

This information was generated by the HP KEYMARK database on 23 Jun 2022

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| | | | |
|---------------------|---|----------|------------|
| Summary of | Bosch Compress 7800i LW 6 and 8 | Reg. No. | 011-1W0431 |
| Certificate Holder | | | |
| Name | Bosch Thermotechnik GmbH | | |
| Address | Junkersstraße 20 - 24 | Zip | 73249 |
| City | Wernau | Country | Germany |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Subtype title | Bosch Compress 7800i LW 6 and 8 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.35 kg | | |
| Certification Date | 08.12.2020 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. 7 | | |

Model: CS7800i LW 6 M (+MF)

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | CS7800i LW 6 M (+MF) |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | No |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 5.85 kW | 5.24 kW |
| El input | 1.35 kW | 1.91 kW |
| COP | 4.33 | 2.75 |

| 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

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EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 200 % | 141 % |
| Prated | 5.85 kW | 5.24 kW |
| SCOP | 5.21 | 3.73 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.85 kW | 5.24 kW |
| COP Tj = +2°C | 4.33 | 2.75 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 3.98 kW | 3.63 kW |
| COP Tj = +7°C | 5.14 | 3.47 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 2.12 kW | 1.97 kW |
| COP Tj = 12°C | 5.90 | 4.46 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 5.85 kW | 5.24 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 4.33 | 2.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.85 kW | 5.24 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.33 | 2.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Qhe | 1500 kWh | 1876 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 35 dB(A) | 35 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 210 % | 151 % |

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| | | |
|---|---------|---------|
| Prated | 5.85 kW | 5.24 kW |
| SCOP | 5.44 | 3.99 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.62 kW | 3.29 kW |
| COP Tj = -7°C | 5.29 | 3.71 |
| Cdh Tj = -7 °C | 0.98 | 0.99 |
| Pdh Tj = +2°C | 2.34 kW | 1.94 kW |
| COP Tj = +2°C | 5.85 | 4.37 |
| Cdh Tj = +2 °C | 0.97 | 0.97 |
| Pdh Tj = +7°C | 2.13 kW | 1.98 kW |
| COP Tj = +7°C | 5.86 | 4.69 |
| Cdh Tj = +7 °C | 0.97 | 0.97 |
| Pdh Tj = 12°C | 2.11 kW | 2.00 kW |
| COP Tj = 12°C | 5.78 | 4.78 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 5.85 kW | 5.24 kW |
| COP Tj = Tbiv | 4.33 | 2.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.85 kW | 5.24 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.33 | 2.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Qhe | 2650 kWh | 3241 kWh |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 35 dB(A) | 35 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 145 % |
| Prated | 5.85 kW | 5.24 kW |
| SCOP | 5.26 | 3.82 |
| Tbiv | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.13 kW | 4.58 kW |
| COP Tj = -7°C | 4.53 | 2.97 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 3.34 kW | 3.04 kW |
| COP Tj = +2°C | 5.39 | 3.87 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 2.12 kW | 1.97 kW |
| COP Tj = +7°C | 5.87 | 4.52 |
| Cdh Tj = +7 °C | 0.97 | 0.97 |
| Pdh Tj = 12°C | 2.12 kW | 1.97 kW |
| COP Tj = 12°C | 5.91 | 4.57 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 5.85 kW | 5.24 kW |
| COP Tj = Tbiv | 4.33 | 2.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.85 kW | 5.24 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.33 | 2.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Q _{he} | 2298 kWh | 2835 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|------------|
| | |
| Declared load profile | XL |
| Efficiency η_{DHW} | 135 % |
| COP | 3.27 |
| Heating up time | 1:34 h:min |
| Standby power input | 30.9 W |
| Reference hot water temperature | 47.6 °C |
| Mixed water at 40°C | 211 l |

Colder Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 135 % |
| COP | 3.27 |
| Heating up time | 1:34 h:min |
| Standby power input | 30.9 W |
| Reference hot water temperature | 47.6 °C |
| Mixed water at 40°C | 211 l |

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 135 % |
| COP | 3.27 |
| Heating up time | 1:34 h:min |
| Standby power input | 30.9 W |
| Reference hot water temperature | 47.6 °C |
| Mixed water at 40°C | 211 l |

Model: CS7800i LW 6 (+F)

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | CS7800i LW 6 (+F) |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 5.85 kW | 5.24 kW |
| El input | 1.35 kW | 1.91 kW |
| COP | 4.33 | 2.75 |

| 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 | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 200 % | 141 % |
| Prated | 5.85 kW | 5.24 kW |
| SCOP | 5.21 | 3.73 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 5.85 kW | 5.24 kW |
| COP Tj = +2°C | 4.33 | 2.75 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 3.98 kW | 3.63 kW |
| COP Tj = +7°C | 5.14 | 3.47 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 2.12 kW | 1.97 kW |
| COP Tj = 12°C | 5.90 | 4.46 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 5.85 kW | 5.24 kW |

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| | | |
|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 4.33 | 2.75 |
| P _{dh} $T_j = TOL$ or P _{dh} $T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.85 kW | 5.24 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 4.33 | 2.75 |
| C _{dh} $T_j = TOL$ or P _{dh} $T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.99 | 0.99 |
| WTOL | 62 °C | 62 °C |
| P _{off} | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Q _{he} | 1500 kWh | 1876 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 210 % | 151 % |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| Prated | 5.85 kW | 5.24 kW |
| SCOP | 5.44 | 3.99 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.62 kW | 3.29 kW |
| COP Tj = -7°C | 5.29 | 3.71 |
| Cdh Tj = -7 °C | 0.98 | 0.99 |
| Pdh Tj = +2°C | 2.34 kW | 1.94 kW |
| COP Tj = +2°C | 5.85 | 4.37 |
| Cdh Tj = +2 °C | 0.97 | 0.97 |
| Pdh Tj = +7°C | 2.13 kW | 1.98 kW |
| COP Tj = +7°C | 5.86 | 4.69 |
| Cdh Tj = +7 °C | 0.97 | 0.97 |
| Pdh Tj = 12°C | 2.11 kW | 2.00 kW |
| COP Tj = 12°C | 5.78 | 4.78 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 5.85 kW | 5.24 kW |
| COP Tj = Tbiv | 4.33 | 2.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.85 kW | 5.24 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.33 | 2.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Qhe | 2650 kWh | 3241 kWh |
| Cdh Tj = -15 °C | 0.99 | 0.99 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 202 % | 145 % |
| Prated | 5.85 kW | 5.24 kW |
| SCOP | 5.26 | 3.82 |
| Tbiv | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.13 kW | 4.58 kW |
| COP Tj = -7°C | 4.53 | 2.97 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 3.34 kW | 3.04 kW |
| COP Tj = +2°C | 5.39 | 3.87 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 2.12 kW | 1.97 kW |
| COP Tj = +7°C | 5.87 | 4.52 |
| Cdh Tj = +7 °C | 0.97 | 0.97 |
| Pdh Tj = 12°C | 2.12 kW | 1.97 kW |
| COP Tj = 12°C | 5.91 | 4.57 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 5.85 kW | 5.24 kW |
| COP Tj = Tbiv | 4.33 | 2.75 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.85 kW | 5.24 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.33 | 2.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Q _{he} | 2298 kWh | 2835 kWh |

Model: CS7800i LW 8 M (+MF)

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | CS7800i LW 8 M (+MF) |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | No |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.63 kW | 6.74 kW |
| El input | 1.87 kW | 2.57 kW |
| COP | 4.08 | 2.62 |

| 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 | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 202 % | 144 % |
| Prated | 7.62 kW | 6.74 kW |
| SCOP | 5.26 | 3.80 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.62 kW | 6.74 kW |
| COP Tj = +2°C | 4.08 | 2.62 |
| Cdh Tj = +2 °C | 0.99 | 1.00 |
| Pdh Tj = +7°C | 5.23 kW | 4.15 kW |
| COP Tj = +7°C | 5.07 | 3.58 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 2.67 kW | 2 kW |
| COP Tj = 12°C | 6.02 | 4.89 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 7.62 kW | 6.74 kW |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 4.08 | 2.62 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.62 kW | 6.74 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 4.08 | 2.62 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.99 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Q_{he} | 1935 kWh | 2369 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 214 % | 157 % |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| Prated | 7.62 kW | 6.74 kW |
| SCOP | 5.56 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.59 kW | 4.22 kW |
| COP Tj = -7°C | 5.35 | 3.77 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 3.01 kW | 2.51 kW |
| COP Tj = +2°C | 6.00 | 4.58 |
| Cdh Tj = +2 °C | 0.980 | 0.979 |
| Pdh Tj = +7°C | 2.14 kW | 2.02 kW |
| COP Tj = +7°C | 6.21 | 5.06 |
| Cdh Tj = +7 °C | 0.970 | 0.971 |
| Pdh Tj = 12°C | 2.11 kW | 2.02 kW |
| COP Tj = 12°C | 5.95 | 5.06 |
| Cdh Tj = +12 °C | 0.970 | 0.971 |
| Pdh Tj = Tbiv | 7.62 kW | 6.74 kW |
| COP Tj = Tbiv | 4.08 | 2.62 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.62 kW | 6.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.08 | 2.62 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.996 |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 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 | 3381 kWh | 4024 kWh |
| Cdh Tj = -15 °C | 0.99 | 1.00 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 203 % | 150 % |
| Prated | 7.63 kW | 6.74 kW |
| SCOP | 5.28 | 3.95 |
| Tbiv | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.06 kW | 5.86 kW |
| COP Tj = -7°C | 4.29 | 2.94 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.24 kW | 3.76 kW |
| COP Tj = +2°C | 5.37 | 4.01 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 2.67 kW | 2.53 kW |
| COP Tj = +7°C | 6 | 4.7 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.11 kW | 1.99 kW |
| COP Tj = 12°C | 6.12 | 4.86 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 7.63 kW | 6.74 kW |
| COP Tj = Tbiv | 4.08 | 2.62 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.63 kW | 6.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.08 | 2.62 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Q _{he} | 2984 kWh | 3530 kWh |

Domestic Hot Water (DHW)

Warmer Climate

| EN 16147 | |
|---------------------------------|------------|
| | |
| Declared load profile | XL |
| Efficiency η_{DHW} | 124 % |
| COP | 3.01 |
| Heating up time | 1:31 h:min |
| Standby power input | 35.0 W |
| Reference hot water temperature | 47.6 °C |
| Mixed water at 40°C | 211 l |

Colder Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 124 % |
| COP | 3.01 |
| Heating up time | 1:31 h:min |
| Standby power input | 35.0 W |
| Reference hot water temperature | 47.6 °C |
| Mixed water at 40°C | 211 l |

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 124 % |
| COP | 3.01 |
| Heating up time | 1:31 h:min |
| Standby power input | 35.0 W |
| Reference hot water temperature | 47.6 °C |
| Mixed water at 40°C | 211 l |

Model: CS7800i LW 8 (+F)

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | CS7800i LW 8 (+F) |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.63 kW | 6.74 kW |
| El input | 1.87 kW | 2.57 kW |
| COP | 4.08 | 2.62 |

| 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

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 202 % | 144 % |
| Prated | 7.62 kW | 6.74 kW |
| SCOP | 5.26 | 3.80 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.62 kW | 6.74 kW |
| COP Tj = +2°C | 4.08 | 2.62 |
| Cdh Tj = +2 °C | 0.99 | 1.00 |
| Pdh Tj = +7°C | 5.23 kW | 4.15 kW |
| COP Tj = +7°C | 5.07 | 3.58 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 2.67 kW | 2 kW |
| COP Tj = 12°C | 6.02 | 4.89 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 7.62 kW | 6.74 kW |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 4.08 | 2.62 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.62 kW | 6.74 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 4.08 | 2.62 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.99 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0 kW |
| Annual energy consumption Q_{he} | 1935 kWh | 2369 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 214 % | 157 % |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| Prated | 7.62 kW | 6.74 kW |
| SCOP | 5.56 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.59 kW | 4.22 kW |
| COP Tj = -7°C | 5.35 | 3.77 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 3.01 kW | 2.51 kW |
| COP Tj = +2°C | 6.00 | 4.58 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 2.14 kW | 2.02 kW |
| COP Tj = +7°C | 6.21 | 5.06 |
| Cdh Tj = +7 °C | 0.970 | 0.970 |
| Pdh Tj = 12°C | 2.11 kW | 2.02 kW |
| COP Tj = 12°C | 5.95 | 5.06 |
| Cdh Tj = +12 °C | 0.970 | 0.970 |
| Pdh Tj = Tbiv | 7.62 kW | 6.74 kW |
| COP Tj = Tbiv | 4.08 | 2.62 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.62 kW | 6.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.08 | 2.62 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 1.000 |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |
| PSB | 11 W | 11 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 | 3381 kWh | 4024 kWh |
| Cdh Tj = -15 °C | 0.99 | 1.00 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 36 dB(A) | 36 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 203 % | 150 % |
| Prated | 7.63 kW | 6.74 kW |
| SCOP | 5.28 | 3.95 |
| Tbiv | -10 °C | -10 °C |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|---|---------|---------|
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.06 kW | 5.86 kW |
| COP Tj = -7°C | 4.29 | 2.94 |
| Cdh Tj = -7 °C | 0.99 | 0.99 |
| Pdh Tj = +2°C | 4.24 kW | 3.76 kW |
| COP Tj = +2°C | 5.37 | 4.01 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 2.67 kW | 2.53 kW |
| COP Tj = +7°C | 6 | 4.7 |
| Cdh Tj = +7 °C | 0.97 | 0.98 |
| Pdh Tj = 12°C | 2.11 kW | 1.99 kW |
| COP Tj = 12°C | 6.12 | 4.86 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 7.63 kW | 6.74 kW |
| COP Tj = Tbiv | 4.08 | 2.62 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.63 kW | 6.74 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.08 | 2.62 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 1.00 |
| WTOL | 62 °C | 62 °C |
| Poff | 11 W | 11 W |
| PTO | 11 W | 11 W |

This information was generated by the HP KEYMARK database on 23 Jun 2022

| | | |
|--|-------------|-------------|
| PSB | 11 W | 11 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Q _{he} | 2984 kWh | 3530 kWh |