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Summary of	Ecodan Power Inverter 9-300D Packaged AA	Reg. No.	037-0036-20		
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 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	
СОР	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

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)	

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 = $+7^{\circ}$ 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
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	1972 kWh	2852 kWh

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
$COP Tj = -7^{\circ}C$	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = $+7^{\circ}$ C	3.2 kW	3.7 kW
$COPTj = +7^{\circ}C$	6.81	5
Cdh Tj = $+7$ °C	0.97	0.98
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



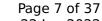


WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

Domestic Hot Water (DHW)

Warmer Climate

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	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	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	

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	
СОР	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

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)

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

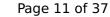




Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1972 kWh	2852 kWh

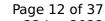
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	40 dB(A)	40 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	

EN 14825		
	Low temperature	Medium temperature





ind mornation was gener	acea by the in Reinn	riik database on 22 jan 202
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
$COP Tj = +7^{\circ}C$	6.81	5
Cdh Tj = +7 °C	0.97	0.98
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



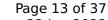


WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

Domestic Hot Water (DHW)

Warmer Climate

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	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	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	



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

Configure model		
Model name PUZ-WM85VAA(-BS) + ERPT30X-*M*D		
Application Heating + DHW + low temp		
Units	ts 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	
СОР	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

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)

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



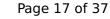


Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2802 kWh

Average Climate

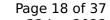
EN 12102-1 Low temperature Medium temperature Sound power level indoor 40 dB(A) 40 dB(A) Sound power level outdoor 58 dB(A) 58 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener	acea by the in Reinn	int database on 22 jan 202
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
$COP Tj = +7^{\circ}C$	6.81	5
Cdh Tj = +7 °C	0.97	0.98
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





This information was generated by the HP KEYMARK database on 22 Jun 2022		
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
РСК	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.32 kW	1.32 kW

3515 kWh

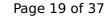
4881 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Warmer Climate

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	





EN 16147	
Declared load profile	XL
Efficiency ηDHW	120 %
СОР	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



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	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
СОР	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

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)

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
$COP Tj = +7^{\circ}C$	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





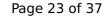
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1997 kWh	2882 kWh

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





This information was general	· · · · · · · · · · · · · · · · · · ·	
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
$COP Tj = -7^{\circ}C$	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	3.2 kW	3.7 kW
$COPTj = +7^{\circ}C$	6.82	5
Cdh Tj = +7 °C	0.97	0.97
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
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

1.32 kW

3632 kWh

1.32 kW

4994 kWh

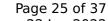
Domestic Hot Water (DHW)

Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

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	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	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	



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
СОР	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

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)

CEN heat pump KEYMARK

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
$COP Tj = +7^{\circ}C$	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
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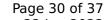
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature





		NK database on 22 juli 202.
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
$COP Tj = -7^{\circ}C$	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	4.6 kW	4.6 kW
$COPTj = +2^{\circ}C$	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = $+7^{\circ}$ C	3.2 kW	3.7 kW
$COPTj = +7^{\circ}C$	6.82	5
Cdh Tj = +7 °C	0.97	0.97
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





This information was generated by the HP KEYMARK database on 22 Jun 2022

60 °C

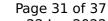
60 °C

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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

Domestic Hot Water (DHW)

Warmer Climate

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	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	120 %	
СОР	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	



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	
СОР	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	

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)

EN 14825		
Low temperature	Medium temperature	
234 %	159 %	
8.5 kW	8.5 kW	
5.91	4.05	
2 °C	2 °C	
-20 °C	-20 °C	
8.5 kW	8.5 kW	
3.51	1.88	
0.99	1	
5.5 kW	5.5 kW	
4.98	3.26	
0.99	0.99	
3.6 kW	3.4 kW	
7.78	5.76	
0.97	0.98	
•• • • • • • • • • • • • • • • • • • •	Low temperature 234 % 8.5 kW 5.91 2 °C -20 °C 8.5 kW 3.51 0.99 5.5 kW 4.98 0.99 3.6 kW 7.78	





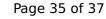
Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2805 kWh

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





This information was gener		int database on 22 jan 202
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
$COP Tj = +7^{\circ}C$	6.81	5
Cdh Tj = +7 °C	0.97	0.97
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





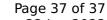
This information was genera	ted by the HP KEYMAF	KEYMARK database on 22 Jun 2022	
	60 °C	60 °C	

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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3514 kWh	4884 kWh

Domestic Hot Water (DHW)

Warmer Climate

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





EN 16147	
Declared load profile	XL
Efficiency ηDHW	120 %
СОР	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