Model: OMNIA ST 3.28

Configure model		
Model name	OMNIA ST 3.2 8	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C	

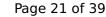
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.40 kW	7.50 kW	
El input	1.63 kW	2.36 kW	
СОР	5.15	3.18	

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

Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	2.22 kW	1.64 kW
Cooling capacity	7.45	8.30
EER	3.35	5.05

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.40 kW	8.40 kW
SEER	5.78	8.91
Pdc Tj = 35°C	7.38 kW	8.37 kW
EER Tj = 35°C	3.39	5.09
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	5.72 kW	6.47 kW
EER Tj = 30°C	4.71	7.02
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.62 kW	4.31 kW
EER Tj = 25°C	6.65	10.67
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.64 kW	1.80 kW
EER Tj = 20°C	8.55	13.61
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
РТО	10 W	10 W
PSB	14 W	14 W
PCK	0 W	o w
Annual energy consumption Qce	768 kWh	566 kWh

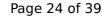
Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	277 %	176 %
Prated	8.10 kW	7.60 kW
SCOP	6.96	4.43
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.56 kW	7.55 kW
COP Tj = +2°C	3.98	2.59
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.22 kW	4.86 kW
COP Tj = +7°C	6.26	3.92
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.62 kW	2.31 kW
COP Tj = 12°C	9.23	5.55
Cdh Tj = +12 °C	0.900	0.900

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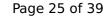


Pdh Tj = Tbiv	5.22 kW	4.86 kW
COP Tj = Tbiv	6.26	3.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.56 kW	7.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.98	2.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	62 °C
Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.54 kW	0.05 kW
Annual energy consumption Qhe	1551 kWh	2259 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	39 dB(A)	39 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825





This information was gener	Low temperature	Medium temperature
ης	170 %	112 %
Prated	7.00 kW	5.80 kW
SCOP	4.28	2.83
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.46 kW	3.86 kW
$COP Tj = -7^{\circ}C$	3.66	2.48
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	2.69 kW	2.21 kW
COP Tj = +2°C	5.20	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	1.65 kW	1.44 kW
$COPTj = +7^{\circ}C$	6.53	4.11
Cdh Tj = $+7$ °C	0.900	0.900
Pdh Tj = 12°C	1.65 kW	1.46 kW
COP Tj = 12°C	7.96	5.92
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.69 kW	4.71 kW
COP Tj = Tbiv	2.83	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.06 kW	2.80 kW
	1	1



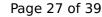


1.95	1.22
0.900	0.900
60 °C	51 °C
14 W	14 W
24 W	24 W
14 W	14 W
o w	o w
Electricity	Electricity
2.94 kW	3.00 kW
3976 kWh	4950 kWh
5.69	4.71
2.83	1.90
0.900	0.900
	0.900 60 °C 14 W 24 W 14 W 0 W Electricity 2.94 kW 3976 kWh 5.69 2.83

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

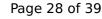
EN 14825





	Low temperature	Medium temperature
η_{s}	205 %	131 %
Prated	8.10 kW	6.60 kW
SCOP	5.16	3.31
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.18 kW	5.84 kW
COP Tj = -7°C	3.35	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.65 kW	3.75 kW
COP Tj = +2°C	5.09	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.90 kW	2.42 kW
$COPTj = +7^{\circ}C$	6.82	4.34
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.63 kW	1.39 kW
COP Tj = 12°C	8.35	5.33
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.18 kW	5.84 kW
COP Tj = Tbiv	3.35	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.44 kW	4.90 kW

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This information was	generated by the I	HP KEYMARK	database on 4 M	ay 2023

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.66 kW	1.70 kW
Annual energy consumption Qhe	3218 kWh	4056 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	148 %	
СОР	3.48	
Heating up time	3:26 h:min	
Standby power input	37.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	215	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	103 %	
СОР	2.42	
Heating up time	4:56 h:min	
Standby power input	53.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	215 l	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	125 %	
СОР	2.92	
Heating up time	4:05 h:min	
Standby power input	44.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	215	