

| Summary of | Bosch Compress 7800i LW 16 | Reg. No. | 011-1W0433 | |
|----------------------------|---|---------------------------------|------------|--|
| Certificate Holder | | | | |
| Name | Bosch Thermotechnik GmbH | Bosch Thermotechnik GmbH | | |
| Address | Junkersstraße 20 - 24 | Junkersstraße 20 - 24 Zip 73249 | | |
| City | Wernau | Country | Germany | |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | | |
| Name of testing laboratory | RISE Research Institutes of Sweden AB | | | |
| Subtype title | Bosch Compress 7800i LW 16 | | | |
| Heat Pump Type | Eau glycolée/Eau | | | |
| Refrigerant | R410a | | | |
| Mass Of Refrigerant | 2.3 kg | | | |
| Certification Date | 08.12.2020 | 08.12.2020 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. 7 | | | |



Model: CS7800iLW 16 M (+MF)

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

Heating

| EN 14511-2 | | |
|-------------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Puissance thermique | 15.53 kW | 14.19 kW |
| Puissance électrique absorbée | 4.12 kW | 5.66 kW |
| СОР | 3.77 | 2.51 |
| Débit d'eau intérieur | 2.63 m³/h | 1.53 m³/h |

| EN 14511-4 | |
|---|--------|
| | |
| Coupure des débits des fluides caloporteurs | passed |
| Coupure complète de l'alimentation électrique | passed |
| Dégivrage | passed |
| Starting and operating test | passed |

Average Climate



| EN 12102-1 | | |
|---------------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Puissance acoustique intérieure | 41 dB(A) | 41 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 205 % | 156 % |
| Prated | 15.53 kW | 14.19 kW |
| SCOP | 5.33 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.90 kW | 12.81 kW |
| COP Tj = -7°C | 4.08 | 2.82 |
| Pdh Tj = +2°C | 8.92 kW | 7.91 kW |
| COP Tj = +2°C | 5.43 | 4.23 |
| Pdh Tj = +7°C | 5.71 kW | 5.39 kW |
| COP Tj = +7°C | 6.09 | 4.79 |
| Pdh Tj = 12°C | 4.88 kW | 4.69 kW |
| COP Tj = 12°C | 6.07 | 5.07 |
| Pdh Tj = Tbiv | 15.53 kW | 14.19 kW |
| COP Tj = Tbiv | 3.77 | 2.51 |





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|---|---------------------------------------|----------|
| Pdh Tj = TOL | 15.53 kW | 14.19 kW |
| COP Tj = TOL | 3.77 | 2.51 |
| WTOL | 71 °C | 71 °C |
| Poff | 10 W | 10 W |
| РТО | 10 W | 10 W |
| PSB | 10 W | 10 W |
| PCK | o w | 0 W |
| Chauffage d'appoint: type d'énergie utilisée | Electric | Electric |
| Chauffage d'appoint: P _{SUP} | 0 kW | 0 kW |
| Consommation annuelle d'électricité Q _{HE} | 6018 kWh | 7154 kWh |
| | | |

Colder Climate

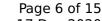
| EN 12102-1 | | |
|---------------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Puissance acoustique intérieure | 41 dB(A) | 41 dB(A) |

| EN 14825 | | |
|------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 214 % | 163 % |
| Prated | 15.53 kW | 14.19 kW |
| SCOP | 5.55 | 4.28 |





| This information was | generated by the fir KLTN | TANK database off 17 Dec 2020 |
|--|---------------------------|-------------------------------|
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 10.06 kW | 8.96 kW |
| COP Tj = -7°C | 5.22 | 3.88 |
| Pdh Tj = +2°C | 6.20 kW | 5.41 kW |
| COP Tj = +2°C | 6.08 | 4.80 |
| Pdh Tj = +7°C | 4.91 kW | 4.75 kW |
| $COP Tj = +7^{\circ}C$ | 6.16 | 5.15 |
| Pdh Tj = 12°C | 4.88 kW | 4.74 kW |
| COP Tj = 12°C | 5.96 | 5.25 |
| Pdh Tj = Tbiv | 15.53 kW | 14.19 kW |
| COP Tj = Tbiv | 3.77 | 2.51 |
| Pdh Tj = TOL | 15.53 kW | 14.19 kW |
| COP Tj = TOL | 3.77 | 2.51 |
| WTOL | 71 °C | 71 °C |
| Poff | 10 W | 10 W |
| РТО | 10 W | 10 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Chauffage d'appoint: type d'énergie utilisée | Electric | Electric |
| Chauffage d'appoint: P _{SUP} | 0 kW | 0 kW |
| | I | 1 |





| Consommation annuelle d'électricité Q _{HE} | 6898 kWh | 8176 kWh | |
|---|----------|----------|--|
|---|----------|----------|--|

Warmer Climate

| EN 12102-1 | | |
|---------------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Puissance acoustique intérieure | 41 dB(A) | 41 dB(A) |

| EN 14825 | | |
|---------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 207 % | 157 % |
| Prated | 15.53 kW | 14.19 kW |
| SCOP | 5.38 | 4.11 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 15.53 kW | 14.19 kW |
| COP Tj = +2°C | 3.77 | 2.51 |
| Pdh Tj = +7°C | 9.98 kW | 9.31 kW |
| COP Tj = +7°C | 5.10 | 3.65 |
| Pdh Tj = 12°C | 4.89 kW | 4.71 kW |
| COP Tj = 12°C | 6.10 | 5.04 |
| Pdh Tj = Tbiv | 15.53 kW | 14.19 kW |





| COP Tj = Tbiv | 3.77 | 2.51 |
|---|----------|----------|
| Pdh Tj = TOL | 15.53 kW | 14.19 kW |
| COP Tj = TOL | 3.77 | 2.51 |
| WTOL | 71 °C | 71 °C |
| Poff | 10 W | 10 W |
| РТО | 10 W | 10 W |
| PSB | 10 W | 10 W |
| PCK | 0 W | 0 W |
| Chauffage d'appoint: type d'énergie utilisée | Electric | Electric |
| Chauffage d'appoint: P _{SUP} | 0 kW | 0 kW |
| Consommation annuelle d'électricité Q _{HE} | 3856 kWh | 4609 kWh |

Domestic Hot Water (DHW)

Average Climate



| EN 16147 | | |
|---------------------------------------|-------------|--|
| Profil de soutirage déclaré | XL | |
| Efficacité pour le chauffage de l'eau | 127 % | |
| СОР | 3.05 | |
| Durée de montée en température | 01:09 h:min | |
| Pertes statiques | 43.0 W | |
| Température d'eau chaude de référence | 46.9 °C | |
| Volume d'eau à 40°C | 206 I | |

Colder Climate

| EN 16147 | | |
|---------------------------------------|-------------|--|
| Profil de soutirage déclaré | XL | |
| Efficacité pour le chauffage de l'eau | 127 % | |
| СОР | 3.05 | |
| Durée de montée en température | 01:09 h:min | |
| Pertes statiques | 43.0 W | |
| Température d'eau chaude de référence | 46.9 °C | |
| Volume d'eau à 40°C | 206 I | |

Warmer Climate



| EN 16147 | | |
|---------------------------------------|-------------|--|
| Profil de soutirage déclaré | XL | |
| Efficacité pour le chauffage de l'eau | 127 % | |
| СОР | 3.05 | |
| Durée de montée en température | 01:09 h:min | |
| Pertes statiques | 43.0 W | |
| Température d'eau chaude de référence | 46.9 °C | |
| Volume d'eau à 40°C | 206 | |



Model: CS7800iLW 16 (+F)

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

Heating

| EN 14511-2 | | |
|-------------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
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| Puissance électrique absorbée | 4.12 kW | 5.66 kW |
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| Débit d'eau intérieur | 2.63 m³/h | 1.53 m³/h |

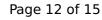
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| Coupure complète de l'alimentation électrique | passed | |
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| | Low temperature Medium temperature | | |
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|---------------|-----------------|--------------------|
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| η_{s} | 205 % | 156 % |
| Prated | 15.53 kW | 14.19 kW |
| SCOP | 5.33 | 4.10 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 13.90 kW | 12.81 kW |
| COP Tj = -7°C | 4.08 | 2.82 |
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| COP Tj = +2°C | 5.43 | 4.23 |
| Pdh Tj = +7°C | 5.71 kW | 5.39 kW |
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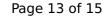


| Pdh Tj = TOL | 15.53 kW | 14.19 kW |
|---|----------|----------|
| COP Tj = TOL | 3.77 | 2.51 |
| WTOL | 71 °C | 71 °C |
| Poff | 10 W | 10 W |
| РТО | 10 W | 10 W |
| PSB | 10 W | 10 W |
| PCK | o w | 0 W |
| Chauffage d'appoint: type d'énergie utilisée | Electric | Electric |
| Chauffage d'appoint: P _{SUP} | 0 kW | 0 kW |
| Consommation annuelle d'électricité Q _{HE} | 6018 kWh | 7154 kWh |

Colder Climate

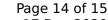
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| °C 06 kW 2 0 kW 3 1 kW 5 3 kW | -22 °C -22 °C 8.96 kW 3.88 5.41 kW 4.80 4.75 kW 5.15 4.74 kW 5.25 14.19 kW |
|--------------------------------------|--|
| 06 kW 2 0 kW 3 1 kW 5 3 kW | 8.96 kW 3.88 5.41 kW 4.80 4.75 kW 5.15 4.74 kW 5.25 14.19 kW |
| 2 0 kW 3 1 kW 5 3 kW | 3.88 5.41 kW 4.80 4.75 kW 5.15 4.74 kW 5.25 14.19 kW |
| 0 kW 3 1 kW 5 3 kW 5 | 5.41 kW 4.80 4.75 kW 5.15 4.74 kW 5.25 14.19 kW |
| 3 L kW 5 S KW 5 S KW | 4.80 4.75 kW 5.15 4.74 kW 5.25 14.19 kW |
| 1 kW 5 3 kW 5 53 kW | 4.75 kW 5.15 4.74 kW 5.25 14.19 kW |
| 5 3 kW 5 53 kW | 5.15 4.74 kW 5.25 14.19 kW |
| 3 kW 5 53 kW | 4.74 kW 5.25 14.19 kW |
| 5 53 kW | 5.25 14.19 kW |
| 53 kW | 14.19 kW |
| | |
| 7 | 2 51 |
| | 2.31 |
| 53 kW | 14.19 kW |
| 7 | 2.51 |
| °C | 71 °C |
| N | 10 W |
| N | 10 W |
| N | 10 W |
| , | 0 W |
| | Electric |
| tric | |
| | W W |





|--|

Warmer Climate

| EN 12102-1 | | |
|---------------------------------|-----------------|--------------------|
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| Tbiv | 2 °C | 2 °C | |
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| Pdh Tj = +7°C | 9.98 kW | 9.31 kW | |
| COP Tj = +7°C | 5.10 | 3.65 | |
| Pdh Tj = 12°C | 4.89 kW | 4.71 kW | |
| COP Tj = 12°C | 6.10 | 5.04 | |
| Pdh Tj = Tbiv | 15.53 kW | 14.19 kW | |



$$\operatorname{\textit{Page}}\ 15$$ of 15 This information was generated by the HP KEYMARK database on 17 Dec 2020

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|---|----------|----------|
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| Chauffage d'appoint: type d'énergie utilisée | Electric | Electric |
| Chauffage d'appoint: P _{SUP} | 0 kW | 0 kW |
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