          | 3.41 kW            |
| COP Tj = +2°C          | 3.27               |
| Pdh Tj = +7°C          | 2.71 kW            |
| $COP Tj = +7^{\circ}C$ | 4.09               |
| Pdh Tj = 12°C          | 3.19 kW            |
| COP Tj = 12°C          | 5.29               |
| Pdh Tj = Tbiv          | 5.54 kW            |
| COP Tj = Tbiv          | 2.26               |



| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.67 kW     |
|---|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        |
| WTOL  | 60 °C       |
| Poff  | 27 W        |
| PTO   | 63 W        |
| PSB   | 27 W        |
| PCK   | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 3.55 kW     |
| Annual energy consumption Qhe                       | 4138 kWh    |

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | XL          |  |
| Efficiency ηDHW                 | 111 %       |  |
| СОР                             | 2.70        |  |
| Heating up time                 | 02:06 h:min |  |
| Standby power input             | 132.0 W     |  |
| Reference hot water temperature | 57.0 °C     |  |
| Mixed water at 40°C             | 352 I       |  |



# **Model: LWZ 5 S Plus DHW**

| Configure model                     |                  |  |
|-------------------------------------|------------------|--|
| Model name                          | LWZ 5 S Plus DHW |  |
| Application                         | Heating + DHW    |  |
| Units                               | Indoor           |  |
| Climate Zone                        | n/a              |  |
| Reversibility                       | No               |  |
| Cooling mode application (optional) | n/a              |  |

| General Data |             |  |
|--------------|-------------|--|
| Power supply | 1x230V 50Hz |  |

### Heating

| EN 14511-2         |         |
|--------------------|---------|
| Medium temperature |         |
| Heat output        | 3.84 kW |
| El input           | 1.44 kW |
| СОР                | 2.66    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



| EN 12102-1               |                    |
|--------------------------|--------------------|
|                          | Medium temperature |
| Sound power level indoor | 52 dB(A)           |

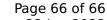
| EN 14825               |                    |  |
|------------------------|--------------------|--|
|                        | Medium temperature |  |
| $\eta_{s}$             | 121 %              |  |
| Prated                 | 6.00 kW            |  |
| SCOP                   | 3.11               |  |
| ГЬіν                   | -7 °C              |  |
| ГОL                    | -10 °C             |  |
| Pdh Tj = -7°C          | 5.54 kW            |  |
| COP Tj = -7°C          | 2.26               |  |
| Pdh Tj = +2°C          | 3.41 kW            |  |
| COP Tj = +2°C          | 3.27               |  |
| Pdh Tj = +7°C          | 2.71 kW            |  |
| $COP Tj = +7^{\circ}C$ | 4.09               |  |
| Pdh Tj = 12°C          | 3.19 kW            |  |
| COP Tj = 12°C          | 5.29               |  |
| Pdh Tj = Tbiv          | 5.54 kW            |  |
| COP Tj = Tbiv          | 2.26               |  |





| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.67 kW     |
|---|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.88        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        |
| WTOL  | 60 °C       |
| Poff  | 27 W        |
| РТО   | 63 W        |
| PSB   | 27 W        |
| PCK   | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 3.55 kW     |
| Annual energy consumption Qhe                       | 4138 kWh    |

Domestic Hot Water (DHW)





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | XL          |  |
| Efficiency ηDHW                 | 111 %       |  |
| СОР                             | 2.70        |  |
| Heating up time                 | 02:06 h:min |  |
| Standby power input             | 132.0 W     |  |
| Reference hot water temperature | 57.0 °C     |  |
| Mixed water at 40°C             | 352 l       |  |