

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

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| | | | |
|---------------------|---|----------|------------|
| Summary of | Bosch Compress 7800i LW 12 | Reg. No. | 011-1W0432 |
| 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 12 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 2 kg | | |
| Certification Date | 08.12.2020 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. 7 | | |

Model: CS7800iLW 12 M (+MF)

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | CS7800iLW 12 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 | 12.53 kW | 11.31 kW |
| El input | 3.11 kW | 4.30 kW |
| COP | 4.02 | 2.63 |

| 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

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EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 41 dB(A) | 41 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 214 % | 159 % |
| Prated | 12.53 kW | 11.31 kW |
| SCOP | 5.55 | 4.17 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.11 kW | 10.14 kW |
| COP Tj = -7°C | 4.36 | 2.91 |
| Pdh Tj = +2°C | 7.10 kW | 6.21 kW |
| COP Tj = +2°C | 5.67 | 4.28 |
| Pdh Tj = +7°C | 4.60 kW | 3.71 kW |
| COP Tj = +7°C | 6.35 | 4.97 |
| Pdh Tj = 12°C | 3.92 kW | 3.72 kW |
| COP Tj = 12°C | 6.37 | 5.20 |
| Pdh Tj = Tbiv | 12.53 kW | 11.31 kW |
| COP Tj = Tbiv | 4.02 | 2.63 |

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| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 12.53 kW | 11.31 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 4.02 | 2.63 |
| WTOL | 71 °C | 71 °C |
| Poff | 14 W | 14 W |
| PTO | 14 W | 14 W |
| PSB | 14 W | 14 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Qhe | 4660 kWh | 5606 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 226 % | 168 % |
| Prated | 12.53 kW | 11.31 kW |
| SCOP | 5.85 | 4.39 |

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| | | |
|---|-------------|-------------|
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.98 kW | 7.02 kW |
| COP Tj = -7°C | 5.50 | 3.98 |
| Pdh Tj = +2°C | 4.53 kW | 4.30 kW |
| COP Tj = +2°C | 6.46 | 4.95 |
| Pdh Tj = +7°C | 3.89 kW | 3.72 kW |
| COP Tj = +7°C | 6.56 | 5.28 |
| Pdh Tj = 12°C | 3.87 kW | 3.73 kW |
| COP Tj = 12°C | 6.17 | 5.40 |
| Pdh Tj = Tbiv | 12.53 kW | 11.31 kW |
| COP Tj = Tbiv | 4.02 | 2.63 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.53 kW | 11.31 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.02 | 2.63 |
| WTOL | 71 °C | 71 °C |
| Poff | 14 W | 14 W |
| PTO | 14 W | 14 W |
| PSB | 14 W | 14 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |

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| | | |
|------------------------------------|----------|----------|
| Annual energy consumption Q_{he} | 5276 kWh | 6350 kWh |
|------------------------------------|----------|----------|

Warmer Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 214 % | 159 % |
| Prated | 12.53 kW | 11.31 kW |
| SCOP | 5.55 | 4.18 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 12.53 kW | 11.31 kW |
| COP Tj = +2°C | 4.02 | 2.63 |
| Pdh Tj = +7°C | 7.88 kW | 7.26 kW |
| COP Tj = +7°C | 5.27 | 3.73 |
| Pdh Tj = 12°C | 3.86 kW | 3.71 kW |
| COP Tj = 12°C | 6.38 | 5.17 |
| Pdh Tj = Tbiv | 12.53 kW | 11.31 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 4.02 | 2.63 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.53 kW | 11.31 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.02 | 2.63 |
| WTOL | 71 °C | 71 °C |
| Poff | 14 W | 14 W |
| PTO | 14 W | 14 W |
| PSB | 14 W | 14 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0 kW | 0 kW |
| Annual energy consumption Qhe | 3016 kWh | 3618 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 129 % |
| COP | 3.11 |
| Heating up time | 01:28 h:min |
| Standby power input | 41.2 W |
| Reference hot water temperature | 47.3 °C |
| Mixed water at 40°C | 208 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 129 % |
| COP | 3.11 |
| Heating up time | 01:28 h:min |
| Standby power input | 41.2 W |
| Reference hot water temperature | 47.3 °C |
| Mixed water at 40°C | 208 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 129 % |
| COP | 3.11 |
| Heating up time | 01:28 h:min |
| Standby power input | 41.2 W |
| Reference hot water temperature | 47.3 °C |
| Mixed water at 40°C | 208 l |

Model: CS7800iLW 12 (+F)

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | CS7800iLW 12 (+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 | 12.53 kW | 11.31 kW |
| El input | 3.11 kW | 4.30 kW |
| COP | 4.02 | 2.63 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
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EN 12102-1

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EN 14825

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| Prated | 12.53 kW | 11.31 kW |
| SCOP | 5.55 | 4.17 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.11 kW | 10.14 kW |
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| WTOL | 71 °C | 71 °C |
| Poff | 14 W | 14 W |
| PTO | 14 W | 14 W |
| PSB | 14 W | 14 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} | 4660 kWh | 5606 kWh |

Colder Climate

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| Supplementary Heater: PSUP | 0 kW | 0 kW |
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