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Summary of	Ecodan Zubadan 14-300D	Reg. No.	037-0014-20
Certificate Holder	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 Zubadan 14-300D		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	5.5 kg		
Certification Date	14.02.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		



Model: PUHZ-SHW140YHA + EHST30C-M*D

Configure model		
Model name PUHZ-SHW140YHA + EHST30C-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	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
СОР	4.22	2.49

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	70 dB(A)	70 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.01	3.10
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.90 kW	5.50 kW
$COP Tj = +7^{\circ}C$	5.71	4.67
Cdh Tj = +7 °C	0.980	0.980

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Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.47	6.62
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.00 kW	14.00 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	13.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	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	2.90 kW	1.90 kW
Annual energy consumption Qhe	8446 kWh	10054 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	02:12 h:min	
Standby power input	43.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	



Model: PUHZ-SHW140YHA + EHST30C-*M*D

Configure model		
Model name PUHZ-SHW140YHA + EHST30C-*M*D		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional) n/a		

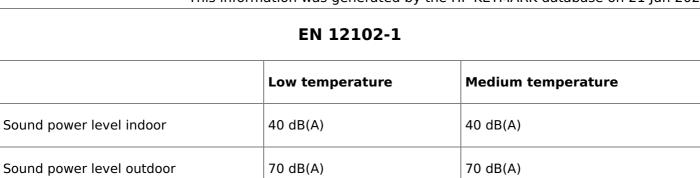
General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
СОР	4.22	2.49

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





CEN heat pump

EN 14825		
	Low temperature	Medium temperature
η_{s}	163 %	127 %
Prated	17.00 kW	15.80 kW
SCOP	4.16	3.25
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.01	3.10
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh Tj = +7 °C	0.980	0.980

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COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.10 kW	13.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	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	2.90 kW	1.90 kW
Annual energy consumption Qhe	8446 kWh	10054 kWh

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Efficiency ηDHW	118 %	
СОР	2.84	
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Standby power input	43.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	



Model: PUHZ-SHW140YHA + ERST30C-*M*D

Configure model		
Model name	PUHZ-SHW140YHA + ERST30C-*M*D	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data			
Power supply 3x400V 50Hz			

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	14.00 kW
El input	3.32 kW	5.62 kW
СОР	4.22	2.49

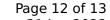
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Shutting off the heat transfer medium flow	naccod
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	128 %
Prated	17.00 kW	15.80 kW
SCOP	4.21	3.27
Tbiv	-7 °C	-7 °C
TOL	-28 °C	-28 °C
Pdh Tj = -7°C	15.00 kW	14.00 kW
COP Tj = -7°C	2.59	1.84
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	9.10 kW	8.50 kW
COP Tj = +2°C	4.03	3.10
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.90 kW	5.50 kW
COP Tj = +7°C	5.71	4.67
Cdh Tj = +7 °C	0.980	0.980

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WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.90 kW	1.90 kW
	- 	+

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate

8344 kWh

9973 kWh



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	02:12 h:min	
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