Subtype Hydrodan 10

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	Hydrodan 10
Registration number	037-0101-22
Heat Pump Type	Water/Water
Refrigerant	R32
Mass of Refrigerant	0.9 kg
Certification Date	03.11.2022
Testing basis	HP Keymark scheme rules rev. no. 9
Testing laboratory	SZU Brno, CZ

Model EHWT17D-MHEDW

Model name	EHWT17D-MHEDW
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Heat Source	Water
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Water/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	171 %
COP	3.9
Heating up time	2:12 h:min
Standby power input	29 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 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	3.9 kW	4.6 kW
El input	0.67 kW	1.53 kW
COP	5.8	3

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	267 %	180 %

Prated	7 kW	7 kW
SCOP	6.87	4.69
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.19 kW	6.19 kW
COP Tj = -7°C	6.15	3.75
Cdh Tj = -7 °C	0.985	0.991
Pdh Tj = +2°C	3.81 kW	3.8 kW
COP Tj = +2°C	7.15	4.82
Cdh Tj = +2 °C	0.972	0.981
Pdh Tj = +7°C	2.4 kW	2.4 kW
COP Tj = +7°C	7.73	5.48
Cdh Tj = +7 °C	0.952	0.966
Pdh Tj = 12°C	1.21 kW	1.12 kW
COP Tj = 12°C	7.37	5.3
Cdh Tj = +12 °C	0.909	0.929
Pdh Tj = Tbiv	6.19 kW	6.19 kW
COP Tj = Tbiv	6.15	3.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.26 kW	6.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.94	3.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.986	0.992
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	0.74 kW	0.79 kW
Annual energy consumption Qhe	2104 kWh	3082 kWh