

Subtype BERETTA HYDRO UNIT P 004

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 HYDRO UNIT P 004
Registration number	011-1W0626
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.39 kg
Certification Date	26.06.2023
Testing basis	HP KEYMARK Certification Scheme Rules Rev. 12

**Model BERETTA HYDRO UNIT P 004**

Model name	BERETTA HYDRO UNIT P 004
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	3.95 kW	3.75 kW
El input	0.81 kW	1.27 kW
COP	4.90	2.95

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	1.06 kW	
Cooling capacity	3.35	
EER	3.15	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	47 dB(A)	49 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	185 %	131 %
Prated	3.80 kW	3.46 kW
SCOP	4.70	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	3.36 kW	3.06 kW
COP Tj = -7°C	2.86	1.97
Cdh Tj = -7 °C		
Pdh Tj = +2°C	2.05 kW	1.86 kW
COP Tj = +2°C	4.46	3.15
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.62 kW	1.52 kW
COP Tj = +7°C	6.83	4.88
Cdh Tj = +7 °C	0.937	0.952
Pdh Tj = 12°C	1.91 kW	1.84 kW
COP Tj = 12°C	9.23	6.91
Cdh Tj = +12 °C	0.928	0.944
Pdh Tj = Tbiv	3.36 kW	3.06 kW
COP Tj = Tbiv	2.86	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.08 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	15 W	15 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.72 kW	0.76 kW
Annual energy consumption Qhe	1666 kWh	2138 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.35 kW	
SEER	4.93	
Pdc Tj = 35°C	3.35 kW	
EER Tj = 35°C	3.15	
Cdc Tj = 35 °C		
Pdc Tj = 30°C	2.47 kW	
EER Tj = 30°C	4.30	
Cdc Tj = 30 °C		
Pdc Tj = 25°C	1.59 kW	
EER Tj = 25°C	6.09	
Cdc Tj = 25 °C		
Pdc Tj = 20°C	1.71 kW	
EER Tj = 20°C	7.98	
Cdc Tj = 20 °C	0.900	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	2010 kWh