

Subtype Ferroli Omnia S 3.2 12-14-16-12T-14T-16T - Omnia ST 3.2 12-14-16-12T-14T-16T

Certificate Holder	Ferroli S.p.A.
Address	Via Ritonda 78/A
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City	San Bonifacio (VR)
Country	IT
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Ferroli Omnia S 3.2 12-14-16-12T-14T-16T - Omnia ST 3.2 12-14-16-12T-14T-16T
Registration number	011-1W0596
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	03.05.2023
Testing basis	HP KEYMARK certification scheme rules V11



Model OMNIA S 3.2 12

Model name	OMNIA S 3.2 12
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.10 kW	11.90 kW
El input	2.44 kW	3.90 kW
COP	4.95	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.18 kW	3.04 kW
Cooling capacity	11.50	12.00
EER	2.75	3.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	135 %
Prated	12.00 kW	11.60 kW
SCOP	4.76	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.24 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.69 kW	6.52 kW
COP Tj = +2°C	4.65	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.62	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.29 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.24 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.74 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
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	1.26 kW	2.50 kW
Annual energy consumption Qhe	5153 kWh	6927 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	118 %
Prated	11.40 kW	10.30 kW
SCOP	4.03	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.05 kW	6.63 kW
COP Tj = -7°C	3.48	2.63
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.67 kW	4.06 kW

COP Tj = +2°C	4.96	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.14 kW	2.78 kW
COP Tj = +7°C	6.10	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.87	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.28 kW	8.41 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.01 kW	4.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.98	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	4.39 kW	6.11 kW
Annual energy consumption Qhe	6871 kWh	8419 kWh
Pdh Tj = -15°C (if TOL)	9.28	8.41
COP Tj = -15°C (if TOL)	2.59	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	174 %
Prated	11.10 kW	12.50 kW
SCOP	6.43	4.38
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.09 kW	12.07 kW
COP Tj = +2°C	3.59	2.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.14 kW	8.04 kW
COP Tj = +7°C	5.87	3.86
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.55 kW	3.75 kW
COP Tj = 12°C	7.94	5.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.14 kW	8.04 kW
COP Tj = Tbiv	5.87	3.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.09 kW	12.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.59	2.31
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	0.01 kW	0.43 kW
Annual energy consumption Qhe	2296 kWh	3776 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.30 kW	11.80 kW
SEER	4.83	7.06
Pdc Tj = 35°C	11.31 kW	11.77 kW
EER Tj = 35°C	2.61	3.87
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	8.76 kW	9.21 kW
EER Tj = 30°C	3.93	5.50
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.81 kW	5.74 kW
EER Tj = 25°C	5.73	8.66
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.63 kW	3.33 kW
EER Tj = 20°C	6.75	10.07
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	1404 kWh	1004 kWh



Model OMNIA S 3.2 14

Model name	OMNIA S 3.2 14
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	14.50 kW	13.80 kW
El input	3.15 kW	4.68 kW
COP	4.60	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.96 kW	3.49 kW
Cooling capacity	12.40	12.90
EER	2.50	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	185 %	135 %
Prated	13.70 kW	12.08 kW
SCOP	4.66	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.14 kW	10.68 kW
COP Tj = -7°C	2.79	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.94 kW	6.86 kW
COP Tj = +2°C	4.52	3.43
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.20 kW	4.63 kW
COP Tj = +7°C	6.68	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.75 kW	3.31 kW
COP Tj = 12°C	8.52	6.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.14 kW	10.68 kW
COP Tj = Tbiv	2.79	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.47 kW	9.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.76
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	2.23 kW	2.89 kW
Annual energy consumption Qhe	6013 kWh	7202 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	119 %
Prated	12.60 kW	11.00 kW
SCOP	4.03	3.01
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.96 kW	6.89 kW
COP Tj = -7°C	3.44	2.66
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.05 kW	4.32 kW

COP Tj = +2°C	4.92	3.66
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.15 kW	3.06 kW
COP Tj = +7°C	6.11	4.72
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.82	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.31 kW	8.94 kW
COP Tj = Tbiv	2.53	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.92	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	5.03 kW	6.80 kW
Annual energy consumption Qhe	7667 kWh	8866 kWh
Pdh Tj = -15°C (if TOL)	10.31	8.94
COP Tj = -15°C (if TOL)	2.53	1.79
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	260 %	177 %
Prated	12.10 kW	13.70 kW
SCOP	6.53	4.46
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.04 kW	13.04 kW
COP Tj = +2°C	3.44	2.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.78 kW	8.83 kW
COP Tj = +7°C	5.84	3.91
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.75 kW	4.08 kW
COP Tj = 12°C	8.25	5.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	8.83 kW
COP Tj = Tbiv	5.84	3.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.04 kW	13.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.44	2.20
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	0.06 kW	0.66 kW
Annual energy consumption Qhe	2462 kWh	4088 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.20 kW	13.30 kW
SEER	4.81	6.86
Pdc Tj = 35°C	12.19 kW	13.30 kW
EER Tj = 35°C	2.46	3.47
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.41 kW	10.20 kW
EER Tj = 30°C	3.85	5.26
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.16 kW	6.57 kW
EER Tj = 25°C	5.80	8.45
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.63 kW	3.33 kW
EER Tj = 20°C	6.74	10.07
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	1523 kWh	1164 kWh



Model OMNIA S 3.2 16

Model name	OMNIA S 3.2 16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.90 kW	16.00 kW
El input	3.53 kW	5.61 kW
COP	4.50	2.85

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	5.60 kW	3.77 kW
Cooling capacity	14.00	13.60
EER	2.50	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	182 %	133 %
Prated	15.20 kW	13.00 kW
SCOP	4.58	3.36
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.56 kW	7.18 kW
COP Tj = +2°C	4.41	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.67 kW
COP Tj = +7°C	6.56	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.31 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
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	2.68 kW	2.67 kW
Annual energy consumption Qhe	6805 kWh	7895 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	158 %	122 %
Prated	13.70 kW	11.80 kW
SCOP	3.98	3.08
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.31 kW	7.64 kW
COP Tj = -7°C	3.37	2.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.26 kW	4.42 kW

COP Tj = +2°C	4.86	3.79
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.62 kW	2.97 kW
COP Tj = +7°C	6.49	4.81
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.34 kW	3.43 kW
COP Tj = 12°C	7.40	6.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.22 kW	9.61 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.88 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.23
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	4.82 kW	6.59 kW
Annual energy consumption Qhe	8431 kWh	9309 kWh
Pdh Tj = -15°C (if TOL)	11.22	9.61
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	249 %	176 %
Prated	13.10 kW	13.80 kW
SCOP	6.26	4.43
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.09 kW	13.38 kW
COP Tj = +2°C	3.35	2.29
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.41 kW	8.86 kW
COP Tj = +7°C	5.36	3.84
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.87 kW	4.06 kW
COP Tj = 12°C	8.11	5.86
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.41 kW	8.86 kW
COP Tj = Tbiv	5.36	3.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.09 kW	13.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.35	2.29
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	0.01 kW	0.42 kW
Annual energy consumption Qhe	2786 kWh	4112 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	14.30 kW	15.40 kW
SEER	4.63	6.71
Pdc Tj = 35°C	14.31 kW	15.40 kW
EER Tj = 35°C	2.47	3.50
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	10.68 kW	11.42 kW
EER Tj = 30°C	3.63	5.14
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.76 kW	7.27 kW
EER Tj = 25°C	5.27	7.83
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.41 kW	3.40 kW
EER Tj = 20°C	7.29	10.35
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	1853 kWh	1378 kWh



Model OMNIA S 3.2 12T

Model name	OMNIA S 3.2 12T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.10 kW	11.90 kW
El input	2.44 kW	3.90 kW
COP	4.95	3.05

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.18 kW	3.04 kW
Cooling capacity	11.50	12.00
EER	2.75	3.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	135 %
Prated	12.00 kW	11.60 kW
SCOP	4.76	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.24 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.69 kW	6.52 kW
COP Tj = +2°C	4.65	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.62	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.29 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.24 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.74 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
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	1.26 kW	2.50 kW
Annual energy consumption Qhe	5153 kWh	6927 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	118 %
Prated	11.40 kW	10.30 kW
SCOP	4.03	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.05 kW	6.63 kW
COP Tj = -7°C	3.48	2.63
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.67 kW	4.06 kW

COP Tj = +2°C	4.96	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.14 kW	2.78 kW
COP Tj = +7°C	6.10	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.87	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.28 kW	8.41 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.01 kW	4.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.98	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	4.39 kW	6.11 kW
Annual energy consumption Qhe	6871 kWh	8419 kWh
Pdh Tj = -15°C (if TOL)	9.28	8.41
COP Tj = -15°C (if TOL)	2.59	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	174 %
Prated	11.10 kW	12.50 kW
SCOP	6.43	4.38
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.09 kW	12.07 kW
COP Tj = +2°C	3.59	2.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.14 kW	8.04 kW
COP Tj = +7°C	5.87	3.86
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.55 kW	3.75 kW
COP Tj = 12°C	7.94	5.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.14 kW	8.04 kW
COP Tj = Tbiv	5.87	3.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.09 kW	12.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.59	2.31
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	0.01 kW	0.43 kW
Annual energy consumption Qhe	2296 kWh	3776 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	11.30 kW	11.80 kW
SEER	4.83	7.06
Pdc Tj = 35°C	11.31 kW	11.77 kW
EER Tj = 35°C	2.61	3.87
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	8.76 kW	9.21 kW
EER Tj = 30°C	3.93	5.50
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.81 kW	5.74 kW
EER Tj = 25°C	5.73	8.66
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.63 kW	3.33 kW
EER Tj = 20°C	6.75	10.07
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	1404 kWh	1004 kWh



Model OMNIA S 3.2 14T

Model name	OMNIA S 3.2 14T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	14.50 kW	13.80 kW
El input	3.15 kW	4.68 kW
COP	4.60	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.96 kW	3.49 kW
Cooling capacity	12.40	12.90
EER	2.50	3.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	185 %	135 %
Prated	13.70 kW	12.08 kW
SCOP	4.66	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.14 kW	10.68 kW
COP Tj = -7°C	2.79	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.94 kW	6.86 kW
COP Tj = +2°C	4.52	3.43
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.20 kW	4.63 kW
COP Tj = +7°C	6.68	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.75 kW	3.31 kW
COP Tj = 12°C	8.52	6.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.14 kW	10.68 kW
COP Tj = Tbiv	2.79	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.47 kW	9.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.76
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	2.23 kW	2.89 kW
Annual energy consumption Qhe	6013 kWh	7202 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	119 %
Prated	12.60 kW	11.00 kW
SCOP	4.03	3.01
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.96 kW	6.89 kW
COP Tj = -7°C	3.44	2.66
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.05 kW	4.32 kW

COP Tj = +2°C	4.92	3.66
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.15 kW	3.06 kW
COP Tj = +7°C	6.11	4.72
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.82	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.31 kW	8.94 kW
COP Tj = Tbiv	2.53	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.92	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	5.03 kW	6.80 kW
Annual energy consumption Qhe	7667 kWh	8866 kWh
Pdh Tj = -15°C (if TOL)	10.31	8.94
COP Tj = -15°C (if TOL)	2.53	1.79
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	260 %	177 %
Prated	12.10 kW	13.70 kW
SCOP	6.53	4.46
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.04 kW	13.04 kW
COP Tj = +2°C	3.44	2.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.78 kW	8.83 kW
COP Tj = +7°C	5.84	3.91
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.75 kW	4.08 kW
COP Tj = 12°C	8.25	5.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	8.83 kW
COP Tj = Tbiv	5.84	3.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.04 kW	13.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.44	2.20
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	0.06 kW	0.66 kW
Annual energy consumption Qhe	2462 kWh	4088 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.20 kW	13.30 kW
SEER	4.81	6.86
Pdc Tj = 35°C	12.19 kW	13.30 kW
EER Tj = 35°C	2.46	3.47
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.41 kW	10.20 kW
EER Tj = 30°C	3.85	5.26
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.16 kW	6.57 kW
EER Tj = 25°C	5.80	8.45
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.63 kW	3.33 kW
EER Tj = 20°C	6.74	10.07
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	1523 kWh	1164 kWh



Model OMNIA S 3.2 16T

Model name	OMNIA S 3.2 16T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.90 kW	16.00 kW
El input	3.53 kW	5.61 kW
COP	4.50	2.85

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	5.60 kW	3.77 kW
Cooling capacity	14.00	13.60
EER	2.50	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	182 %	133 %
Prated	15.20 kW	13.00 kW
SCOP	4.58	3.36
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.56 kW	7.18 kW
COP Tj = +2°C	4.41	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.67 kW
COP Tj = +7°C	6.56	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.31 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
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	2.68 kW	2.67 kW
Annual energy consumption Qhe	6805 kWh	7895 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	158 %	122 %
Prated	13.70 kW	11.80 kW
SCOP	3.98	3.08
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.31 kW	7.64 kW
COP Tj = -7°C	3.37	2.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.26 kW	4.42 kW

COP Tj = +2°C	4.86	3.79
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.62 kW	2.97 kW
COP Tj = +7°C	6.49	4.81
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.34 kW	3.43 kW
COP Tj = 12°C	7.40	6.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.22 kW	9.61 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.88 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.23
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	4.82 kW	6.59 kW
Annual energy consumption Qhe	8431 kWh	9309 kWh
Pdh Tj = -15°C (if TOL)	11.22	9.61
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	249 %	176 %
Prated	13.10 kW	13.80 kW
SCOP	6.26	4.43
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.09 kW	13.38 kW
COP Tj = +2°C	3.35	2.29
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.41 kW	8.86 kW
COP Tj = +7°C	5.36	3.84
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	3.87 kW	4.06 kW
COP Tj = 12°C	8.11	5.86
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.41 kW	8.86 kW
COP Tj = Tbiv	5.36	3.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.09 kW	13.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.35	2.29
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	0.01 kW	0.42 kW
Annual energy consumption Qhe	2786 kWh	4112 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	14.30 kW	15.40 kW
SEER	4.63	6.71
Pdc Tj = 35°C	14.31 kW	15.40 kW
EER Tj = 35°C	2.47	3.50
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	10.68 kW	11.42 kW
EER Tj = 30°C	3.63	5.14
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.76 kW	7.27 kW
EER Tj = 25°C	5.27	7.83
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.41 kW	3.40 kW
EER Tj = 20°C	7.29	10.35
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	1853 kWh	1378 kWh



Model OMNIA ST 3.2 12

Model name	OMNIA ST 3.2 12
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.12
Heating up time	4:18 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	5:15 h:min
Standby power input	69.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	150 %
COP	3.56
Heating up time	3:46 h:min
Standby power input	49.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed



Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	12.10 kW	11.90 kW
El input	2.44 kW	3.90 kW
COP	4.95	3.05
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	4.18 kW	3.04 kW
Cooling capacity	11.50	12.00
EER	2.75	3.95
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	189 %	135 %
Prated	12.00 kW	11.60 kW
SCOP	4.76	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.24 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.69 kW	6.52 kW
COP Tj = +2°C	4.65	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.62	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.29 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.24 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.74 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79

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	1.26 kW	2.50 kW
Annual energy consumption Qhe	5153 kWh	6927 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	118 %
Prated	11.40 kW	10.30 kW
SCOP	4.03	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.05 kW	6.63 kW
COP Tj = -7°C	3.48	2.63
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.67 kW	4.06 kW
COP Tj = +2°C	4.96	3.60
Cdh Tj = + 2 °C	0.900	0.900
Pdh Tj = +7°C	3.14 kW	2.78 kW
COP Tj = +7°C	6.10	4.54
Cdh Tj = + 7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.87	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.28 kW	8.41 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.01 kW	4.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.98	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	4.39 kW	6.11 kW
Annual energy consumption Qhe	6871 kWh	8419 kWh
Pdh Tj = -15°C (if TOL)	9.28	8.41
COP Tj = -15°C (if TOL)	2.59	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	256 %	174 %
Prated	11.10 kW	12.50 kW
SCOP	6.43	4.38
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.09 kW	12.07 kW
COP Tj = +2°C	3.59	2.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.14 kW	8.04 kW
COP Tj = +7°C	5.87	3.86
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.55 kW	3.75 kW
COP Tj = 12°C	7.94	5.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.14 kW	8.04 kW
COP Tj = Tbiv	5.87	3.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.09 kW	12.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.59	2.31
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	0.01 kW	0.43 kW



Annual energy consumption Qhe	2296 kWh	3776 kWh
EN 14825 Cooling		
Pdesignc	+7°C/+12°C	+18°C/+23°C
SEER	11.30 kW	11.80 kW
Pdc Tj = 35°C	4.83	7.06
EER Tj = 35°C	11.31 kW	11.77 kW
Cdc Tj = 35 °C	2.61	3.87
Pdc Tj = 30°C	0.900	0.900
EER Tj = 30°C	8.76 kW	9.21 kW
Cdc Tj = 30 °C	3.93	5.50
Pdc Tj = 25°C	0.900	0.900
EER Tj = 25°C	5.73	8.66
Cdc Tj = 25 °C	5.81 kW	5.74 kW
Pdc Tj = 20°C	0.900	3.33 kW
EER Tj = 20°C	2.63 kW	10.07
Cdc Tj = 20 °C	6.75	0.900
Poff	0.900	14 W
PTO	0 W	14 W
PSB	14 W	10 W
PCK	0 W	14 W
Annual energy consumption Qce	1404 kWh	0 W
		1004 kWh



Model OMNIA ST 3.2 14

Model name	OMNIA ST 3.2 14
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	129 %
COP	3.06
Heating up time	4:03 h:min
Standby power input	59.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.51
Heating up time	4:56 h:min
Standby power input	72.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	148 %
COP	3.51
Heating up time	3:32 h:min
Standby power input	51.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed



Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	14.50 kW	13.80 kW
El input	3.15 kW	4.68 kW
COP	4.60	2.95
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	4.96 kW	3.49 kW
Cooling capacity	12.40	12.90
EER	2.50	3.70
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	185 %	135 %
Prated	13.70 kW	12.08 kW
SCOP	4.66	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.14 kW	10.68 kW
COP Tj = -7°C	2.79	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.94 kW	6.86 kW
COP Tj = +2°C	4.52	3.43
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.20 kW	4.63 kW
COP Tj = +7°C	6.68	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.75 kW	3.31 kW
COP Tj = 12°C	8.52	6.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.14 kW	10.68 kW
COP Tj = Tbiv	2.79	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.47 kW	9.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.76

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	2.23 kW	2.89 kW
Annual energy consumption Qhe	6013 kWh	7202 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	119 %
Prated	12.60 kW	11.00 kW
SCOP	4.03	3.01
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.96 kW	6.89 kW
COP Tj = -7°C	3.44	2.66
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.05 kW	4.32 kW
COP Tj = +2°C	4.92	3.66
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.15 kW	3.06 kW
COP Tj = +7°C	6.11	4.72
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.82	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.31 kW	8.94 kW
COP Tj = Tbiv	2.53	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.92	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	5.03 kW	6.80 kW
Annual energy consumption Qhe	7667 kWh	8866 kWh
Pdh Tj = -15°C (if TOL)	10.31	8.94
COP Tj = -15°C (if TOL)	2.53	1.79
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	260 %	177 %
Prated	12.10 kW	13.70 kW
SCOP	6.53	4.46
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.04 kW	13.04 kW
COP Tj = +2°C	3.44	2.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.78 kW	8.83 kW
COP Tj = +7°C	5.84	3.91
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.75 kW	4.08 kW
COP Tj = 12°C	8.25	5.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	8.83 kW
COP Tj = Tbiv	5.84	3.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.04 kW	13.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.44	2.20
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	0.06 kW	0.66 kW



Annual energy consumption Qhe	2462 kWh	4088 kWh
EN 14825 Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.20 kW	13.30 kW
SEER	4.81	6.86
Pdc Tj = 35°C	12.19 kW	13.30 kW
EER Tj = 35°C	2.46	3.47
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.41 kW	10.20 kW
EER Tj = 30°C	3.85	5.26
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.16 kW	6.57 kW
EER Tj = 25°C	5.80	8.45
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.63 kW	3.33 kW
EER Tj = 20°C	6.74	10.07
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	1523 kWh	1164 kWh



Model OMNIA ST 3.2 16

Model name	OMNIA ST 3.2 16
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.09
Heating up time	3:52 h:min
Standby power input	62.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.53
Heating up time	4:43 h:min
Standby power input	76.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	149 %
COP	3.53
Heating up time	3:23 h:min
Standby power input	54.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed



Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	15.90 kW	16.00 kW
El input	3.53 kW	5.61 kW
COP	4.50	2.85
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	5.60 kW	3.77 kW
Cooling capacity	14.00	13.60
EER	2.50	3.61
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	182 %	133 %
Prated	15.20 kW	13.00 kW
SCOP	4.58	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.56 kW	7.18 kW
COP Tj = +2°C	4.41	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.67 kW
COP Tj = +7°C	6.56	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.31 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80



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	2.68 kW	2.67 kW
Annual energy consumption Qhe	6805 kWh	7895 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	158 %	122 %
Prated	13.70 kW	11.80 kW
SCOP	3.98	3.08
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.31 kW	7.64 kW
COP Tj = -7°C	3.37	2.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.26 kW	4.42 kW
COP Tj = +2°C	4.86	3.79
Cdh Tj = + 2 °C	0.900	0.900
Pdh Tj = +7°C	3.62 kW	2.97 kW
COP Tj = +7°C	6.49	4.81
Cdh Tj = + 7 °C	0.900	0.900
Pdh Tj = 12°C	3.34 kW	3.43 kW
COP Tj = 12°C	7.40	6.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.22 kW	9.61 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.88 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.23
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	4.82 kW	6.59 kW
Annual energy consumption Qhe	8431 kWh	9309 kWh
Pdh Tj = -15°C (if TOL)	11.22	9.61
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	249 %	176 %
Prated	13.10 kW	13.80 kW
SCOP	6.26	4.43
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.09 kW	13.38 kW
COP Tj = +2°C	3.35	2.29
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.41 kW	8.86 kW
COP Tj = +7°C	5.36	3.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.87 kW	4.06 kW
COP Tj = 12°C	8.11	5.86
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.41 kW	8.86 kW
COP Tj = Tbiv	5.36	3.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.09 kW	13.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.35	2.29
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	0.01 kW	0.42 kW



Annual energy consumption Qhe	2786 kWh	4112 kWh
EN 14825 Cooling		
Pdesignc	+7°C/+12°C	+18°C/+23°C
SEER	14.30 kW	15.40 kW
Pdc Tj = 35°C	4.63	6.71
EER Tj = 35°C	14.31 kW	15.40 kW
Cdc Tj = 35 °C	2.47	3.50
Pdc Tj = 30°C	0.900	0.900
EER Tj = 30°C	10.68 kW	11.42 kW
Cdc Tj = 30 °C	3.63	5.14
Pdc Tj = 25°C	0.900	0.900
EER Tj = 25°C	6.76 kW	7.27 kW
Cdc Tj = 25 °C	5.27	7.83
Pdc Tj = 20°C	0.900	0.900
EER Tj = 20°C	3.41 kW	3.40 kW
Cdc Tj = 20 °C	7.29	10.35
Poff	0.900	0.900
PTO	14 W	14 W
PSB	10 W	10 W
PCK	14 W	14 W
Annual energy consumption Qce	0 W	0 W
	1853 kWh	1378 kWh



Model OMNIA ST 3.2 12T

Model name	OMNIA ST 3.2 12T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.12
Heating up time	4:18 h:min
Standby power input	56.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	5:15 h:min
Standby power input	69.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	150 %
COP	3.56
Heating up time	3:46 h:min
Standby power input	49.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed



Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	12.10 kW	11.90 kW
El input	2.44 kW	3.90 kW
COP	4.95	3.05
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	4.18 kW	3.04 kW
Cooling capacity	11.50	12.00
EER	2.75	3.95
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	189 %	135 %
Prated	12.00 kW	11.60 kW
SCOP	4.76	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.24 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.69 kW	6.52 kW
COP Tj = +2°C	4.65	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.62	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.29 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.24 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.74 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79

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	1.26 kW	2.50 kW
Annual energy consumption Qhe	5153 kWh	6927 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	118 %
Prated	11.40 kW	10.30 kW
SCOP	4.03	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.05 kW	6.63 kW
COP Tj = -7°C	3.48	2.63
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.67 kW	4.06 kW
COP Tj = +2°C	4.96	3.60
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.14 kW	2.78 kW
COP Tj = +7°C	6.10	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.87	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.28 kW	8.41 kW
COP Tj = Tbiv	2.59	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.01 kW	4.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.98	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	4.39 kW	6.11 kW
Annual energy consumption Qhe	6871 kWh	8419 kWh
Pdh Tj = -15°C (if TOL)	9.28	8.41
COP Tj = -15°C (if TOL)	2.59	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	256 %	174 %
Prated	11.10 kW	12.50 kW
SCOP	6.43	4.38
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.09 kW	12.07 kW
COP Tj = +2°C	3.59	2.31
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.14 kW	8.04 kW
COP Tj = +7°C	5.87	3.86
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.55 kW	3.75 kW
COP Tj = 12°C	7.94	5.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.14 kW	8.04 kW
COP Tj = Tbiv	5.87	3.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.09 kW	12.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.59	2.31
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	0.01 kW	0.43 kW



Annual energy consumption Qhe	2296 kWh	3776 kWh
EN 14825 Cooling		
Pdesignc	+7°C/+12°C	+18°C/+23°C
SEER	11.30 kW	11.80 kW
Pdc Tj = 35°C	4.83	7.06
EER Tj = 35°C	11.31 kW	11.77 kW
Cdc Tj = 35 °C	2.61	3.87
Pdc Tj = 30°C	0.900	0.900
EER Tj = 30°C	8.76 kW	9.21 kW
Cdc Tj = 30 °C	3.93	5.50
Pdc Tj = 25°C	0.900	0.900
EER Tj = 25°C	5.73	8.66
Cdc Tj = 25 °C	5.81 kW	5.74 kW
Pdc Tj = 20°C	0.900	3.33 kW
EER Tj = 20°C	2.63 kW	10.07
Cdc Tj = 20 °C	6.75	0.900
Poff	0.900	14 W
PTO	0 W	14 W
PSB	0 W	10 W
PCK	1404 kWh	0 W
Annual energy consumption Qce	1404 kWh	1004 kWh



Model OMNIA ST 3.2 14T

Model name	OMNIA ST 3.2 14T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	129 %
COP	3.06
Heating up time	4:03 h:min
Standby power input	59.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.51
Heating up time	4:56 h:min
Standby power input	72.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	148 %
COP	3.51
Heating up time	3:32 h:min
Standby power input	51.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed



Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	14.50 kW	13.80 kW
El input	3.15 kW	4.68 kW
COP	4.60	2.95
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	4.96 kW	3.49 kW
Cooling capacity	12.40	12.90
EER	2.50	3.70
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	185 %	135 %
Prated	13.70 kW	12.08 kW
SCOP	4.66	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.14 kW	10.68 kW
COP Tj = -7°C	2.79	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.94 kW	6.86 kW
COP Tj = +2°C	4.52	3.43
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.20 kW	4.63 kW
COP Tj = +7°C	6.68	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.75 kW	3.31 kW
COP Tj = 12°C	8.52	6.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.14 kW	10.68 kW
COP Tj = Tbiv	2.79	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.47 kW	9.19 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.76

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	2.23 kW	2.89 kW
Annual energy consumption Qhe	6013 kWh	7202 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	119 %
Prated	12.60 kW	11.00 kW
SCOP	4.03	3.01
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.96 kW	6.89 kW
COP Tj = -7°C	3.44	2.66
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.05 kW	4.32 kW
COP Tj = +2°C	4.92	3.66
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.15 kW	3.06 kW
COP Tj = +7°C	6.11	4.72
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.57 kW	3.33 kW
COP Tj = 12°C	7.82	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.31 kW	8.94 kW
COP Tj = Tbiv	2.53	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.92	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	5.03 kW	6.80 kW
Annual energy consumption Qhe	7667 kWh	8866 kWh
Pdh Tj = -15°C (if TOL)	10.31	8.94
COP Tj = -15°C (if TOL)	2.53	1.79
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	260 %	177 %
Prated	12.10 kW	13.70 kW
SCOP	6.53	4.46
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.04 kW	13.04 kW
COP Tj = +2°C	3.44	2.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.78 kW	8.83 kW
COP Tj = +7°C	5.84	3.91
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.75 kW	4.08 kW
COP Tj = 12°C	8.25	5.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.78 kW	8.83 kW
COP Tj = Tbiv	5.84	3.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.04 kW	13.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.44	2.20
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	0.06 kW	0.66 kW



Annual energy consumption Qhe	2462 kWh	4088 kWh
EN 14825 Cooling		
Pdesignc	+7°C/+12°C	+18°C/+23°C
SEER	12.20 kW	13.30 kW
Pdc Tj = 35°C	4.81	6.86
EER Tj = 35°C	12.19 kW	13.30 kW
Cdc Tj = 35 °C	2.46	3.47
Pdc Tj = 30°C	0.900	0.900
EER Tj = 30°C	9.41 kW	10.20 kW
Cdc Tj = 30 °C	3.85	5.26
Pdc Tj = 25°C	0.900	0.900
EER Tj = 25°C	6.16 kW	6.57 kW
Cdc Tj = 25 °C	5.80	8.45
Pdc Tj = 20°C	0.900	0.900
EER Tj = 20°C	2.63 kW	3.33 kW
Cdc Tj = 20 °C	6.74	10.07
Poff	0.900	0.900
PTO	14 W	14 W
PSB	10 W	10 W
PCK	14 W	14 W
Annual energy consumption Qce	0 W	0 W
	1523 kWh	1164 kWh



Model OMNIA ST 3.2 16T

Model name	OMNIA ST 3.2 16T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.09
Heating up time	3:52 h:min
Standby power input	62.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.53
Heating up time	4:43 h:min
Standby power input	76.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	149 %
COP	3.53
Heating up time	3:23 h:min
Standby power input	54.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	270 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed



Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	15.90 kW	16.00 kW
El input	3.53 kW	5.61 kW
COP	4.50	2.85
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	5.60 kW	3.77 kW
Cooling capacity	14.00	13.60
EER	2.50	3.61
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	182 %	133 %
Prated	15.20 kW	13.00 kW
SCOP	4.58	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.56 kW	7.18 kW
COP Tj = +2°C	4.41	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.67 kW
COP Tj = +7°C	6.56	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.31 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80



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	2.68 kW	2.67 kW
Annual energy consumption Qhe	6805 kWh	7895 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	158 %	122 %
Prated	13.70 kW	11.80 kW
SCOP	3.98	3.08
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.31 kW	7.64 kW
COP Tj = -7°C	3.37	2.65
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.26 kW	4.42 kW
COP Tj = +2°C	4.86	3.79
Cdh Tj = + 2 °C	0.900	0.900
Pdh Tj = +7°C	3.62 kW	2.97 kW
COP Tj = +7°C	6.49	4.81
Cdh Tj = + 7 °C	0.900	0.900
Pdh Tj = 12°C	3.34 kW	3.43 kW
COP Tj = 12°C	7.40	6.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.22 kW	9.61 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.88 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.23
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	4.82 kW	6.59 kW
Annual energy consumption Qhe	8431 kWh	9309 kWh
Pdh Tj = -15°C (if TOL)	11.22	9.61
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	249 %	176 %
Prated	13.10 kW	13.80 kW
SCOP	6.26	4.43
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.09 kW	13.38 kW
COP Tj = +2°C	3.35	2.29
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.41 kW	8.86 kW
COP Tj = +7°C	5.36	3.84
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.87 kW	4.06 kW
COP Tj = 12°C	8.11	5.86
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.41 kW	8.86 kW
COP Tj = Tbiv	5.36	3.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.09 kW	13.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.35	2.29
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	0.01 kW	0.42 kW



Annual energy consumption Qhe	2786 kWh	4112 kWh
EN 14825 Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	14.30 kW	15.40 kW
SEER	4.63	6.71
Pdc Tj = 35°C	14.31 kW	15.40 kW
EER Tj = 35°C	2.47	3.50
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	10.68 kW	11.42 kW
EER Tj = 30°C	3.63	5.14
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	6.76 kW	7.27 kW
EER Tj = 25°C	5.27	7.83
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	3.41 kW	3.40 kW
EER Tj = 20°C	7.29	10.35
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	1853 kWh	1378 kWh