

## Subtype BERETTA HYDRO UNIT P 010

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 010
Registration number	011-1W0629
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.76 kg
Certification Date	26.06.2023
Testing basis	HP KEYMARK Certification Scheme Rules Rev. 12

## Model BERETTA HYDRO UNIT P 010

Model name	BERETTA HYDRO UNIT P 010
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	9.60 kW	9.40 kW
El input	2.21 kW	3.19 kW
COP	4.35	2.95

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.55 kW	
Cooling capacity	7.40	
EER	2.90	

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	49 dB(A)	51 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	185 %	131 %
Prated	6.43 kW	6.45 kW
SCOP	4.69	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	5.69 kW	5.71 kW
COP Tj = -7°C	2.68	1.90
Cdh Tj = -7 °C		
Pdh Tj = +2°C	3.46 kW	3.48 kW
COP Tj = +2°C	4.60	3.12
Cdh Tj = +2 °C		
Pdh Tj = +7°C	2.80 kW	2.68 kW
COP Tj = +7°C	6.63	4.97
Cdh Tj = +7 °C	0.964	0.972
Pdh Tj = 12°C	3.23 kW	3.16 kW
COP Tj = 12°C	8.51	7.09
Cdh Tj = +12 °C	0.960	0.966
Pdh Tj = Tbiv	5.69 kW	5.71 kW
COP Tj = Tbiv	2.68	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.27 kW	5.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.71
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	1.16 kW	1.16 kW
Annual energy consumption Qhe	2829 kWh	3989 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.40 kW	
SEER	5.15	
Pdc Tj = 35°C	7.40 kW	
EER Tj = 35°C	2.90	
Cdc Tj = 35 °C		
Pdc Tj = 30°C	5.45 kW	
EER Tj = 30°C	4.23	
Cdc Tj = 30 °C		
Pdc Tj = 25°C	3.51 kW	
EER Tj = 25°C	6.10	
Cdc Tj = 25 °C		
Pdc Tj = 20°C	3.02 kW	
EER Tj = 20°C	7.54	
Cdc Tj = 20 °C	0.963	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	4440 kWh