Subtype Ecodan Mr.SLIM+ 8-200D	
Certificate Holder	Mitsubishi Electric Air Conditioning Systems Europe LTD
Address	Nettlehill Road, Houston Industrial Estate
ZIP	EH54 5EQ
City	Livingston
Country	GB
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	Ecodan Mr.SLIM+ 8-200D
Registration number	037-0029-20
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
Testing laboratory	SZU Brno, CZ

Model PUHZ-FRP71VHA2 + EHST20C-M*D

Model name	PUHZ-FRP71VHA2 + EHST20C-M*D
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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	138 %
COP	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 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	8.00 kW	8.00 kW
El input	1.98 kW	3.15 kW
COP	4.05	2.54

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
ηs	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
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
PTO	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

Model PUHZ-FRP71VHA2 + EHST20C-*M*D

Model name	PUHZ-FRP71VHA2 + EHST20C-*M*D
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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	138 %
COP	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 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	8.00 kW	8.00 kW
El input	1.98 kW	3.15 kW
COP	4.05	2.54

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
ηs	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
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
PTO	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

Model PUHZ-FRP71VHA2 + EHSC-M*D	
Model name	PUHZ-FRP71VHA2 + EHSC-M*D
Application	Heating (medium 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	No

Outdoor Air/Water 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	8.00 kW	8.00 kW
El input	1.98 kW	3.15 kW
COP	4.05	2.54

EN 12102-1 | Average Climate		
	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 | Average Climate		
	Low temperature	Medium temperature
ηs	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
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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
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PTO	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

Model PUHZ-FRP71VHA2 + EHSC-*M*D	
Model name	PUHZ-FRP71VHA2 + EHSC-*M*D
Application	Heating (medium 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	No

Outdoor Air/Water 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		
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Pdh Tj = +2°C	4.70 kW	4.10 kW
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COP Tj = +7°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
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Pdh Tj = Tbiv	6.60 kW	6.60 kW
COP Tj = Tbiv	2.54	2.07
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