

Subtype DAIKIN ALTHERMA 3 H MT F 12KW (230L)

| | |
|---------------------|---|
| Certificate Holder | DAIKIN Europe N.V. |
| Address | Zandvoordestraat 300 |
| ZIP | B-8400 |
| City | Oostende |
| Country | BE |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | DAIKIN ALTHERMA 3 H MT F 12KW (230L) |
| Registration number | 011-1W0505 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 3.25 kg |
| Certification Date | 24.11.2021 |
| Testing basis | HP KEYMARK certification scheme rules rev. 9 |

Model EPRA12EV3 / ETVH12S23E(6V/9W)

| | |
|-------------------------------------|-------------------------------|
| Model name | EPRA12EV3 / ETVH12S23E(6V/9W) |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 126 % |
| COP | 2.96 |
| Heating up time | 2:14 h:min |
| Standby power input | 44.8 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.25 kW | 2.63 kW |
| COP | 4.92 | 2.94 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.96 kW | |
| Cooling capacity | 8.62 | |
| EER | 2.91 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |

Sound power level outdoor 53.0 dB(A) 53.0 dB(A)

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 186 % | 134 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.71 | 3.43 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.10 | 2.21 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.76 | 3.37 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.14 | 4.48 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 7.84 | 5.98 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.77 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 1.97 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 24 W | 24 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3637 kWh | 5120 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.31 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 2.91 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.17 | |
| Cdc Tj = 30 °C | 0.98 | |

| | |
|-------------------------------|---------|
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.13 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.75 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 25 W |
| PTO | 3 W |
| PSB | 25 W |
| PCK | 0 W |
| Annual energy consumption Qce | 961 kWh |

Model EPRA12EV3 / ETVH12SU23E6V

| | |
|-------------------------------------|---------------------------|
| Model name | EPRA12EV3 / ETVH12SU23E6V |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 126 % |
| COP | 2.96 |
| Heating up time | 2:14 h:min |
| Standby power input | 44.8 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.25 kW | 2.63 kW |
| COP | 4.92 | 2.94 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.96 kW | |
| Cooling capacity | 8.62 | |
| EER | 2.91 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |

Sound power level outdoor 53.0 dB(A) 53.0 dB(A)

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 186 % | 134 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.71 | 3.43 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.10 | 2.21 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.76 | 3.37 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.14 | 4.48 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 7.84 | 5.98 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.77 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 1.97 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 24 W | 24 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3637 kWh | 5120 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.31 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 2.91 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.17 | |
| Cdc Tj = 30 °C | 0.98 | |

| | |
|-------------------------------|---------|
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.13 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.75 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 25 W |
| PTO | 3 W |
| PSB | 25 W |
| PCK | 0 W |
| Annual energy consumption Qce | 961 kWh |

Model EPRA12EV3 / ETVX12S23E(6V/9W)

| | |
|-------------------------------------|-------------------------------|
| Model name | EPRA12EV3 / ETVX12S23E(6V/9W) |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 126 % |
| COP | 2.96 |
| Heating up time | 2:14 h:min |
| Standby power input | 44.8 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.25 kW | 2.63 kW |
| COP | 4.92 | 2.94 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.96 kW | |
| Cooling capacity | 8.62 | |
| EER | 2.91 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

| | | |
|---------------------------|------------|------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 190 % | 136 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.82 | 3.48 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.10 | 2.21 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.76 | 3.37 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.14 | 4.48 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 7.84 | 5.98 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.77 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 1.97 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 24 W | 24 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3560 kWh | 5043 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.31 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 2.91 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.17 | |

| | |
|-------------------------------|---------|
| Cdc Tj = 30 °C | 0.98 |
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.13 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.75 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 25 W |
| PTO | 3 W |
| PSB | 25 W |
| PCK | 0 W |
| Annual energy consumption Qce | 961 kWh |

Model EPRA12EV3 / ETVZ12S23E(6V/9W)

| | |
|-------------------------------------|-------------------------------|
| Model name | EPRA12EV3 / ETVZ12S23E(6V/9W) |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 126 % |
| COP | 2.96 |
| Heating up time | 2:14 h:min |
| Standby power input | 44.8 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.25 kW | 2.63 kW |
| COP | 4.92 | 2.94 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.96 kW | |
| Cooling capacity | 8.62 | |
| EER | 2.91 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |

| | | |
|---------------------------|------------|------------|
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |
|---------------------------|------------|------------|

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 186 % | 134 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.71 | 3.43 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.10 | 2.21 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.76 | 3.37 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.14 | 4.48 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 7.84 | 5.98 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.77 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 1.97 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 24 W | 24 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3637 kWh | 5120 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.31 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 2.91 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.17 | |
| Cdc Tj = 30 °C | 0.98 | |

| | |
|-------------------------------|---------|
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.13 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.75 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 25 W |
| PTO | 3 W |
| PSB | 25 W |
| PCK | 0 W |
| Annual energy consumption Qce | 961 kWh |

Model EPRA12EW1 / ETVH12S23E(6V/9W)

| | |
|-------------------------------------|-------------------------------|
| Model name | EPRA12EW1 / ETVH12S23E(6V/9W) |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 130 % |
| COP | 3.05 |
| Heating up time | 2:14 h:min |
| Standby power input | 43.9 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.21 kW | 2.53 kW |
| COP | 5.10 | 3.05 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.86 kW | |
| Cooling capacity | 8.62 | |
| EER | 3.01 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |

| | | |
|---------------------------|------------|------------|
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |
|---------------------------|------------|------------|

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 191 % | 138 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.84 | 3.53 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.20 | 2.30 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.93 | 3.50 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.37 | 4.61 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 8.13 | 6.16 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.86 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86 | 2.05 |
| WTOL | 35 °C | 55 °C |
| Poff | 27 W | 27 W |
| PTO | 24 W | 24 W |
| PSB | 27 W | 27 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3539 kWh | 4970 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.41 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 3.01 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.32 | |
| Cdc Tj = 30 °C | 0.98 | |

| | |
|-------------------------------|---------|
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.34 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.72 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 31 W |
| PTO | 0 W |
| PSB | 31 W |
| PCK | 0 W |
| Annual energy consumption Qce | 943 kWh |

Model EPRA12EW1 / ETVH12SU23E6V

| | |
|-------------------------------------|---------------------------|
| Model name | EPRA12EW1 / ETVH12SU23E6V |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 130 % |
| COP | 3.05 |
| Heating up time | 2:14 h:min |
| Standby power input | 43.9 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.21 kW | 2.53 kW |
| COP | 5.10 | 3.05 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.86 kW | |
| Cooling capacity | 8.62 | |
| EER | 3.01 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |

Sound power level outdoor 53.0 dB(A) 53.0 dB(A)

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 191 % | 138 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.84 | 3.53 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.20 | 2.30 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.93 | 3.50 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.37 | 4.61 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 8.13 | 6.16 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.86 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86 | 2.05 |
| WTOL | 35 °C | 55 °C |
| Poff | 27 W | 27 W |
| PTO | 24 W | 24 W |
| PSB | 27 W | 27 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3539 kWh | 4970 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.41 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 3.01 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.32 | |
| Cdc Tj = 30 °C | 0.98 | |

| | |
|-------------------------------|---------|
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.34 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.72 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 31 W |
| PTO | 0 W |
| PSB | 31 W |
| PCK | 0 W |
| Annual energy consumption Qce | 943 kWh |

Model EPRA12EW1 / ETVX12S23E(6V/9W)

| | |
|-------------------------------------|-------------------------------|
| Model name | EPRA12EW1 / ETVX12S23E(6V/9W) |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 130 % |
| COP | 3.05 |
| Heating up time | 2:14 h:min |
| Standby power input | 43.9 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.21 kW | 2.53 kW |
| COP | 5.10 | 3.05 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.86 kW | |
| Cooling capacity | 8.62 | |
| EER | 3.01 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

| | | |
|---------------------------|------------|------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 196 % | 141 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.98 | 3.60 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.20 | 2.30 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.93 | 3.50 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.37 | 4.61 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 8.13 | 6.16 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.86 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86 | 2.05 |
| WTOL | 35 °C | 55 °C |
| Poff | 27 W | 27 W |
| PTO | 24 W | 24 W |
| PSB | 27 W | 27 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3440 kWh | 4871 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.41 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 3.01 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.32 | |

| | |
|-------------------------------|---------|
| Cdc Tj = 30 °C | 0.98 |
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.34 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.72 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 31 W |
| PTO | 0 W |
| PSB | 31 W |
| PCK | 0 W |
| Annual energy consumption Qce | 943 kWh |

Model EPRA12EW1 / ETVZ12S23E(6V/9W)

| | |
|-------------------------------------|-------------------------------|
| Model name | EPRA12EW1 / ETVZ12S23E(6V/9W) |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 130 % |
| COP | 3.05 |
| Heating up time | 2:14 h:min |
| Standby power input | 43.9 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.21 kW | 2.53 kW |
| COP | 5.10 | 3.05 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.86 kW | |
| Cooling capacity | 8.62 | |
| EER | 3.01 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |

| | | |
|---------------------------|------------|------------|
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |
|---------------------------|------------|------------|

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 191 % | 138 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.84 | 3.53 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.20 | 2.30 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.93 | 3.50 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.37 | 4.61 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 8.13 | 6.16 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.86 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86 | 2.05 |
| WTOL | 35 °C | 55 °C |
| Poff | 27 W | 27 W |
| PTO | 24 W | 24 W |
| PSB | 27 W | 27 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3539 kWh | 4970 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|----------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.41 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 3.01 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.32 | |
| Cdc Tj = 30 °C | 0.98 | |

| | |
|-------------------------------|---------|
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.34 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.72 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 31 W |
| PTO | 0 W |
| PSB | 31 W |
| PCK | 0 W |
| Annual energy consumption Qce | 943 kWh |

Model EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit

| | |
|-------------------------------------|---|
| Model name | EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 126 % |
| COP | 2.96 |
| Heating up time | 2:14 h:min |
| Standby power input | 44.8 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.25 kW | 2.63 kW |
| COP | 4.92 | 2.94 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.96 kW | |
| Cooling capacity | 8.62 | |
| EER | 2.91 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

| | | |
|---------------------------|------------|------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 190 % | 136 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.82 | 3.48 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.10 | 2.21 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.76 | 3.37 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.14 | 4.48 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 7.84 | 5.98 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.77 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 1.97 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 24 W | 24 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3560 kWh | 5043 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.31 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 2.91 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.17 | |

| | |
|-------------------------------|---------|
| Cdc Tj = 30 °C | 0.98 |
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.13 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.75 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 25 W |
| PTO | 3 W |
| PSB | 25 W |
| PCK | 0 W |
| Annual energy consumption Qce | 961 kWh |

Model EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit

| | |
|-------------------------------------|---|
| Model name | EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 130 % |
| COP | 3.05 |
| Heating up time | 2:14 h:min |
| Standby power input | 43.9 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.21 kW | 2.53 kW |
| COP | 5.10 | 3.05 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.86 kW | |
| Cooling capacity | 8.62 | |
| EER | 3.01 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

| | | |
|---------------------------|------------|------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 196 % | 141 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.98 | 3.60 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.20 | 2.30 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.93 | 3.50 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.37 | 4.61 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 8.13 | 6.16 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.86 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86 | 2.05 |
| WTOL | 35 °C | 55 °C |
| Poff | 27 W | 27 W |
| PTO | 24 W | 24 W |
| PSB | 27 W | 27 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3440 kWh | 4871 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.41 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 3.01 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.32 | |

| | |
|-------------------------------|---------|
| Cdc Tj = 30 °C | 0.98 |
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.34 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.72 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 31 W |
| PTO | 0 W |
| PSB | 31 W |
| PCK | 0 W |
| Annual energy consumption Qce | 943 kWh |

Model EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit

| | |
|-------------------------------------|---|
| Model name | EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 126 % |
| COP | 2.96 |
| Heating up time | 2:14 h:min |
| Standby power input | 44.8 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.25 kW | 2.63 kW |
| COP | 4.92 | 2.94 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.96 kW | |
| Cooling capacity | 8.62 | |
| EER | 2.91 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

| | | |
|---------------------------|------------|------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 190 % | 136 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.82 | 3.48 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.10 | 2.21 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.76 | 3.37 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.14 | 4.48 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 7.84 | 5.98 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.77 | 1.97 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.77 | 1.97 |
| WTOL | 35 °C | 55 °C |
| Poff | 21 W | 21 W |
| PTO | 24 W | 24 W |
| PSB | 21 W | 21 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3560 kWh | 5043 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.31 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 2.91 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.17 | |

| | |
|-------------------------------|---------|
| Cdc Tj = 30 °C | 0.98 |
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.13 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.75 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 25 W |
| PTO | 3 W |
| PSB | 25 W |
| PCK | 0 W |
| Annual energy consumption Qce | 961 kWh |

Model EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit

| | |
|-------------------------------------|---|
| Model name | EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit |
| Application | Heating + DHW + low temp |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 130 % |
| COP | 3.05 |
| Heating up time | 2:14 h:min |
| Standby power input | 43.9 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 298 l |

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.17 kW | 7.72 kW |
| El input | 1.21 kW | 2.53 kW |
| COP | 5.10 | 3.05 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 2.86 kW | |
| Cooling capacity | 8.62 | |
| EER | 3.01 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--|-----------------|--------------------|
|--|-----------------|--------------------|

| | | |
|---------------------------|------------|------------|
| Sound power level indoor | 44.0 dB(A) | 44.0 dB(A) |
| Sound power level outdoor | 53.0 dB(A) | 53.0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 196 % | 141 % |
| Prated | 8.3 kW | 8.5 kW |
| SCOP | 4.98 | 3.60 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.5 kW | 7.6 kW |
| COP Tj = -7°C | 3.20 | 2.30 |
| Cdh Tj = -7 °C | 1.0 | 1.0 |
| Pdh Tj = +2°C | 4.4 kW | 4.6 kW |
| COP Tj = +2°C | 4.93 | 3.50 |
| Cdh Tj = +2 °C | 1.0 | 1.0 |
| Pdh Tj = +7°C | 4.3 kW | 3.0 kW |
| COP Tj = +7°C | 6.37 | 4.61 |
| Cdh Tj = +7 °C | 1.0 | 1.0 |
| Pdh Tj = 12°C | 6.6 kW | 3.7 kW |
| COP Tj = 12°C | 8.13 | 6.16 |
| Cdh Tj = +12 °C | 1.0 | 1.0 |
| Pdh Tj = Tbiv | 8.1 kW | 8.3 kW |
| COP Tj = Tbiv | 2.86 | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.1 kW | 8.3 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.86 | 2.05 |
| WTOL | 35 °C | 55 °C |
| Poff | 27 W | 27 W |
| PTO | 24 W | 24 W |
| PSB | 27 W | 27 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.0 kW | 0.0 kW |
| Annual energy consumption Qhe | 3440 kWh | 4871 kWh |

EN 14825 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|---------------|------------|-------------|
| Pdesignc | 8.5 kW | |
| SEER | 5.41 | |
| Pdc Tj = 35°C | 8.62 kW | |
| EER Tj = 35°C | 3.01 | |
| Pdc Tj = 30°C | 6.68 kW | |
| EER Tj = 30°C | 4.32 | |

| | |
|-------------------------------|---------|
| Cdc Tj = 30 °C | 0.98 |
| Pdc Tj = 25°C | 4.04 kW |
| EER Tj = 25°C | 6.34 |
| Cdc Tj = 25 °C | 0.96 |
| Pdc Tj = 20°C | 2.69 kW |
| EER Tj = 20°C | 8.72 |
| Cdc Tj = 20 °C | 0.91 |
| Poff | 31 W |
| PTO | 0 W |
| PSB | 31 W |
| PCK | 0 W |
| Annual energy consumption Qce | 943 kWh |