

Model: OMNIA ST 3.2 6

Configure model	
Model name	OMNIA ST 3.2 6
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	6.35 kW	6.00 kW
El input	1.28 kW	2.03 kW
COP	4.95	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

This information was generated by the HP KEYMARK database on 4 May 2023

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.17 kW	1.35 kW
Cooling capacity	6.50	6.50
EER	3.00	4.80

EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

	+7°C/+12°C	+18°C/+23°C
P _{designc}	6.30 kW	6.50 kW
SEER	5.31	8.16
P _{dc} T _j = 35°C	6.35 kW	6.55 kW
EER T _j = 35°C	2.93	4.69
C _{dc} T _j = 35 °C	0.900	0.900
P _{dc} T _j = 30°C	4.76 kW	4.84 kW
EER T _j = 30°C	4.53	7.16
C _{dc} T _j = 30 °C	0.900	0.900
P _{dc} T _j = 25°C	3.02 kW	3.26 kW
EER T _j = 25°C	6.32	9.64
C _{dc} T _j = 25 °C	0.900	0.900
P _{dc} T _j = 20°C	1.39 kW	1.41 kW
EER T _j = 20°C	7.20	11.48
C _{dc} T _j = 20 °C	0.900	0.900
P _{off}	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	713 kWh	478 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 4 May 2023

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	57 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	260 %	165 %
Prated	6.10 kW	5.10 kW
SCOP	6.53	4.16
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.93 kW	5.02 kW
COP Tj = +2°C	3.91	2.48
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.93 kW	3.31 kW
COP Tj = +7°C	5.89	3.67
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.79 kW	1.60 kW
COP Tj = 12°C	8.20	5.29
Cdh Tj = +12 °C	0.900	0.900

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Pdh Tj = Tbiv	3.93 kW	3.31 kW
COP Tj = Tbiv	5.89	3.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.93 kW	5.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.91	2.48
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	0.17 kW	0.08 kW
Annual energy consumption Qhe	1244 kWh	1640 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	57 dB(A)	58 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

	Low temperature	Medium temperature
η_s	165 %	111 %
Prated	5.60 kW	4.30 kW
SCOP	4.16	2.81
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.42 kW	2.70 kW
COP Tj = -7°C	3.59	2.46
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.06 kW	1.60 kW
COP Tj = +2°C	5.21	3.36
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.46 kW	1.02 kW
COP Tj = +7°C	6.24	3.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.44 kW	1.37 kW
COP Tj = 12°C	7.66	6.35
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.59 kW	3.47 kW
COP Tj = Tbiv	2.53	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.09 kW

This information was generated by the HP KEYMARK database on 4 May 2023

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.96	1.13
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	2.12 kW	2.21 kW
Annual energy consumption Qhe	3300 kWh	3681 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.59	3.47
COP Tj = -15°C (if TOL<-20°C)	2.53	1.86
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	57 dB(A)	58 dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 4 May 2023

	Low temperature	Medium temperature
η_s	195 %	138 %
Prated	6.80 kW	5.70 kW
SCOP	4.91	3.48
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.03 kW	5.04 kW
COP Tj = -7°C	3.09	2.17
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.88 kW	3.12 kW
COP Tj = +2°C	4.85	3.51
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.39 kW	2.08 kW
COP Tj = +7°C	6.63	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.39 kW	1.28 kW
COP Tj = 12°C	7.93	5.59
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.03 kW	5.04 kW
COP Tj = Tbiv	3.09	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.36 kW	4.52 kW

This information was generated by the HP KEYMARK database on 4 May 2023

COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.86	1.91
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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	1.44 kW	1.18 kW
Annual energy consumption Qhe	2845 kWh	3345 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	150 %
COP	3.52
Heating up time	3:35 h:min
Standby power input	35.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	104 %
COP	2.45
Heating up time	5:10 h:min
Standby power input	51.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	126 %
COP	2.97
Heating up time	4:16 h:min
Standby power input	42.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l