

## Subtype Beretta TOWER GREEN T 14T AIO

Certificate Holder	Riello S.p.A.
Address	Via Ing. Pilade Riello 7
ZIP	37045
City	Legnago (VR)
Country	IT
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Beretta TOWER GREEN T 14T AIO
Registration number	011-1W0732
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	24.10.2023
Testing basis	HP KEYMARK certification scheme rules V12

## Model HP ODU AGILE 14T / HP IDU TOWER M31AL

Model name	HP ODU AGILE 14T / HP IDU TOWER M31AL
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 $\eta_{DHW}$	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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 kW	15.5 kW
El input	3.04 kW	5.6 kW
COP	4.6	2.77

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.57	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
COP Tj = +7°C	6.27	4.76
Cdh Tj = +7 °C	0.92	0.93
Pdh Tj = 12°C	4.28 kW	4.24 kW
COP Tj = 12°C	9.16	7.27
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10.06 kW	9.93 kW
COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

## Model HP ODU AGILE 14T / HP IDU TOWER M61AL

Model name	HP ODU AGILE 14T / HP IDU TOWER M61AL
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 $\eta_{DHW}$	126 %
COP	3.05
Heating up time	0:41 h:min
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Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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 kW	15.5 kW
El input	3.04 kW	5.6 kW
COP	4.6	2.77

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	138 %

Prated	11 kW	11 kW
SCOP	4.57	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.06 kW	9.93 kW
COP Tj = -7°C	2.68	2.21
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.23 kW	6.24 kW
COP Tj = +2°C	4.55	3.34
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	3.97 kW	3.86 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

## Model HP ODU AGILE 14T / HP IDU TOWER T61AL

Model name	HP ODU AGILE 14T / HP IDU TOWER T61AL
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

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## EN 14825 | Average Climate

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COP Tj = Tbiv	2.68	2.21
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WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

## Model HP ODU AGILE 14T / HP IDU TOWER M32AL

Model name	HP ODU AGILE 14T / HP IDU TOWER M32AL
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
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	Low temperature	Medium temperature
Heat output	14 kW	15.5 kW
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	Low temperature	Medium temperature
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## EN 14825 | Average Climate

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WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

## Model HP ODU AGILE 14T / HP IDU TOWER M62AL

Model name	HP ODU AGILE 14T / HP IDU TOWER M62AL
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 $\eta_{DHW}$	126 %
COP	3.05
Heating up time	0:41 h:min
Standby power input	38 W
Reference hot water temperature	48.8 °C
Mixed water at 40°C	220 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 kW	15.5 kW
El input	3.04 kW	5.6 kW
COP	4.6	2.77

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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## EN 14825 | Average Climate

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Tbiv	-7 °C	-7 °C
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COP Tj = Tbiv	2.68	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.88 kW	9.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.01
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WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh

## Model HP ODU AGILE 14T / HP IDU TOWER T62AL

Model name	HP ODU AGILE 14T / HP IDU TOWER T62AL
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 $\eta_{DHW}$	126 %
COP	3.05
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	Low temperature	Medium temperature
Heat output	14 kW	15.5 kW
El input	3.04 kW	5.6 kW
COP	4.6	2.77

## EN 12102-1 | Average Climate

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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.89	0.91
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	52 W	52 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	1.7 kW
Annual energy consumption Qhe	5053 kWh	6567 kWh