Subtype Ecodan Power Inverter 16	
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 Power Inverter 16
Registration number	037-0052-20
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	7.7 kg
Certification Date	09.04.2020
Testing basis	HP Keymark scheme rules rev. no. 7
Testing laboratory	SZU Brno, CZ

Model PUHZ-SW160YKA(-BS) + EHSE-M*D	
Model name	PUHZ-SW160YKA(-BS) + EHSE-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	3x400V 50Hz
Off-peak product	n/a

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	22.00 kW	22.00 kW
El input	5.24 kW	8.91 kW
COP	4.20	2.47

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	161 %	125 %
Prated	15.30 kW	13.50 kW
SCOP	4.10	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	13.50 kW	11.90 kW
COP Tj = -7°C	2.57	1.83
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.20 kW	7.20 kW
COP Tj = +2°C	4.13	3.17
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.30 kW	5.90 kW

COP Tj = +7°C	5.22	4.29
Cdh Tj = +7 °C	0.990	0.980
Pdh Tj = 12°C	7.70 kW	7.40 kW
COP Tj = 12°C	7.08	6.32
Cdh Tj = +12 °C	0.990	0.980
Pdh Tj = Tbiv	13.50 kW	11.90 kW
COP Tj = Tbiv	2.57	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	11.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	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	2.80 kW	2.20 kW
Annual energy consumption Qhe	7702 kWh	8716 kWh

Model PUHZ-SW160YKA(-BS) + EHSE-*M*D	
Model name	PUHZ-SW160YKA(-BS) + EHSE-*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	3x400V 50Hz
Off-peak product	n/a

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	22.00 kW	22.00 kW
El input	5.24 kW	8.91 kW
COP	4.20	2.47

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	161 %	125 %
Prated	15.30 kW	13.50 kW
SCOP	4.10	3.20
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	13.50 kW	11.90 kW
COP Tj = -7°C	2.57	1.83
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Pdh Tj = +2°C	8.20 kW	7.20 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35	1.80
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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	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.80 kW	2.20 kW
Annual energy consumption Qhe	7702 kWh	8716 kWh

Model PUHZ-SW160YKA(-BS) + ERSE-M*D	
Model name	PUHZ-SW160YKA(-BS) + ERSE-M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

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	22.00 kW	22.00 kW
El input	5.24 kW	8.91 kW
COP	4.20	2.47

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	78 dB(A)	78 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	163 %	126 %
Prated	15.30 kW	13.50 kW
SCOP	4.15	3.23
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	13.50 kW	11.90 kW
COP Tj = -7°C	2.57	1.83
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.20 kW	7.20 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	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	2.80 kW	2.20 kW
Annual energy consumption Qhe	7621 kWh	8636 kWh

Model PUHZ-SW160YKA(-BS) + ERSE-*M*D	
Model name	PUHZ-SW160YKA(-BS) + ERSE-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

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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WTOL	60 °C	60 °C
Poff	22 W	22 W
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PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.80 kW	2.20 kW
Annual energy consumption Qhe	7621 kWh	8636 kWh