Model: OMNIA ST 3.2 4

Configure model	
Model name	OMNIA ST 3.2 4
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	4.20 kW	4.40 kW
El input	0.82 kW	1.49 kW
COP	5.10	2.95

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	1.36 kW	0.82 kW
Cooling capacity	4.70	4.50
EER	3.45	5.50

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	4.70 kW	4.50 kW
SEER	4.96	7.73
Pdc Tj = 35°C	4.66 kW	4.51 kW
EER Tj = 35°C	3.52	5.54
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	3.66 kW	3.44 kW
EER Tj = 30°C	4.76	7.23
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.21 kW	2.19 kW
EER Tj = 25°C	5.72	8.94
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	0.94 kW	1.13 kW
EER Tj = 20°C	5.72	10.48
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	569 kWh	349 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	255 %	162 %
Prated	5.50 kW	5.00 kW
SCOP	6.41	4.08
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.34 kW	4.83 kW
COP Tj = +2°C	3.94	2.51
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.56 kW	3.22 kW
COP Tj = +7°C	5.92	3.68
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.63 kW	1.47 kW
COP Tj = 12°C	7.91	5.15
Cdh Tj = +12 °C	0.900	0.900

Pdh Tj = Tbiv	3.56 kW	3.22 kW
COP Tj = Tbiv	5.92	3.68
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.34 kW	4.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.94	2.51
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	0.16 kW	0.17 kW
Annual energy consumption Qhe	1146 kWh	1621 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	160 %	102 %
Prated	4.60 kW	3.40 kW
SCOP	4.03	2.58
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	2.75 kW	2.13 kW
COP Tj = -7°C	3.49	2.32
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.77 kW	1.28 kW
COP Tj = +2°C	4.95	2.99
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.17 kW	1.01 kW
COP Tj = +7°C	5.53	3.86
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.43 kW	1.36 kW
COP Tj = 12°C	7.67	6.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.72 kW	2.74 kW
COP Tj = Tbiv	2.57	1.74
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	1.64 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.02
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	1.80 kW	1.76 kW
Annual energy consumption Qhe	2769 kWh	3159 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.72	2.74
COP Tj = -15°C (if TOL<-20°C)	2.57	1.74
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	55 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	191 %	129 %
Prated	5.50 kW	4.40 kW
SCOP	4.81	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.88 kW	3.89 kW
COP Tj = -7°C	3.19	2.17
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.05 kW	2.38 kW
COP Tj = +2°C	4.78	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.93 kW	2.94 kW
COP Tj = +7°C	6.13	4.41
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.48 kW	1.32 kW
COP Tj = 12°C	8.05	5.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.88 kW	3.89 kW
COP Tj = Tbiv	3.19	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.41 kW	3.42 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	1.91
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	1.09 kW	0.98 kW
Annual energy consumption Qhe	2351 kWh	2744 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
COP	3.43
Heating up time	3:52 h:min
Standby power input	34.0 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	102 %
COP	2.40
Heating up time	5:32 h:min
Standby power input	49.0 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	123 %
COP	2.91
Heating up time	4:34 h:min
Standby power input	40.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l