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| | | | |
|---------------------|---|----------|------------|
| Summary of | DAIKIN ALTHERMA 3 H HT ECH2O 14-18kW (500L) | Reg. No. | 011-1W0525 |
| Certificate Holder | | | |
| Name | DAIKIN Europe N.V. | | |
| Address | Zandvoordestraat 300 | Zip | B-8400 |
| City | Oostende | Country | Belgium |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Subtype title | DAIKIN ALTHERMA 3 H HT ECH2O 14-18kW (500L) | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 4.2 kg | | |
| Certification Date | 24.03.2022 | | |
| Testing basis | HP KEYMARK certification scheme rules rev. 9 | | |

Model: EPRA14DV3 / ETSH16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DV3 / ETSH16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| 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 | 5.69 kW | 7.24 kW |
| El input | 1.22 kW | 2.41 kW |
| COP | 4.67 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.51 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5726 kWh | 7211 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

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| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.99 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1038 kWh |

Domestic Hot Water (DHW)

Average Climate

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| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DW1 / ETSH16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DW1 / ETSH16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 5.90 kW | 7.24 kW |
| El input | 1.23 kW | 2.47 kW |
| COP | 4.79 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 186 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.71 | 3.57 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5479 kWh | 7236 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

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| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.87 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1069 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DV3 / ETSHB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DV3 / ETSHB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| 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 | 5.69 kW | 7.24 kW |
| El input | 1.22 kW | 2.41 kW |
| COP | 4.67 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.51 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

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|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5726 kWh | 7211 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

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| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.99 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1038 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DW1 / ETSHB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DW1 / ETSHB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 5.90 kW | 7.24 kW |
| El input | 1.23 kW | 2.47 kW |
| COP | 4.79 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 186 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.71 | 3.57 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5479 kWh | 7236 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

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| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.87 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1069 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DV3 / ETSX16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DV3 / ETSX16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| 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 | 5.69 kW | 7.24 kW |
| El input | 1.22 kW | 2.41 kW |
| COP | 4.67 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.57 | 3.62 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

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| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5649 kWh | 7134 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

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| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.99 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1038 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DW1 / ETSX16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DW1 / ETSX16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 5.90 kW | 7.24 kW |
| El input | 1.23 kW | 2.47 kW |
| COP | 4.79 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.81 | 3.63 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5366 kWh | 7122 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.87 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1069 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DV3 / ETSXB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DV3 / ETSXB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| 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 | 5.69 kW | 7.24 kW |
| El input | 1.22 kW | 2.41 kW |
| COP | 4.67 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.57 | 3.62 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5649 kWh | 7134 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.99 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1038 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA14DW1 / ETSXB16P50E

Configure model

| | |
|-------------------------------------|--------------------------|
| Model name | EPRA14DW1 / ETSXB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

General Data

| | |
|--------------|-------------|
| Power supply | 3x400V 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 | 5.90 kW | 7.24 kW |
| El input | 1.23 kW | 2.47 kW |
| COP | 4.79 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.81 | 3.63 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5366 kWh | 7122 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.56 kW |
| Cooling capacity | 6.90 |
| EER | 2.7 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 6.9 kW |
| SEER | 3.87 |
| P _{dc} T _j = 35°C | 6.90 kW |
| EER T _j = 35°C | 2.70 |
| P _{dc} T _j = 30°C | 5.23 kW |
| EER T _j = 30°C | 3.65 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.05 kW |
| EER T _j = 25°C | 4.58 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 4.94 kW |
| EER T _j = 20°C | 5.41 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1069 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DV3 / ETSH16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DV3 / ETSH16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.51 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5726 kWh | 7211 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 4.08 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1158 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DW1 / ETSH16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DW1 / ETSH16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 186 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.71 | 3.57 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5479 kWh | 7236 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 3.98 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1188 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DV3 / ETSHB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DV3 / ETSHB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.51 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5726 kWh | 7211 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 4.08 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1158 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DW1 / ETSHB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DW1 / ETSHB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 186 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.71 | 3.57 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5479 kWh | 7236 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 3.98 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1188 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DV3 / ETSX16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DV3 / ETSX16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.57 | 3.62 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5649 kWh | 7134 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 4.08 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1158 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DW1 / ETSX16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DW1 / ETSX16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.81 | 3.63 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5366 kWh | 7122 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 3.98 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1188 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DV3 / ETSXB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DV3 / ETSXB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.57 | 3.62 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5649 kWh | 7134 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 4.08 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1158 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA16DW1 / ETSXB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA16DW1 / ETSXB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.81 | 3.63 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5366 kWh | 7122 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 2.93 kW |
| Cooling capacity | 7.88 |
| EER | 2.69 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 7.9 kW |
| SEER | 3.98 |
| P _{dc} T _j = 35°C | 7.88 kW |
| EER T _j = 35°C | 2.69 |
| P _{dc} T _j = 30°C | 5.92 kW |
| EER T _j = 30°C | 3.69 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.09 kW |
| EER T _j = 25°C | 4.63 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.13 kW |
| EER T _j = 20°C | 5.61 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1188 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DV3 / ETSH16P50E

Configure model

| | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DV3 / ETSH16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.51 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5726 kWh | 7211 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.17 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1266 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DW1 / ETSH16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DW1 / ETSH16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 186 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.71 | 3.57 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5479 kWh | 7236 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.07 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1296 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DV3 / ETSHB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DV3 / ETSHB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 177 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.51 | 3.58 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5726 kWh | 7211 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.17 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1266 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DW1 / ETSHB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DW1 / ETSHB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 186 % | 140 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.71 | 3.57 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5479 kWh | 7236 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.07 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1296 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DV3 / ETSX16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DV3 / ETSX16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.57 | 3.62 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5649 kWh | 7134 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.17 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1266 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DW1 / ETSX16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DW1 / ETSX16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.81 | 3.63 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5366 kWh | 7122 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.07 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1296 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DV3 / ETSXB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DV3 / ETSXB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.41 kW |
| COP | 5.00 | 3.01 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 180 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.57 | 3.62 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.1 kW | 11.2 kW |
| COP Tj = -7°C | 3.12 | 2.47 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.7 kW | 6.9 kW |
| COP Tj = +2°C | 4.44 | 3.56 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 5.7 kW | 6.9 kW |
| COP Tj = +7°C | 5.84 | 4.44 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 6.0 kW | 6.2 kW |
| COP Tj = 12°C | 7.40 | 5.72 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 11.1 kW | 12.2 kW |
| COP Tj = Tbiv | 3.12 | 2.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.1 kW | 12.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.76 | 2.19 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 41 W | 41 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5649 kWh | 7134 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.17 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.99 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.98 |
| P _{off} | 21 W |
| PTO | 41 W |
| PSB | 21 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1266 kWh |

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 25 Mar 2022

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 3.00 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.2 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |

Model: EPRA18DW1 / ETSXB16P50E

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | EPRA18DW1 / ETSXB16P50E |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 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 | 9.00 kW | 7.24 kW |
| El input | 1.80 kW | 2.47 kW |
| COP | 5.00 | 2.93 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45.6 dB(A) | 45.6 dB(A) |
| Sound power level outdoor | 54.0 dB(A) | 54.0 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 190 % | 142 % |
| Prated | 12.5 kW | 12.5 kW |
| SCOP | 4.81 | 3.63 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.7 kW | 11.1 kW |
| COP Tj = -7°C | 2.97 | 2.43 |
| Cdh Tj = -7 °C | 1.00 | 1.0 |
| Pdh Tj = +2°C | 6.9 kW | 6.7 kW |
| COP Tj = +2°C | 4.94 | 3.52 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 6.2 kW | 6.5 kW |
| COP Tj = +7°C | 5.95 | 4.54 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |

This information was generated by the HP KEYMARK database on 25 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.6 kW | 5.2 kW |
| COP Tj = 12°C | 7.07 | 5.97 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 10.7 kW | 12.5 kW |
| COP Tj = Tbiv | 2.97 | 2.12 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.1 kW | 12.5 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.88 | 2.12 |
| WTOL | 35 °C | 55 °C |
| Poff | 31 W | 31 W |
| PTO | 33 W | 33 W |
| PSB | 42 W | 42 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.4 kW | 0.0 kW |
| Annual energy consumption Qhe | 5366 kWh | 7122 kWh |

Cooling

EN 14511-2

| | |
|------------------|-------------------|
| | +7°C/+12°C |
| El input | 3.31 kW |
| Cooling capacity | 8.86 |
| EER | 2.68 |

EN 14825

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| | |
|---|-------------------|
| | +7°C/+12°C |
| P _{designc} | 8.8 kW |
| SEER | 4.07 |
| P _{dc} T _j = 35°C | 8.86 kW |
| EER T _j = 35°C | 2.68 |
| P _{dc} T _j = 30°C | 6.61 kW |
| EER T _j = 30°C | 3.72 |
| C _{dc} | 0.98 |
| P _{dc} T _j = 25°C | 5.12 kW |
| EER T _j = 25°C | 4.68 |
| C _{dc} | 0.97 |
| P _{dc} T _j = 20°C | 5.31 kW |
| EER T _j = 20°C | 5.81 |
| C _{dc} | 0.97 |
| P _{off} | 31 W |
| PTO | 33 W |
| PSB | 42 W |
| PCK | 0 W |
| Annual energy consumption Q _{ce} | 1296 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 125 % |
| COP | 2.99 |
| Heating up time | 1:44 h:min |
| Standby power input | 46.5 W |
| Reference hot water temperature | 44.4 °C |
| Mixed water at 40°C | 245.0 l |