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| | | | |
|---------------------|--|----------|----------|
| Summary of | VWL 55/6 A 230V | Reg. No. | 40050984 |
| Certificate Holder | | | |
| Name | Vaillant Deutschland GmbH & Co KG | | |
| Address | Berghauser Straße 40 | Zip | 42859 |
| City | Remscheid | Country | Germany |
| Certification Body | VDE Prüf- und Zertifizierungsinstitut GmbH | | |
| Subtype title | VWL 55/6 A 230V | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R290 | | |
| Mass of Refrigerant | 0.6 kg | | |
| Certification Date | 12.11.2021 | | |
| Testing basis | DIN EN 14511-1:2019-07; EN 14511-1:2018; DIN EN 14511-2:2019-07; EN 14511-2:2018; DIN EN 14511-3:2019-07; EN 14511-3:2018; DIN EN 14511-4:2019-07; EN 14511-4:2018; DIN EN 14825:2019-07; EN 14825:2018; DIN EN 12102-1:2018-02; EN 12102-1:2017 | | |

Model: VWL 55/6 A 230V

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | VWL 55/6 A 230V |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 3.36 kW | 4.83 kW |
| El input | 0.69 kW | 1.71 kW |
| COP | 4.80 | 2.80 |

| 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

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 183 % | 130 % |
| Prated | 4.81 kW | 4.88 kW |
| SCOP | 4.66 | 3.33 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.26 kW | 4.32 kW |
| COP Tj = -7°C | 2.78 | 2.11 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.70 kW | 2.46 kW |
| COP Tj = +2°C | 4.62 | 3.19 |
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 2.29 kW | 2.12 kW |
| COP Tj = +7°C | 6.41 | 4.40 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.61 kW | 2.52 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.61 | 6.03 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 4.26 kW | 4.63 kW |
| COP Tj = Tbiv | 2.78 | 1.86 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.13 kW | 4.63 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.43 | 1.86 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 70 °C | 70 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.68 kW | 0.25 kW |
| Annual energy consumption Qhe | 2135 kWh | 3029 kWh |

Warmer Climate

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 233 % | 157 % |
| Prated | 4.96 kW | 5.07 kW |

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| | | |
|---|---------|---------|
| SCOP | 5.89 | 3.99 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 4.96 kW | 5.07 kW |
| COP Tj = +2°C | 3.35 | 2.30 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 3.42 kW | 3.08 kW |
| COP Tj = +7°C | 5.45 | 3.43 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.59 kW | 2.42 kW |
| COP Tj = 12°C | 7.25 | 5.17 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 4.96 kW | 5.07 kW |
| COP Tj = Tbiv | 3.35 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.96 kW | 5.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.35 | 2.30 |
| WTOL | 70 °C | 70 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 1125 kWh | 1697 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Colder Climate

| EN 14825 | | |
|--|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 158 % | 116 % |
| Prated | 5.01 kW | 4.76 kW |
| SCOP | 4.02 | 2.98 |
| T _{biv} | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 3.22 kW | 2.89 kW |
| COP T _j = -7°C | 3.36 | 2.45 |
| C _{dh} T _j = -7 °C | 0.980 | 0.990 |
| P _{dh} T _j = +2°C | 1.92 kW | 1.85 kW |
| COP T _j = +2°C | 5.04 | 3.65 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.33 kW | 2.21 kW |
| COP Tj = +7°C | 6.82 | 5.01 |
| Cdh Tj = +7 °C | 0.960 | 0.960 |
| Pdh Tj = 12°C | 2.62 kW | 2.56 kW |
| COP Tj = 12°C | 7.24 | 6.46 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 4.09 kW | 3.88 kW |
| COP Tj = Tbiv | 2.13 | 1.67 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.04 kW | 3.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.00 | 1.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 70 °C | 70 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.01 kW | 4.76 kW |
| Annual energy consumption Qhe | 3076 kWh | 3930 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 4.09 | 3.88 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|-------------------------------|-------|-------|
| COP Tj = -15°C (if TOL<-20°C) | 2.13 | 1.67 |
| Cdh Tj = -15 °C | 0.990 | 0.990 |

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Model: VWL 55/6 A 230V S2

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | VWL 55/6 A 230V S2 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| 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 | 3.36 kW | 4.83 kW |
| El input | 0.69 kW | 1.71 kW |
| COP | 4.80 | 2.80 |

| 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

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 181 % | 129 % |
| Prated | 4.81 kW | 4.88 kW |
| SCOP | 4.59 | 3.30 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 4.26 kW | 4.32 kW |
| COP Tj = -7°C | 2.78 | 2.11 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.70 kW | 2.46 kW |
| COP Tj = +2°C | 4.62 | 3.19 |
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 2.29 kW | 2.12 kW |
| COP Tj = +7°C | 6.41 | 4.40 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.61 kW | 2.52 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.61 | 6.03 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 4.26 kW | 4.63 kW |
| COP Tj = Tbiv | 2.78 | 1.86 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.13 kW | 4.63 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.43 | 1.86 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 70 °C | 70 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.69 kW | 0.25 kW |
| Annual energy consumption Qhe | 2165 kWh | 3059 kWh |

Warmer Climate

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 225 % | 153 % |
| Prated | 4.96 kW | 5.07 kW |

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| | | |
|---|---------|---------|
| SCOP | 5.71 | 3.91 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 4.96 kW | 5.07 kW |
| COP Tj = +2°C | 3.35 | 2.30 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 3.42 kW | 3.08 kW |
| COP Tj = +7°C | 5.45 | 3.43 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.59 kW | 2.42 kW |
| COP Tj = 12°C | 7.25 | 5.17 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 4.96 kW | 5.07 kW |
| COP Tj = Tbiv | 3.35 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.96 kW | 5.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.35 | 2.30 |
| WTOL | 70 °C | 70 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |

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| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 1161 kWh | 1733 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Colder Climate

| EN 14825 | | |
|--|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 157 % | 116 % |
| Prated | 5.01 kW | 4.76 kW |
| SCOP | 3.99 | 2.97 |
| T _{biv} | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 3.22 kW | 2.89 kW |
| COP T _j = -7°C | 3.36 | 2.45 |
| C _{dh} T _j = -7 °C | 0.980 | 0.990 |
| P _{dh} T _j = +2°C | 1.92 kW | 1.85 kW |
| COP T _j = +2°C | 5.04 | 3.65 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.33 kW | 2.21 kW |
| COP Tj = +7°C | 6.82 | 5.01 |
| Cdh Tj = +7 °C | 0.960 | 0.960 |
| Pdh Tj = 12°C | 2.62 kW | 2.56 kW |
| COP Tj = 12°C | 7.24 | 6.46 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 4.09 kW | 3.88 kW |
| COP Tj = Tbiv | 2.13 | 1.67 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.04 kW | 3.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.00 | 1.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 70 °C | 70 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.01 kW | 4.76 kW |
| Annual energy consumption Qhe | 3094 kWh | 3948 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 4.09 | 3.88 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|-------------------------------|-------|-------|
| COP Tj = -15°C (if TOL<-20°C) | 2.13 | 1.67 |
| Cdh Tj = -15 °C | 0.990 | 0.990 |

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Model: VWL 55/6 A 230V S3

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | VWL 55/6 A 230V S3 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

Heating

| 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 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 4.21 kW | 4.83 kW |
| El input | 0.95 kW | 1.71 kW |
| COP | 4.39 | 2.80 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14825

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 177 % | 130 % |
| Prated | 4.45 kW | 4.88 kW |
| SCOP | 4.50 | 3.33 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.93 kW | 4.32 kW |
| COP Tj = -7°C | 2.79 | 2.11 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.17 kW | 2.46 kW |
| COP Tj = +2°C | 4.46 | 3.19 |
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 2.26 kW | 2.12 kW |
| COP Tj = +7°C | 5.99 | 4.40 |
| Cdh Tj = +7 °C | 0.960 | 0.960 |
| Pdh Tj = 12°C | 2.54 kW | 2.52 kW |
| COP Tj = 12°C | 7.16 | 6.03 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 4.42 kW | 4.63 kW |
| COP Tj = Tbiv | 2.21 | 1.86 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 4.42 kW | 4.63 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 2.21 | 1.86 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | | |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.03 kW | 0.25 kW |
| Annual energy consumption Q_{he} | 2045 kWh | 3029 kWh |

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 52 dB(A) | 54 dB(A) |

Warmer Climate

EN 14825

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 215 % | 157 % |
| Prated | 4.75 kW | 5.07 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|---------|---------|
| SCOP | 5.44 | 3.99 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 4.75 kW | 5.07 kW |
| COP Tj = +2°C | 3.22 | 2.30 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 3.33 kW | 3.08 kW |
| COP Tj = +7°C | 5.07 | 3.43 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |
| Pdh Tj = 12°C | 2.48 kW | 2.42 kW |
| COP Tj = 12°C | 6.61 | 5.17 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 4.75 kW | 5.07 kW |
| COP Tj = Tbiv | 3.22 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.75 kW | 5.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.22 | 2.30 |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 1166 kWh | 1697 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 52 dB(A) | 54 dB(A) |

Colder Climate

| EN 14825 | | |
|--|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 148 % | 116 % |
| Prated | 4.68 kW | 4.76 kW |
| SCOP | 3.77 | 2.98 |
| T _{biv} | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 2.69 kW | 2.89 kW |
| COP T _j = -7°C | 3.26 | 2.45 |
| C _{dh} T _j = -7 °C | 0.980 | 0.990 |
| P _{dh} T _j = +2°C | 1.90 kW | 1.85 kW |
| COP T _j = +2°C | 4.66 | 3.65 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.22 kW | 2.21 kW |
| COP Tj = +7°C | 6.04 | 5.01 |
| Cdh Tj = +7 °C | 0.960 | 0.960 |
| Pdh Tj = 12°C | 2.49 kW | 2.56 kW |
| COP Tj = 12°C | 6.79 | 6.46 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 3.82 kW | 3.88 kW |
| COP Tj = Tbiv | 2.01 | 1.67 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.70 kW | 3.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.88 | 1.50 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.68 kW | 4.76 kW |
| Annual energy consumption Qhe | 3064 kWh | 3930 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 3.82 | 3.88 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|-------------------------------|-------|-------|
| COP Tj = -15°C (if TOL<-20°C) | 2.01 | 1.67 |
| Cdh Tj = -15 °C | 0.990 | 0.990 |

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 52 dB(A) | 54 dB(A) |

Model: VWL 35/6 A 230V

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | VWL 35/6 A 230V |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

Heating

| 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 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 3.32 kW | 4.79 kW |
| El input | 0.69 kW | 1.71 kW |
| COP | 4.80 | 2.80 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 124 % |
| Prated | 4.19 kW | 4.18 kW |
| SCOP | 4.50 | 3.18 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.71 kW | 3.69 kW |
| COP Tj = -7°C | 3.04 | 2.08 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.18 kW | 2.32 kW |
| COP Tj = +2°C | 4.40 | 3.01 |
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 2.15 kW | 2.03 kW |
| COP Tj = +7°C | 5.96 | 4.28 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.41 kW | 2.42 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.04 | 5.84 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 3.71 kW | 3.69 kW |
| COP Tj = Tbiv | 3.04 | 2.08 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.34 kW | 3.31 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.81 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.85 kW | 0.87 kW |
| Annual energy consumption Qhe | 1923 kWh | 2715 kWh |

Warmer Climate

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 208 % | 153 % |
| Prated | 3.53 kW | 3.55 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|---------|---------|
| SCOP | 5.29 | 3.89 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 3.53 kW | 3.55 kW |
| COP Tj = +2°C | 3.42 | 2.31 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 2.18 kW | 2.44 kW |
| COP Tj = +7°C | 4.97 | 3.37 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.40 kW | 2.37 kW |
| COP Tj = 12°C | 6.45 | 5.11 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 3.53 kW | 3.55 kW |
| COP Tj = Tbiv | 3.42 | 2.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.53 kW | 3.55 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.42 | 2.31 |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 892 kWh | 1219 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Colder Climate

| EN 14825 | | |
|--|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 147 % | 108 % |
| Prated | 3.34 kW | 3.15 kW |
| SCOP | 3.75 | 2.78 |
| T _{biv} | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 2.11 kW | 1.92 kW |
| COP T _j = -7°C | 3.34 | 2.25 |
| C _{dh} T _j = -7 °C | 0.980 | 0.980 |
| P _{dh} T _j = +2°C | 1.78 kW | 1.71 kW |
| COP T _j = +2°C | 4.45 | 3.46 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.16 kW | 2.09 kW |
| COP Tj = +7°C | 6.23 | 4.71 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.49 kW | 2.44 kW |
| COP Tj = 12°C | 7.22 | 6.17 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 2.72 kW | 2.57 kW |
| COP Tj = Tbiv | 2.16 | 1.61 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.69 kW | 2.43 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.06 | 1.46 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.34 kW | 3.15 kW |
| Annual energy consumption Qhe | 2192 kWh | 2787 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | | |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|-------------------------------|--|--|
| COP Tj = -15°C (if TOL<-20°C) | | |
| Cdh Tj = -15 °C | | |

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Model: VWL 35/6 A 230V S2

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | VWL 35/6 A 230V S2 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

Heating

| 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 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 3.32 kW | 4.79 kW |
| El input | 0.69 kW | 1.71 kW |
| COP | 4.80 | 2.80 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 174 % | 123 % |
| Prated | 4.19 kW | 4.18 kW |
| SCOP | 4.43 | 3.14 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.71 kW | 3.69 kW |
| COP Tj = -7°C | 3.04 | 2.08 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.18 kW | 2.32 kW |
| COP Tj = +2°C | 4.40 | 3.01 |
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 2.15 kW | 2.03 kW |
| COP Tj = +7°C | 5.96 | 4.28 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.41 kW | 2.42 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.04 | 5.84 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 3.71 kW | 3.69 kW |
| COP Tj = Tbiv | 3.04 | 2.08 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.34 kW | 3.31 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.81 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.85 kW | 0.87 kW |
| Annual energy consumption Qhe | 1953 kWh | 2745 kWh |

Warmer Climate

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 200 % | 148 % |
| Prated | 3.53 kW | 3.55 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|---------|---------|
| SCOP | 5.08 | 3.78 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 3.53 kW | 3.55 kW |
| COP Tj = +2°C | 3.42 | 2.31 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 2.18 kW | 2.44 kW |
| COP Tj = +7°C | 4.97 | 3.37 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.40 kW | 2.37 kW |
| COP Tj = 12°C | 6.45 | 5.11 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 3.53 kW | 3.55 kW |
| COP Tj = Tbiv | 3.42 | 2.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.53 kW | 3.55 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.42 | 2.31 |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 928 kWh | 1255 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Colder Climate

| EN 14825 | | |
|--|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 146 % | 108 % |
| Prated | 3.34 kW | 3.15 kW |
| SCOP | 3.72 | 2.77 |
| T _{biv} | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| P _{dh} T _j = -7°C | 2.11 kW | 1.92 kW |
| COP T _j = -7°C | 3.34 | 2.25 |
| C _{dh} T _j = -7 °C | 0.980 | 0.980 |
| P _{dh} T _j = +2°C | 1.78 kW | 1.71 kW |
| COP T _j = +2°C | 4.45 | 3.46 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.16 kW | 2.09 kW |
| COP Tj = +7°C | 6.23 | 4.71 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.49 kW | 2.44 kW |
| COP Tj = 12°C | 7.22 | 6.17 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 2.72 kW | 2.57 kW |
| COP Tj = Tbiv | 2.16 | 1.61 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.69 kW | 2.43 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.06 | 1.46 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 55 °C | 55 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.34 kW | 3.15 kW |
| Annual energy consumption Qhe | 2210 kWh | 2805 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | | |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|-------------------------------|--|--|
| COP Tj = -15°C (if TOL<-20°C) | | |
| Cdh Tj = -15 °C | | |

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level outdoor | 51 dB(A) | 54 dB(A) |

Model: VWL 45/6 A 230V S3

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | VWL 45/6 A 230V S3 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 4.07 kW | 3.64 kW |
| El input | 0.89 kW | 1.28 kW |
| COP | 4.59 | 2.83 |

| 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

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 50 dB(A) | 52 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 131 % |
| Prated | 4.13 kW | 4.22 kW |
| SCOP | 4.56 | 3.34 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.65 kW | 3.73 kW |
| COP Tj = -7°C | 2.97 | 2.12 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 2.20 kW | 2.28 kW |
| COP Tj = +2°C | 4.48 | 3.24 |
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 2.23 kW | 2.11 kW |
| COP Tj = +7°C | 6.02 | 4.45 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.59 kW | 2.54 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 7.39 | 5.97 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 3.65 kW | 3.73 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.65 kW | 3.35 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.65 | 1.86 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 75 °C | 75 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.48 kW | 0.87 kW |
| Annual energy consumption Qhe | 1870 kWh | 2606 kWh |

Warmer Climate

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

| EN 14825 |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 220 % | 155 % |
| Prated | 3.40 kW | 3.43 kW |
| SCOP | 5.57 | 3.94 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 3.44 kW | 3.43 kW |
| COP Tj = +2°C | 3.36 | 2.28 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 2.33 kW | 2.16 kW |
| COP Tj = +7°C | 5.21 | 3.39 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.57 kW | 2.45 kW |
| COP Tj = 12°C | 7.00 | 5.25 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 3.44 kW | 3.43 kW |
| COP Tj = Tbiv | 3.36 | 2.28 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.44 kW | 3.43 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.36 | 2.28 |
| WTOL | 75 °C | 75 °C |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 815 kWh | 1164 kWh |

Colder Climate

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

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 152 % | 113 % |
| Prated | 4.00 kW | 3.48 kW |
| SCOP | 3.87 | 2.90 |
| Tbiv | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 2.42 kW | 2.12 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|---------|---------|
| COP Tj = -7°C | 3.26 | 2.40 |
| Cdh Tj = -7 °C | 0.980 | 0.980 |
| Pdh Tj = +2°C | 1.92 kW | 1.76 kW |
| COP Tj = +2°C | 4.80 | 3.53 |
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.26 kW | 2.14 kW |
| COP Tj = +7°C | 6.27 | 4.81 |
| Cdh Tj = +7 °C | 0.960 | 0.970 |
| Pdh Tj = 12°C | 2.59 kW | 2.57 kW |
| COP Tj = 12°C | 7.39 | 6.27 |
| Cdh Tj = +12 °C | 0.960 | 0.960 |
| Pdh Tj = Tbiv | 3.11 kW | 2.84 kW |
| COP Tj = Tbiv | 2.37 | 1.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 2.66 kW | 2.41 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.02 | 1.47 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 75 °C | 75 °C |
| Poff | 8 W | 8 W |
| PTO | 17 W | 17 W |
| PSB | 17 W | 17 W |
| PCK | 0 W | 0 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.00 kW | 3.48 kW |
| Annual energy consumption Q _{he} | 2543 kWh | 2959 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | | |
| COP T _j = -15°C (if TOL<-20°C) | | |
| C _{dh} T _j = -15 °C | | |