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Summary of	Ecodan Power Inverter 9-300D Packaged AA	Reg. No.	037-0036-20
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)		
Subtype title	Ecodan Power Inverter 9-300D Packaged AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	2.2 kg		
Certification Date	22.06.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUZ-WM85VAA(-BS) + EHPT30X-*M*D

Configure model	
Model name	PUZ-WM85VAA(-BS) + EHPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98

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Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 18 Mar 2022

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 kW	0 kW
Annual energy consumption Q _{he}	1972 kWh	2852 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.89
Heating up time	04:02 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM85VAA(-BS) + EHPT30X-M*D

Configure model	
Model name	PUZ-WM85VAA(-BS) + EHPT30X-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98

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Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 18 Mar 2022

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 kW	0 kW
Annual energy consumption Q _{he}	1972 kWh	2852 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.89
Heating up time	04:02 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM85VAA(-BS) + ERPT30X-*M*D

Configure model	
Model name	PUZ-WM85VAA(-BS) + ERPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.77	3.45
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3515 kWh	4881 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.92	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	4.92	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 18 Mar 2022

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 kW	0 kW
Annual energy consumption Q _{he}	1920 kWh	2802 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.89
Heating up time	04:02 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM85YAA(-BS) + EHPT30X-*M*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + EHPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.82	5
Cdh Tj = +7 °C	0.97	0.97

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14825

	Low temperature	Medium temperature
η_s	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	5.1	3.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	0 kW	0 kW
Annual energy consumption Q _{he}	1997 kWh	2882 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.89
Heating up time	04:02 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM85YAA(-BS) + EHPT30X-M*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + EHPT30X-M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.82	5
Cdh Tj = +7 °C	0.97	0.97

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
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EN 14825

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η_s	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	5.1	3.22
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	0 kW	0 kW
Annual energy consumption Q _{he}	1997 kWh	2882 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.89
Heating up time	04:02 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Model: PUZ-WM85YAA(-BS) + ERPT30X-*M*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + ERPT30X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.79	3.46
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.97

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01
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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3514 kWh	4884 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14825

	Low temperature	Medium temperature
η_s	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.91	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	4.98	3.26
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	0 kW	0 kW
Annual energy consumption Q _{he}	1920 kWh	2805 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	120 %
COP	2.89
Heating up time	04:02 h:min
Standby power input	42 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	135 %
COP	3.24
Heating up time	03:42 h:min
Standby power input	39 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	417 l