

## Model: OMNIA ST 3.2 10

<b>Configure model</b>	
Model name	OMNIA ST 3.2 10
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

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.00 kW	9.50 kW
El input	2.02 kW	3.06 kW
COP	4.95	3.10

<b>EN 14511-4</b>	
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

<b>EN 14511-2</b>		
	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
El input	2.52 kW	2.18 kW
Cooling capacity	8.20	9.90
EER	3.25	4.55

**EN 14825**

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

	<b>+7°C/+12°C</b>	<b>+18°C/+23°C</b>
P <sub>designc</sub>	8.70 kW	10.00 kW
SEER	5.93	8.73
P <sub>dc Tj = 35°C</sub>	8.73 kW	10.01 kW
EER Tj = 35°C	3.21	4.64
C <sub>dc Tj = 35 °C</sub>	0.900	0.900
P <sub>dc Tj = 30°C</sub>	6.68 kW	7.71 kW
EER Tj = 30°C	4.47	6.45
C <sub>dc Tj = 30 °C</sub>	0.900	0.900
P <sub>dc Tj = 25°C</sub>	4.26 kW	5.03 kW
EER Tj = 25°C	7.02	10.36
C <sub>dc Tj = 25 °C</sub>	0.900	0.900
P <sub>dc Tj = 20°C</sub>	1.94 kW	2.32 kW
EER Tj = 20°C	9.54	14.98
C <sub>dc Tj = 20 °C</sub>	0.900	0.900
P <sub>off</sub>	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Q <sub>ce</sub>	880 kWh	687 kWh

## Warmer Climate

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

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	281 %	180 %
Prated	8.60 kW	8.60 kW
SCOP	7.06	4.53
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.44 kW	8.06 kW
COP Tj = +2°C	3.84	2.59
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.52 kW	5.54 kW
COP Tj = +7°C	6.18	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.62 kW	2.53 kW
COP Tj = 12°C	9.04	5.82
Cdh Tj = +12 °C	0.900	0.900

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Pdh Tj = Tbiv	5.52 kW	5.54 kW
COP Tj = Tbiv	6.18	4.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.44 kW	8.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.84	2.61
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	0.45 kW
Annual energy consumption Qhe	1617 kWh	2516 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

<b>EN 14825</b>		
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	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	170 %	116 %
Prated	7.70 kW	6.70 kW
SCOP	4.28	2.93
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.83 kW	4.27 kW
COP Tj = -7°C	3.60	2.54
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.94 kW	2.57 kW
COP Tj = +2°C	5.26	3.51
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.92 kW	1.65 kW
COP Tj = +7°C	7.08	4.37
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.65 kW	1.47 kW
COP Tj = 12°C	7.96	5.96
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.32 kW	5.47 kW
COP Tj = Tbiv	2.64	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.62 kW	2.80 kW

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

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	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	3.08 kW	3.91 kW
Annual energy consumption Qhe	4423 kWh	5540 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.32	5.47
COP Tj = -15°C (if TOL<-20°C)	2.64	2.00
Cdh Tj = -15 °C	0.900	0.900

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

## **EN 14825**

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	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	204 %	136 %
Prated	9.20 kW	7.70 kW
SCOP	5.13	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.10 kW	6.78 kW
COP Tj = -7°C	3.23	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.18 kW	4.28 kW
COP Tj = +2°C	5.01	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.32 kW	2.77 kW
COP Tj = +7°C	7.08	4.52
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.65 kW	1.58 kW
COP Tj = 12°C	8.58	5.68
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.10 kW	6.78 kW
COP Tj = Tbiv	3.23	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	5.38 kW

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

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.96	1.83
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	2.32 kW
Annual energy consumption Qhe	3644 kWh	4539 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	150 %
COP	3.50
Heating up time	3:19 h:min
Standby power input	39.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	104 %
COP	2.44
Heating up time	4:46 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l

## Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	126 %
COP	2.95
Heating up time	3:57 h:min
Standby power input	46.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	215 l