Login

| Summary of | Ecodan Power Inverter 10/12-300D AA | Reg. No. | 037-0025-20 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Mitsubishi Electric Air Conditioning Systems Europe LTD | | |
| Address | Nettlehill Road, Houston Industrial Estate | Zip | EH54 5EQ |
| City | Livingston | Country | United Kingdom |
| Certification Body | SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise) | | |
| Subtype title | Ecodan Power Inverter 10/12-300D AA | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 1.6 kg | | |
| Certification Date | 06.10.2020 | | |
| Testing basis | HP Keymark scheme rules rev. no. 6 | | |

# Model: PUD-SWM100VAA(-BS) + E*ST30D-M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM100VAA(-BS) + E*ST30D-M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8 kW | 8 kW |
| El input | 1.6 kW | 3.08 kW |
| COP | 5 | 2.6 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 178 % | 131 % |
| Prated | 10 kW | 10 kW |
| SCOP | 4.53 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 8.8 kW | 8.8 kW |
| COP Tj = -7°C | 3.1 | 2 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 5.7 kW | 5.7 kW |
| COP Tj = +2°C | 4.46 | 3.16 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.4 kW | 5.2 kW |
| COP Tj = +7°C | 5.68 | 4.77 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.5 kW | 3.6 kW |
| COP Tj = 12°C | 7.76 | 6.92 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 8.8 kW | 8.8 kW |
| COP Tj = Tbiv | 3.1 | 2 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.57 kW | 8.57 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.85 | 1.93 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.43 kW | 1.43 kW |
| Annual energy consumption Qhe | 4564 kWh | 6173 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM100VAA(-BS) + E*ST30D-*M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM100VAA(-BS) + E*ST30D-*M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8 kW | 8 kW |
| El input | 1.6 kW | 3.08 kW |
| COP | 5 | 2.6 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 178 % | 131 % |
| Prated | 10 kW | 10 kW |
| SCOP | 4.53 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 8.8 kW | 8.8 kW |
| COP Tj = -7°C | 3.1 | 2 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 5.7 kW | 5.7 kW |
| COP Tj = +2°C | 4.46 | 3.16 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.4 kW | 5.2 kW |
| COP Tj = +7°C | 5.68 | 4.77 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.5 kW | 3.6 kW |
| COP Tj = 12°C | 7.76 | 6.92 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 8.8 kW | 8.8 kW |
| COP Tj = Tbiv | 3.1 | 2 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.57 kW | 8.57 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.85 | 1.93 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.43 kW | 1.43 kW |
| Annual energy consumption Qhe | 4564 kWh | 6173 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM100YAA(-BS) + E*ST30D-M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM100YAA(-BS) + E*ST30D-M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8 kW | 8 kW |
| El input | 1.6 kW | 3.08 kW |
| COP | 5 | 2.6 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 177 % | 130 % |
| Prated | 10 kW | 10 kW |
| SCOP | 4.49 | 3.33 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 8.8 kW | 8.8 kW |
| COP Tj = -7°C | 3.1 | 2 |
| Cdh Tj = -7 °C | 0.99 | 1 |
| Pdh Tj = +2°C | 5.7 kW | 5.7 kW |
| COP Tj = +2°C | 4.46 | 3.16 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 5.4 kW | 5.2 kW |
| COP Tj = +7°C | 5.68 | 4.77 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.5 kW | 3.6 kW |
| COP Tj = 12°C | 7.76 | 6.92 |
| Cdh Tj = +12 °C | 0.96 | 0.96 |
| Pdh Tj = Tbiv | 8.8 kW | 8.8 kW |
| COP Tj = Tbiv | 3.1 | 2 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.57 kW | 8.57 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.85 | 1.93 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.43 kW | 1.43 kW |
| Annual energy consumption Qhe | 4602 kWh | 6210 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM100YAA(-BS) + E*ST30D-*M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM100YAA(-BS) + E*ST30D-*M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8 kW | 8 kW |
| El input | 1.6 kW | 3.08 kW |
| COP | 5 | 2.6 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 177 % | 130 % |
| Prated | 10 kW | 10 kW |
| SCOP | 4.49 | 3.33 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 8.8 kW | 8.8 kW |
| COP Tj = -7°C | 3.1 | 2 |
| Cdh Tj = -7 °C | 0.99 | 1 |
| Pdh Tj = +2°C | 5.7 kW | 5.7 kW |
| COP Tj = +2°C | 4.46 | 3.16 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 5.4 kW | 5.2 kW |
| COP Tj = +7°C | 5.68 | 4.77 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.5 kW | 3.6 kW |
| COP Tj = 12°C | 7.76 | 6.92 |
| Cdh Tj = +12 °C | 0.96 | 0.96 |
| Pdh Tj = Tbiv | 8.8 kW | 8.8 kW |
| COP Tj = Tbiv | 3.1 | 2 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.57 kW | 8.57 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.85 | 1.93 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.43 kW | 1.43 kW |
| Annual energy consumption Qhe | 4602 kWh | 6210 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM120VAA(-BS) + E*ST30D-M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM120VAA(-BS) + E*ST30D-M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10 kW | 10 kW |
| El input | 2.13 kW | 3.77 kW |
| COP | 4.7 | 2.65 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 177 % | 129 % |
| Prated | 12 kW | 12 kW |
| SCOP | 4.5 | 3.3 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 10.6 kW | 10.6 kW |
| COP Tj = -7°C | 2.85 | 1.94 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.5 kW | 6.5 kW |
| COP Tj = +2°C | 4.45 | 3.1 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.6 kW | 5.3 kW |
| COP Tj = +7°C | 5.83 | 4.73 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.4 kW | 4.3 kW |
| COP Tj = 12°C | 7.86 | 6.94 |
| Cdh Tj = +12 °C | 0.97 | 0.98 |
| Pdh Tj = Tbiv | 10.6 kW | 10.6 kW |
| COP Tj = Tbiv | 2.85 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.2 kW | 10.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.88 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.8 kW | 1.8 kW |
| Annual energy consumption Qhe | 5512 kWh | 7519 kWh |

## Domestic Hot Water (DHW)

## Average Climate

| EN 16147 | |
|---|---|
| | |
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM120VAA(-BS) + E*ST30D-*M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM120VAA(-BS) + E*ST30D-*M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10 kW | 10 kW |
| El input | 2.13 kW | 3.77 kW |
| COP | 4.7 | 2.65 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 177 % | 129 % |
| Prated | 12 kW | 12 kW |
| SCOP | 4.5 | 3.3 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 10.6 kW | 10.6 kW |
| COP Tj = -7°C | 2.85 | 1.94 |
| Cdh Tj = -7 °C | 1 | 1 |
| Pdh Tj = +2°C | 6.5 kW | 6.5 kW |
| COP Tj = +2°C | 4.45 | 3.1 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 5.6 kW | 5.3 kW |
| COP Tj = +7°C | 5.83 | 4.73 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.4 kW | 4.3 kW |
| COP Tj = 12°C | 7.86 | 6.94 |
| Cdh Tj = +12 °C | 0.97 | 0.98 |
| Pdh Tj = Tbiv | 10.6 kW | 10.6 kW |
| COP Tj = Tbiv | 2.85 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.2 kW | 10.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.88 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.8 kW | 1.8 kW |
| Annual energy consumption Qhe | 5512 kWh | 7519 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM120YAA(-BS) + E*ST30D-M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM120YAA(-BS) + E*ST30D-M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10 kW | 10 kW |
| El input | 2.13 kW | 3.77 kW |
| COP | 4.7 | 2.65 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 176 % | 128 % |
| Prated | 12 kW | 12 kW |
| SCOP | 4.47 | 3.28 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 10.6 kW | 10.6 kW |
| COP Tj = -7°C | 2.85 | 1.94 |
| Cdh Tj = -7 °C | 0.99 | 1 |
| Pdh Tj = +2°C | 6.5 kW | 6.5 kW |
| COP Tj = +2°C | 4.45 | 3.1 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 5.6 kW | 5.3 kW |
| COP Tj = +7°C | 5.83 | 4.73 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.4 kW | 4.3 kW |
| COP Tj = 12°C | 7.86 | 6.94 |
| Cdh Tj = +12 °C | 0.96 | 0.96 |
| Pdh Tj = Tbiv | 10.6 kW | 10.6 kW |
| COP Tj = Tbiv | 2.85 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.2 kW | 10.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.88 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.8 kW | 1.8 kW |
| Annual energy consumption Qhe | 5548 kWh | 7555 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |

# Model: PUD-SWM120YAA(-BS) + E*ST30D-*M*D

| Configure model | |
|---|---|
| Model name | PUD-SWM120YAA(-BS) + E*ST30D-*M*D |
| 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 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10 kW | 10 kW |
| El input | 2.13 kW | 3.77 kW |
| COP | 4.7 | 2.65 |

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

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 41 dB(A) | 41 dB(A) |
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 176 % | 128 % |
| Prated | 12 kW | 12 kW |
| SCOP | 4.47 | 3.28 |
| Tbiv | -7 °C | -7 °C |
| TOL | -25 °C | -25 °C |
| Pdh Tj = -7°C | 10.6 kW | 10.6 kW |
| COP Tj = -7°C | 2.85 | 1.94 |
| Cdh Tj = -7 °C | 0.99 | 1 |
| Pdh Tj = +2°C | 6.5 kW | 6.5 kW |
| COP Tj = +2°C | 4.45 | 3.1 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 5.6 kW | 5.3 kW |
| COP Tj = +7°C | 5.83 | 4.73 |
| Cdh Tj = +7 °C | 0.98 | 0.98 |

| | | |
|---|---|---|
| Pdh Tj = 12°C | 4.4 kW | 4.3 kW |
| COP Tj = 12°C | 7.86 | 6.94 |
| Cdh Tj = +12 °C | 0.96 | 0.96 |
| Pdh Tj = Tbiv | 10.6 kW | 10.6 kW |
| COP Tj = Tbiv | 2.85 | 1.94 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.2 kW | 10.2 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.64 | 1.88 |
| WTOL | 60 °C | 60 °C |
| Poff | 22 W | 22 W |
| PTO | 22 W | 22 W |
| PSB | 22 W | 22 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.8 kW | 1.8 kW |
| Annual energy consumption Qhe | 5548 kWh | 7555 kWh |

## Domestic Hot Water (DHW)

## Average Climate

## EN 16147

| | |
|---|---|
| Declared load profile | XL |
| Efficiency ηDHW | 121 % |
| COP | 2.93 |
| Heating up time | 02:25 h:min |
| Standby power input | 39 W |
| Reference hot water temperature | 52.5 °C |
| Mixed water at 40°C | 417 l |