Model: OMNIA ST 3.2 8

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
COP	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
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 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)

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	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

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
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 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

	Low temperature	**Medium temperature**
η_s	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°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°C	1.65 kW	1.44 kW
COP Tj = +7°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

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.95	1.22
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	51 °C
Poff	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.94 kW	3.00 kW
Annual energy consumption Qhe	3976 kWh	4950 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.69	4.71
COP Tj = -15°C (if TOL<-20°C)	2.83	1.90
Cdh Tj = -15 °C	0.900	0.900

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
COP Tj = +7°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

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
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 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 %
COP	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 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	103 %
COP	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 %
COP	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 l