

Page 1 of 31

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Login

| Summary of | Bosch Compress 3000 AWS-8 | Reg. No. | 011-1W0135 |
|---------------------|---|----------|------------|
| 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 3000 AWS-8 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.6 kg | | |
| Certification Date | 18.07.2017 | | |

Model: Bosch Compress 3000 AWS-8 E

| Configure model | | |
|--|-----------------------|--|
| Model name Bosch Compress 3000 AWS-8 E | | |
| Application | Heating (medium temp) | |
| Units Indoor + Outdoor | | |
| Climate Zone Colder Climate + Warmer Climate | | |
| Reversibility Yes | | |
| Cooling mode application (optional) n/a | | |

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

Heating

| EN 14511-2 | | | |
|-------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Heat output | 3.23 kW | 7.96 kW | |
| El input | 0.72 kW | 3.60 kW | |
| СОР | 4.50 | 2.21 | |

| 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 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| Low temperature 225 % | Medium temperature |
|-----------------------|---|
| 225 % | 160 % |
| | |
| 7.20 kW | 6.10 kW |
| 5.70 | 4.07 |
| 2 °C | 2 °C |
| 2 °C | 2 °C |
| 7.28 kW | 6.08 kW |
| 3.33 | 1.94 |
| 0.994 | 0.996 |
| 4.72 kW | 4.00 kW |
| 5.44 | 3.63 |
| 0.985 | 0.988 |
| 4.01 kW | 3.91 kW |
| 6.75 | 5.28 |
| 0.979 | 0.983 |
| | 5.70 2 °C 2 °C 7.28 kW 3.33 0.994 4.72 kW 5.44 0.985 4.01 kW 6.75 |

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Pdh Tj = Tbiv7.28 kW 6.08 kW COP Tj = Tbiv 3.33 1.94 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.28 kW 6.08 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.33 1.94 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.994 0.996 WTOL 57 °C 57 °C 13 W Poff 13 W PTO 13 W 13 W **PSB** 13 W 13 W **PCK** 17 W 17 W

Electricity

0.00 kW

1686 kWh

Electricity

0.00 kW

2003 kWh

Colder Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

Supplementary Heater: Type of energy input

| EN 12102-1 | | | | |
|---------------------------|-----------------|--------------------|--|--|
| | Low temperature | Medium temperature | | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | | |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) | | |





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7 °C | 3.86 kW | 4.41 kW |
| COP Tj = -7°C | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = $+2$ °C | 3.16 kW | 2.99 kW |
| $COP Tj = +2^{\circ}C$ | 5.06 | 3.90 |
| Cdh $Tj = +2$ °C | 0.979 | 0.983 |
| Pdh Tj = $+7^{\circ}$ C | 3.68 kW | 3.52 kW |
| $COPTj = +7^{\circ}C$ | 5.84 | 4.81 |
| Cdh $Tj = +7$ °C | 0.980 | 0.982 |
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |

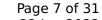




| 2.15 | 1.73 |
|-------------|---|
| 0.995 | 0.996 |
| 57 °C | 57 °C |
| 13 W | 13 W |
| 13 W | 13 W |
| 13 W | 13 W |
| 17 W | 17 W |
| Electricity | Electricity |
| 6.60 kW | 6.60 kW |
| 4124 kWh | 5285 kWh |
| 5.45 | 5.32 |
| 2.65 | 1.90 |
| 0.994 | 0.995 |
| | 0.995 57 °C 13 W 13 W 17 W Electricity 6.60 kW 4124 kWh 5.45 2.65 |

Average Climate

| EN 12102-1 | | | |
|------------------------------------|----------|----------|--|
| Low temperature Medium temperature | | | |
| Sound power level indoor | 41 dB(A) | 41 dB(A) | |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) | |





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| $COP Tj = +7^{\circ}C$ | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |
| | | |



| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 5.20 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |

Model: Bosch Compress 3000 AWS-8 B

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | Bosch Compress 3000 AWS-8 B | |
| Application | Heating (medium temp) | |
| Units | Indoor + 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 | 3.23 kW | 7.96 kW |
| El input | 0.72 kW | 3.60 kW |
| СОР | 4.50 | 2.21 |

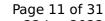
| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.28 kW | 6.08 kW |
| $COP Tj = +2^{\circ}C$ | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | 0.996 |
| Pdh Tj = $+7^{\circ}$ C | 4.72 kW | 4.00 kW |
| $COP Tj = +7^{\circ}C$ | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

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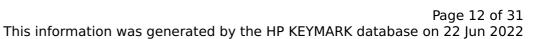




| Pdh Tj = Tbiv | 7.28 kW | 6.08 kW |
|---|----------|----------|
| COP Tj = Tbiv | 3.33 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.28 kW | 6.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.33 | 1.94 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | n/a | |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1686 kWh | 2003 kWh |

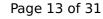
Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7°C | 3.86 kW | 4.41 kW |
| $COP Tj = -7^{\circ}C$ | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = $+2$ °C | 3.16 kW | 2.99 kW |
| COP Tj = +2°C | 5.06 | 3.90 |
| Cdh Tj = +2 °C | 0.979 | 0.983 |
| Pdh Tj = +7°C | 3.68 kW | 3.52 kW |
| COP Tj = +7°C | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |

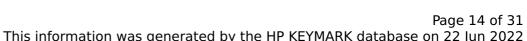




| 2.15 | 1.73 |
|----------|--|
| 0.995 | 0.996 |
| 57 °C | 57 °C |
| 13 W | 13 W |
| 13 W | 13 W |
| 13 W | 13 W |
| 17 W | 17 W |
| n/a | |
| 0.00 kW | 0.00 kW |
| 4124 kWh | 5285 kWh |
| 5.45 | 5.32 |
| 2.65 | 1.90 |
| 0.994 | 0.995 |
| | 0.995 57 °C 13 W 13 W 13 W 17 W n/a 0.00 kW 4124 kWh 5.45 2.65 |

Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |



| | Low temperature Medium tempera | |
|---|----------------------------------|---------|
| η_{s} | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| ГЬіν | -10 °C | -9 °C |
| ГОL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| COP Tj = +7°C | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |

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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
|---|----------|----------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | n/a | |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |



Model: Bosch Compress 3000 AWS-8 M

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | Bosch Compress 3000 AWS-8 M | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | Colder Climate + Warmer Climate | |
| Reversibility | Yes | |
| Cooling mode application (optional) | n/a | |

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

Heating

| EN 14511-2 | | | |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature | | | |
| Heat output | 3.23 kW | 7.96 kW | |
| El input | 0.72 kW | 3.60 kW | |
| СОР | 4.50 | 2.21 | |

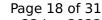
| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 7.28 kW | 6.08 kW |
| $COP Tj = +2^{\circ}C$ | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | 0.996 |
| Pdh Tj = $+7^{\circ}$ C | 4.72 kW | 4.00 kW |
| $COP Tj = +7^{\circ}C$ | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

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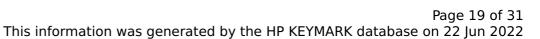




| Pdh Tj = Tbiv | 7.28 kW | 6.08 kW |
|---|-------------|-------------|
| COP Tj = Tbiv | 3.33 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.28 kW | 6.08 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.33 | 1.94 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1686 kWh | 2003 kWh |

Colder Climate

| EN 12102-1 | | | | |
|------------------------------------|----------|----------|--|--|
| Low temperature Medium temperature | | | | |
| Sound power level indoor | 38 dB(A) | 38 dB(A) | | |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) | | |





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7° C | 3.86 kW | 4.41 kW |
| $COPTj = -7^{\circ}C$ | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = $+2$ °C | 3.16 kW | 2.99 kW |
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| Cdh Tj = +2 °C | 0.979 | 0.996 |
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| $COP Tj = +7^{\circ}C$ | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |

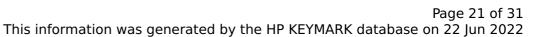




| | | <u> </u> |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.15 | 1.73 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.60 kW | 6.60 kW |
| Annual energy consumption Qhe | 4124 kWh | 5285 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.45 | 1.90 |
| COP Tj = -15°C (if TOL $<$ -20°C) | 2.65 | 1.90 |
| Cdh Tj = -15 °C | 0.994 | 0.995 |
| | | |

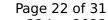
Average Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{S} | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7 °C | 6.63 kW | 4.55 kW |
| COP Tj = -7° C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = $+2$ °C | 4.00 kW | 3.94 kW |
| $COPTj = +2^{\circ}C$ | 4.75 | 3.41 |
| Cdh Tj = $+2$ °C | 0.985 | 0.989 |
| Pdh Tj = $+7$ °C | 3.66 kW | 3.46 kW |
| $COPTj = +7^{\circ}C$ | 5.96 | 4.41 |
| Cdh Tj = $+7$ °C | 0.979 | 0.984 |
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |





| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| PTO | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 5.20 kW |
| Annual energy consumption Qhe | 3236 kWh | 3206 kWh |

Domestic Hot Water (DHW)

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | L |
| Efficiency ηDHW | 114 % |
| СОР | 2.66 |
| Heating up time | 01:48 h:min |
| Standby power input | 54.0 W |
| Reference hot water temperature | 52.4 °C |
| Mixed water at 40°C | 257 I |



Colder Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 77 % | |
| СОР | 1.73 | |
| Heating up time | 02:49 h:min | |
| Standby power input | 118.0 W | |
| Reference hot water temperature | 52.5 °C | |
| Mixed water at 40°C | 257 I | |

Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 99 % | |
| СОР | 2.30 | |
| Heating up time | 02:07 h:min | |
| Standby power input | 65.0 W | |
| Reference hot water temperature | 52.3 °C | |
| Mixed water at 40°C | 257 I | |



Model: Bosch Compress 3000 AWS-8 MS

| Configure model | | |
|-------------------------------------|---------------------------------|--|
| Model name | Bosch Compress 3000 AWS-8 MS | |
| Application | Heating + DHW + low temp | |
| Units | Indoor + Outdoor | |
| Climate Zone | Colder Climate + Warmer Climate | |
| Reversibility | Yes | |
| Cooling mode application (optional) | n/a | |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 3.23 kW | 7.96 kW |
| El input | 0.72 kW | 3.60 kW |
| СОР | 4.50 | 2.21 |

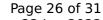
| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |

| EN 14825 | | |
|-------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 225 % | 160 % |
| Prated | 7.20 kW | 6.10 kW |
| SCOP | 5.70 | 4.07 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = $+2$ °C | 7.28 kW | 6.08 kW |
| $COP Tj = +2^{\circ}C$ | 3.33 | 1.94 |
| Cdh Tj = +2 °C | 0.994 | 0.996 |
| Pdh Tj = $+7^{\circ}$ C | 4.72 kW | 4.00 kW |
| $COPTj = +7^{\circ}C$ | 5.44 | 3.63 |
| Cdh Tj = +7 °C | 0.985 | 0.988 |
| Pdh Tj = 12°C | 4.01 kW | 3.91 kW |
| COP Tj = 12°C | 6.75 | 5.28 |
| Cdh Tj = +12 °C | 0.979 | 0.983 |

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

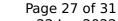




| · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
|---------------------------------------|--|
| 7.28 kW | 6.08 kW |
| 3.33 | 1.94 |
| 7.28 kW | 6.08 kW |
| 3.33 | 1.94 |
| 0.994 | 0.996 |
| 57 °C | 57 °C |
| 13 W | 13 W |
| 13 W | 13 W |
| 13 W | 13 W |
| 17 W | 17 W |
| Electricity | Electricity |
| 0.00 kW | 0.00 kW |
| 1686 kWh | 2003 kWh |
| | 3.33 7.28 kW 3.33 0.994 57 °C 13 W 13 W 17 W Electricity 0.00 kW |

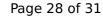
Colder Climate

| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 38 dB(A) | 38 dB(A) |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |





| J. Committee of the com | Low temperature | Medium temperature |
|--|-----------------|--------------------|
| η_{S} | 155 % | 120 % |
| Prated | 6.60 kW | 6.60 kW |
| SCOP | 3.94 | 3.08 |
| Tbiv | -18 °C | -17 °C |
| TOL | -18 °C | -17 °C |
| Pdh Tj = -7° C | 3.86 kW | 4.41 kW |
| $COP Tj = -7^{\circ}C$ | 3.22 | 2.52 |
| Cdh Tj = -7 °C | 0.989 | 0.993 |
| Pdh Tj = $+2$ °C | 3.16 kW | 2.99 kW |
| $COPTj = +2^{\circ}C$ | 5.06 | 3.90 |
| Cdh Tj = +2 °C | 0.979 | 0.983 |
| Pdh Tj = $+7^{\circ}$ C | 3.68 kW | 3.52 kW |
| $COPTj = +7^{\circ}C$ | 5.84 | 4.81 |
| Cdh Tj = +7 °C | 0.980 | 0.982 |
| Pdh Tj = 12°C | 4.14 kW | 4.13 kW |
| COP Tj = 12°C | 7.09 | 6.02 |
| Cdh Tj = +12 °C | 0.978 | 0.981 |
| Pdh Tj = Tbiv | 5.93 kW | 5.72 kW |
| COP Tj = Tbiv | 2.15 | 1.73 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.93 kW | 5.72 kW |

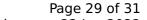




| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.15 | 1.73 |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.995 | 0.996 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 6.60 kW | 6.60 kW |
| Annual energy consumption Qhe | 4124 kWh | 5285 kWh |
| Pdh Tj = -15°C (if TOL<-20°C) | 5.45 | 5.32 |
| COP Tj = -15°C (if TOL $<$ -20°C) | 2.65 | 1.90 |
| Cdh Tj = -15 °C | 0.994 | 0.995 |

Average Climate

| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 38 dB(A) | 38 dB(A) | |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) | |





| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_{s} | 187 % | 131 % |
| Prated | 7.43 kW | 5.20 kW |
| SCOP | 4.74 | 3.35 |
| Tbiv | -10 °C | -9 °C |
| TOL | -10 °C | -9 °C |
| Pdh Tj = -7°C | 6.63 kW | 4.55 kW |
| COP Tj = -7°C | 3.08 | 2.00 |
| Cdh Tj = -7 °C | 0.994 | 0.994 |
| Pdh Tj = +2°C | 4.00 kW | 3.94 kW |
| COP Tj = +2°C | 4.75 | 3.41 |
| Cdh Tj = +2 °C | 0.985 | 0.989 |
| Pdh Tj = +7°C | 3.66 kW | 3.46 kW |
| $COP Tj = +7^{\circ}C$ | 5.96 | 4.41 |
| Cdh Tj = +7 °C | 0.979 | 0.984 |
| Pdh Tj = 12°C | 3.99 kW | 4.14 kW |
| COP Tj = 12°C | 6.82 | 5.84 |
| Cdh Tj = +12 °C | 0.978 | 0.982 |
| Pdh Tj = Tbiv | 7.44 kW | 5.02 kW |
| COP Tj = Tbiv | 2.51 | 1.33 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.44 kW | 5.02 kW |
| | | |





| | | , |
|---|--------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.51 | 1.33 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.996 | 0.997 |
| WTOL | 57 °C | 57 °C |
| Poff | 13 W | 13 W |
| РТО | 13 W | 13 W |
| PSB | 13 W | 13 W |
| PCK | 17 W | 17 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 5.20 kW |
| | | |

3236 kWh

3206 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 101 % | |
| СОР | 2.34 | |
| Heating up time | 01:46 h:min | |
| Standby power input | 66.7 W | |
| Reference hot water temperature | 51.3 °C | |
| Mixed water at 40°C | 252 l | |



Colder Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 75 % | |
| СОР | 1.69 | |
| Heating up time | 02:00 h:min | |
| Standby power input | 120.4 W | |
| Reference hot water temperature | 50.9 °C | |
| Mixed water at 40°C | 252 I | |

Average Climate

| EN 16147 | | |
|---------------------------------|-------------|--|
| | | |
| Declared load profile | L | |
| Efficiency ηDHW | 91 % | |
| СОР | 2.11 | |
| Heating up time | 02:04 h:min | |
| Standby power input | 69.7 W | |
| Reference hot water temperature | 51.3 °C | |
| Mixed water at 40°C | 236 | |