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| Summary of | Ecodan Mr.SLIM+ 8-200D | Reg. No. | 037-0029-20 |
|---------------------|---|----------|----------------|
| 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 Mr.SLIM+ 8-200D | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 3.8 kg | | |
| Certification Date | 06.03.2020 | | |
| Testing basis | HP Keymark scheme rules rev. no. 6 | | |



Model: PUHZ-FRP71VHA2 + EHST20C-M*D

| Configure model | | |
|-------------------------------------|------------------------------|--|
| Model name | PUHZ-FRP71VHA2 + EHST20C-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 | 8.00 kW | 8.00 kW |
| El input | 1.98 kW | 3.15 kW |
| СОР | 4.05 | 2.54 |

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





| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |
| Sound power level outdoor | 68 dB(A) | 68 dB(A) |

| EN 14825 | | |
|----------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 163 % | 121 % |
| Prated | 7.50 kW | 7.50 kW |
| SCOP | 4.15 | 3.11 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 6.60 kW | 6.60 kW |
| COP Tj = -7°C | 2.54 | 2.07 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 4.70 kW | 4.10 kW |
| COP Tj = +2°C | 4.38 | 3.12 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 5.40 kW | 2.80 kW |
| COP Tj = +7°C | 5.40 | 4.03 |
| Cdh Tj = +7 °C | 0.980 | 0.970 |





| 6.20 kW | 1.60 kW |
|-------------|---|
| 7.16 | 4.59 |
| 0.970 | 0.940 |
| 6.60 kW | 6.60 kW |
| 2.54 | 2.07 |
| 6.02 kW | 6.02 kW |
| 2.26 | 1.87 |
| | |
| 60 °C | 60 °C |
| 20 W | 20 W |
| 20 W | 20 W |
| 20 W | 20 W |
| 5 W | 5 W |
| Electricity | Electricity |
| 1.48 kW | 1.48 kW |
| 3734 kWh | 4986 kWh |
| | 7.16 0.970 6.60 kW 2.54 6.02 kW 2.26 60 °C 20 W 20 W 20 W 5 W Electricity 1.48 kW |

Domestic Hot Water (DHW)



| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 138 % | |
| СОР | 3.26 | |
| Heating up time | 02:22 h:min | |
| Standby power input | 37.0 W | |
| Reference hot water temperature | 52.5 °C | |
| Mixed water at 40°C | 292 I | |



Model: PUHZ-FRP71VHA2 + EHST20C-*M*D

| Configure model | | |
|--|--------------------------|--|
| Model name PUHZ-FRP71VHA2 + EHST20C-*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 | 8.00 kW | 8.00 kW |
| El input | 1.98 kW | 3.15 kW |
| СОР | 4.05 | 2.54 |

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





| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |
| Sound power level outdoor | 68 dB(A) | 68 dB(A) |

| EN 14825 | | |
|------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 163 % | 121 % |
| Prated | 7.50 kW | 7.50 kW |
| SCOP | 4.15 | 3.11 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 6.60 kW | 6.60 kW |
| COP Tj = -7°C | 2.54 | 2.07 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 4.70 kW | 4.10 kW |
| COP Tj = +2°C | 4.38 | 3.12 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 5.40 kW | 2.80 kW |
| $COP Tj = +7^{\circ}C$ | 5.40 | 4.03 |
| Cdh Tj = +7 °C | 0.980 | 0.970 |





| Pdh Tj = 12°C | 6.20 kW | 1.60 kW |
|---|-------------|-------------|
| COP Tj = 12°C | 7.16 | 4.59 |
| Cdh Tj = +12 °C | 0.970 | 0.940 |
| Pdh Tj = Tbiv | 6.60 kW | 6.60 kW |
| COP Tj = Tbiv | 2.54 | 2.07 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.02 kW | 6.02 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.26 | 1.87 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| РТО | 20 W | 20 W |
| PSB | 20 W | 20 W |
| PCK | 5 W | 5 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.48 kW | 1.48 kW |
| Annual energy consumption Qhe | 3734 kWh | 4986 kWh |

Domestic Hot Water (DHW)



| EN 16147 | | |
|---------------------------------|-------------|--|
| Declared load profile | L | |
| Efficiency ηDHW | 138 % | |
| СОР | 3.26 | |
| Heating up time | 02:22 h:min | |
| Standby power input | 37.0 W | |
| Reference hot water temperature | 52.5 °C | |
| Mixed water at 40°C | 292 I | |

Model: PUHZ-FRP71VHA2 + EHSC-M*D

| Configure model | | |
|-------------------------------------|---------------------------|--|
| Model name | PUHZ-FRP71VHA2 + EHSC-M*D | |
| Application | Heating (medium 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 | 8.00 kW | 8.00 kW | |
| El input | 1.98 kW | 3.15 kW | |
| СОР | 4.05 | 2.54 | |

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



| EN 12102-1 | | |
|---------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 40 dB(A) | 40 dB(A) |
| Sound power level outdoor | 68 dB(A) | 68 dB(A) |

| EN 14825 | | |
|------------------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| η_{s} | 163 % | 121 % |
| Prated | 7.50 kW | 7.50 kW |
| SCOP | 4.15 | 3.11 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 6.60 kW | 6.60 kW |
| COP Tj = -7°C | 2.54 | 2.07 |
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| WTOL | 60 °C | 60 °C |
| Poff | 20 W | 20 W |
| РТО | 20 W | 20 W |
| PSB | 20 W | 20 W |
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| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.48 kW | 1.48 kW |
| Annual energy consumption Qhe | 3734 kWh | 4986 kWh |



Model: PUHZ-FRP71VHA2 + EHSC-*M*D

| Configure model | | |
|-------------------------------------|----------------------------|--|
| Model name | PUHZ-FRP71VHA2 + EHSC-*M*D | |
| Application | Heating (medium 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 | 8.00 kW | 8.00 kW | |
| El input | 1.98 kW | 3.15 kW | |
| СОР | 4.05 | 2.54 | |

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



| EN 12102-1 | | | |
|---------------------------|-----------------|--------------------|--|
| | Low temperature | Medium temperature | |
| Sound power level indoor | 40 dB(A) | 40 dB(A) | |
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| η_{s} | 163 % | 121 % |
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| COP Tj = Tbiv | 2.54 | 2.07 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.02 kW | 6.02 kW |
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| WTOL | 60 °C | 60 °C |
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| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.48 kW | 1.48 kW |
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