Summary of	Ecodan Power Inverter 5-200D Packaged	Reg. No.	037-0032-20
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)		
Name of testing laboratory	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Subtype title	Ecodan Power Inverter 5-200D Packaged		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	HFC-32		
Mass Of Refrigerant	2 kg		
Certification Date	22.06.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUZ-WM50VHA(-BS) + ERPT20X-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.00 kW	5.00 kW
El input	1.00 kW	1.62 kW
COP	5.00	3.08
Indoor water flow rate	0.86 m³/h	0.54 m³/h

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	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	190 %	133 %
Prated	5.00 kW	5.00 kW
SCOP	4.83	3.40
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.40 kW	4.40 kW
COP Tj = -7°C	3.17	2.04
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.58	3.29
Cdh	0.98	0.98
Pdh Tj = +7°C	1.90 kW	1.70 kW
COP Tj = +7°C	6.55	4.47

Cdh	0.95	0.96
Pdh Tj = 12°C	1.80 kW	1.80 kW
COP Tj = 12°C	8.57	6.67
Cdh	0.93	0.94
Pdh Tj = Tbiv	4.40 kW	4.40 kW
COP Tj = Tbiv	3.17	2.04
Pdh Tj = TOL	3.50 kW	3.50 kW
COP Tj = TOL	1.75	1.75
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	0.81 kW	0.81 kW
Annual energy consumption Qhe	2113 kWh	3014 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	237 %	133 %
Prated	5.00 kW	5.00 kW
SCOP	6.00	4.13
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.00 kW	5.00 kW
COP Tj = +2°C	3.68	1.98
Cdh	0.99	0.99
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	4.92	3.30
Cdh	0.98	0.98
Pdh Tj = 12°C	1.90 kW	1.80 kW
COP Tj = 12°C	7.92	5.81

Cdh	0.94	0.95
Pdh Tj = Tbiv	4.40 kW	4.40 kW
COP Tj = Tbiv	2.99	1.93
Pdh Tj = TOL	3.50 kW	3.50 kW
COP Tj = TOL	1.66	1.66
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1111 kWh	1616 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	2:19 h:min
Standby power input	37.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	154 %
COP	3.62
Heating up time	2:49 h:min
Standby power input	34.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

Model: PUZ-WM50VHA(-BS) + EHPX-VM*D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.00 kW	5.00 kW
El input	1.00 kW	1.62 kW
COP	5.00	3.08
Indoor water flow rate	0.86 m³/h	0.54 m³/h

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	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	129 %
Prated	5.00 kW	5.00 kW
SCOP	4.66	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.40 kW	4.40 kW
COP Tj = -7°C	3.17	2.04
Cdh	0.99	0.99
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.58	3.29
Cdh	0.98	0.98
Pdh Tj = +7°C	1.90 kW	1.70 kW
COP Tj = +7°C	6.55	4.47

Cdh	0.95	0.96
Pdh Tj = 12°C	1.80 kW	1.80 kW
COP Tj = 12°C	8.57	6.67
Cdh	0.93	0.94
Pdh Tj = Tbiv	4.40 kW	4.40 kW
COP Tj = Tbiv	3.17	2.04
Pdh Tj = TOL	3.50 kW	3.50 kW
COP Tj = TOL	1.75	1.75
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	0.81 kW	0.81 kW
Annual energy consumption Qhe	2113 kWh	3014 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	226 %	129 %
Prated	5.00 kW	5.00 kW
SCOP	5.73	4.00
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	5.00 kW	5.00 kW
COP Tj = +2°C	3.68	1.98
Cdh	0.99	0.99
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	4.92	3.30
Cdh	0.98	0.98
Pdh Tj = 12°C	1.90 kW	1.80 kW
COP Tj = 12°C	7.92	5.81

Cdh	0.94	0.95
Pdh Tj = Tbiv	4.40 kW	4.40 kW
COP Tj = Tbiv	2.99	1.93
Pdh Tj = TOL	3.50 kW	3.50 kW
COP Tj = TOL	1.66	1.66
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1111 kWh	1616 kWh