

#### **Login**

Summary of	Ecodan Power Inverter 11-300D Packaged AA	Reg. No.	037-0037-20
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 11-300D Packaged AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	3 kg		
Certification Date	27.07.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		



## Model: PUZ-WM112VAA(-BS) + EHPT30X-\*M\*D

Configure model		
Model name	PUZ-WM112VAA(-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	11.2 kW	10 kW	
El input	2.38 kW	3.33 kW	
СОР	4.7	3	

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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	191 %	134 %
Prated	10 kW	10 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.56	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.99





Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	1.22 kW
Annual energy consumption Qhe	4251 kWh	6024 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	60 dB(A)	60 dB(A)	





#### EN 14825

	Low temperature	Medium temperature
$\eta_{S}$	215 %	152 %
Prated	10 kW	10 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = $+2$ °C	10 kW	10 kW
$COP Tj = +2^{\circ}C$	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
$COP Tj = +7^{\circ}C$	4.82	3.13
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.12	5.66
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
WTOL	60 °C	60 °C





Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	2449 kWh	3452 kWh

## Domestic Hot Water (DHW)

## **Average Climate**

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.91	
Heating up time	03:10 h:min	
Standby power input	40 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	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	



## Model: PUZ-WM112VAA(-BS) + EHPT30X-M\*D

Configure model		
Model name	PUZ-WM112VAA(-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	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
СОР	4.7	3

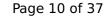
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

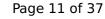
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	191 %	134 %
Prated	10 kW	10 kW
SCOP	4.86	3.43
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.56	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.99





Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	1.22 kW
Annual energy consumption Qhe	4251 kWh	6024 kWh

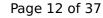
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	215 %	152 %
Prated	10 kW	10 kW
SCOP	5.46	3.87
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
$COPTj = +7^{\circ}C$	4.82	3.15
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.12	5.66
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
WTOL	60 °C	60 °C





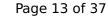
This information was generated by the HP KEYMARK database on 18 Mar 2022		

Poff	15 W	15 W
РТО	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 Qhe	2449 kWh	3452 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.91	
Heating up time	03:10 h:min	
Standby power input	40 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	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-WM112VAA(-BS) + ERPT30X-\*M\*D

Configure model		
Model name PUZ-WM112VAA(-BS) + ERPT30X-*M*D		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone Warmer Climate		
Reversibility Yes		
Cooling mode application (optional)	n/a	

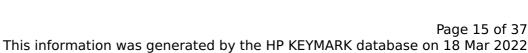
General Data		
Power supply 1x230V 50Hz		

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
СОР	4.7	3

EN 14511-4	
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

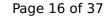
## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

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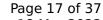
EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	195 %	136 %
Prated	10 kW	10 kW
SCOP	4.95	3.48
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.61	3.31
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.99





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Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	1.22 kW
Annual energy consumption Qhe	4173 kWh	5932 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{S}$	220 %	154 %
Prated	10 kW	10 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = $+2$ °C	10 kW	10 kW
$COPTj = +2^{\circ}C$	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
$COP Tj = +7^{\circ}C$	4.76	3.11
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.12	5.66
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
WTOL	60 °C	60 °C





Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

0 kW

2396 kWh

0 kW

3396 kWh

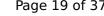
## Domestic Hot Water (DHW)

## **Average Climate**

Supplementary Heater: PSUP

Annual energy consumption Qhe

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.91	
Heating up time	03:10 h:min	
Standby power input	40 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	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	



## Model: PUZ-WM112YAA(-BS) + EHPT30X-\*M\*D

Configure model		
Model name PUZ-WM112YAA(-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	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
СОР	4.7	3

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

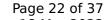
## **Average Climate**



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	189 %	133 %
Prated	10 kW	10 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.55	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.98





····s ····s ····ation was general	<u>,                                      </u>	
Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	1.22 kW
Annual energy consumption Qhe	4293 kWh	6063 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{S}$	213 %	150 %
Prated	10 kW	10 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = $+2$ °C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = $+2$ °C	1	1
Pdh Tj = $+7^{\circ}$ C	6.4 kW	6.4 kW
$COP Tj = +7^{\circ}C$	4.85	3.15
Cdh Tj = $+7$ °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.22	5.67
Cdh Tj = $+12$ °C	0.98	0.98
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
WTOL	60 °C	60 °C





Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

0 kW

2471 kWh

0 kW

3483 kWh

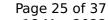
## Domestic Hot Water (DHW)

## **Average Climate**

Supplementary Heater: PSUP

Annual energy consumption Qhe

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.91	
Heating up time	03:10 h:min	
Standby power input	40 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	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-WM112YAA(-BS) + EHPT30X-M\*D

Configure model		
Model name PUZ-WM112YAA(-BS) + EHPT30X-M*D		
Application	ation 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	11.2 kW	10 kW	
El input	2.38 kW	3.33 kW	
СОР	4.7	3	

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

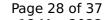
## **Average Climate**



 $$\operatorname{\textit{Page}}\xspace$  27 of 37 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

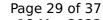
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	189 %	133 %
Prated	10 kW	10 kW
SCOP	4.81	3.41
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	8.8 kW	8.8 kW
COP Tj = -7°C	3.31	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.55	3.27
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.9 kW	5.2 kW
COP Tj = +7°C	6.68	4.61
Cdh Tj = +7 °C	0.98	0.98





Pdh Tj = 12°C	4.6 kW	4.7 kW
COP Tj = 12°C	9.1	6.35
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	8.8 kW	8.8 kW
COP Tj = Tbiv	3.31	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	8.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.11
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	1.22 kW
Annual energy consumption Qhe	4293 kWh	6063 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	213 %	150 %
Prated	10 kW	10 kW
SCOP	5.41	3.84
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = $+2$ °C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
$COPTj = +7^{\circ}C$	4.85	3.15
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.22	5.67
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
WTOL	60 °C	60 °C





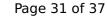
22 W	22 W
22 W	22 W

РТО	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	0 kW	0 kW
Annual energy consumption Qhe	2471 kWh	3483 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.91	
Heating up time	03:10 h:min	
Standby power input	40 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	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	



## Model: PUZ-WM112YAA(-BS) + ERPT30X-\*M\*D

Configure model		
Model name PUZ-WM112YAA(-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	11.2 kW	10 kW
El input	2.38 kW	3.33 kW
СОР	4.7	3

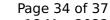
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

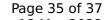
EN 14825			
Low temperature		Medium temperature	
$\eta_{S}$	195 %	136 %	
Prated	10 kW	10 kW	
SCOP	4.95	3.48	
Tbiv	-7 °C	-7 °C	
TOL	-25 °C	-25 °C	
Pdh Tj = $-7^{\circ}$ C	8.8 kW	8.8 kW	
$COP Tj = -7^{\circ}C$	3.31	2.21	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = $+2^{\circ}$ C	5.7 kW	5.4 kW	
COP Tj = +2°C	4.64	3.32	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	4.9 kW	5.2 kW	
COP Tj = +7°C	6.68	4.61	
Cdh Tj = +7 °C	0.98	0.98	





- The The The True True	
4.6 kW	4.7 kW
9.1	6.35
0.97	0.97
8.8 kW	8.8 kW
3.31	2.21
8.78 kW	8.78 kW
3.03	2.11
60 °C	60 °C
22 W	22 W
22 W	22 W
22 W	22 W
o w	o w
Electricity	Electricity
1.22 kW	1.22 kW
4171 kWh	5936 kWh
	9.1  0.97  8.8 kW  3.31  8.78 kW  3.03  60 °C  22 W  22 W  22 W  0 W  Electricity  1.22 kW

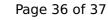
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	220 %	154 %
Prated	10 kW	10 kW
SCOP	5.58	3.93
Tbiv	2 °C	2 °C
TOL	-25 °C	-25 °C
Pdh Tj = +2°C	10 kW	10 kW
COP Tj = +2°C	3.3	1.81
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.4 kW	6.4 kW
$COPTj = +7^{\circ}C$	4.78	3.12
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	4.7 kW	4.4 kW
COP Tj = 12°C	7.2	5.67
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	10 kW	10 kW
COP Tj = Tbiv	3.3	1.81
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	1.81
WTOL	60 °C	60 °C



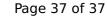


Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	2392 kWh	3401 kWh

## Domestic Hot Water (DHW)

## Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	2.91	
Heating up time	03:10 h:min	
Standby power input	40 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	417	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	135 %	
СОР	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	