Subtype BERETTA HYDRO UNIT P 006	
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 006
Registration number	011-1W0627
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.58 kg
Certification Date	26.06.2023
Testing basis	HP KEYMARK Certification Scheme Rules Rev. 12

Model BERETTA HYDRO UNIT P 006	
Model name	BERETTA HYDRO UNIT P 006
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	5.80 kW	5.25 kW
El input	1.18 kW	1.78 kW
COP	4.90	2.95

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	1.46 kW	
Cooling capacity	4.60	
EER	3.15	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	48 dB(A)	50 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	131 %
Prated	4.88 kW	4.87 kW
SCOP	4.82	3.34
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	4.32 kW	4.31 kW
COP Tj = -7°C	2.77	2.00
Cdh Tj = -7 °C		
Pdh Tj = +2°C	2.63 kW	2.62 kW
COP Tj = +2°C	4.59	3.14
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.96 kW	1.69 kW
COP Tj = +7°C	7.05	4.74
Cdh Tj = +7 °C	0.946	0.961
Pdh Tj = 12°C	2.28 kW	2.25 kW
COP Tj = 12°C	9.08	6.69
Cdh Tj = +12 °C	0.940	0.955
Pdh Tj = Tbiv	4.32 kW	4.31 kW
COP Tj = Tbiv	2.77	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.38 kW	4.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	1.78
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	0.50 kW	0.87 kW
Annual energy consumption Qhe	2092 kWh	3010 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.60 kW	
SEER	5.34	
Pdc Tj = 35°C	4.60 kW	
EER Tj = 35°C	3.15	
Cdc Tj = 35 °C		
Pdc Tj = 30°C	3.39 kW	
EER Tj = 30°C	4.60	
Cdc Tj = 30 °C		
Pdc Tj = 25°C	2.18 kW	
EER Tj = 25°C	6.43	
Cdc Tj = 25 °C		
Pdc Tj = 20°C	2.05 kW	
EER Tj = 20°C	8.17	
Cdc Tj = 20 °C	0.940	
Poff	10 W	

PTO	15 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	2760 kWh