Subtype Beretta TOWER GREEN T 4M/6M 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 4M/6M AIO
Registration number	011-1W0728
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	0.9 kg
Certification Date	24.10.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model HP ODU AGILE 4M / HP IDU TOWER M31AS

Model name	HP ODU AGILE 4M / HP IDU TOWER M31AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

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	178 %	135 %

Prated	5 kW	5 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.01 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1 kW	1.5 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Model HP ODU AGILE 4M / HP IDU TOWER M61AS

Model name	HP ODU AGILE 4M / HP IDU TOWER M61AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

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	178 %	135 %

Prated	5 kW	5 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.01 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1 kW	1.5 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Model HP ODU AGILE 4M / HP IDU TOWER M32AS

Model name	HP ODU AGILE 4M / HP IDU TOWER M32AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	178 %	135 %

Prated	5 kW	5 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.01 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1 kW	1.5 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Model HP ODU AGILE 4M / HP IDU TOWER M62AS

Model name	HP ODU AGILE 4M / HP IDU TOWER M62AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	4 kW	6.51 kW
El input	0.77 kW	2.15 kW
COP	5.2	3.03

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	178 %	135 %

Prated	5 kW	5 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	3.11	2.18
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.99 kW	2.5 kW
COP Tj = +2°C	4.45	3.48
Cdh Tj = +2 °C	0.94	0.94
Pdh Tj = +7°C	1.8 kW	1.6 kW
COP Tj = +7°C	5.87	4.28
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4.4 kW	4 kW
COP Tj = Tbiv	3.11	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.01 kW	3.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1 kW	1.5 kW
Annual energy consumption Qhe	2268 kWh	2721 kWh

Model HP ODU AGILE 6M / HP IDU TOWER M31AS

Model name	HP ODU AGILE 6M / HP IDU TOWER M31AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

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	180 %	132 %

Prated	6 kW	6 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.09 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.9 kW	1.5 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Model HP ODU AGILE 6M / HP IDU TOWER M61AS

Model name	HP ODU AGILE 6M / HP IDU TOWER M61AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

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	180 %	132 %

Prated	6 kW	6 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.09 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.9 kW	1.5 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Model HP ODU AGILE 6M / HP IDU TOWER M32AS

Model name	HP ODU AGILE 6M / HP IDU TOWER M32AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	180 %	132 %

Prated	6 kW	6 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.09 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.9 kW	1.5 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh

Model HP ODU AGILE 6M / HP IDU TOWER M62AS

Model name	HP ODU AGILE 6M / HP IDU TOWER M62AS
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 ηDHW	133 %
COP	3.14
Heating up time	1:38 h:min
Standby power input	35 W
Reference hot water temperature	47.7 °C
Mixed water at 40°C	234 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	6 kW	7.53 kW
El input	1.25 kW	2.61 kW
COP	4.8	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	180 %	132 %

Prated	6 kW	6 kW
SCOP	4.58	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.28 kW	5 kW
COP Tj = -7°C	3.02	2.1
Cdh Tj = -7 °C	0.98	0.98
Pdh Tj = +2°C	3.41 kW	3.4 kW
COP Tj = +2°C	4.45	3.22
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.14 kW	2 kW
COP Tj = +7°C	6.05	4.58
Cdh Tj = +7 °C	0.9	0.91
Pdh Tj = 12°C	1.48 kW	1.5 kW
COP Tj = 12°C	7.38	6.35
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.28 kW	5 kW
COP Tj = Tbiv	3.02	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.09 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.8	0.8
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	40 W	40 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.9 kW	1.5 kW
Annual energy consumption Qhe	2691 kWh	3497 kWh