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Summary of	Beretta HYDRO UNIT M 8 10 kW	Reg. No.	041-K019-06	
Certificate Holder				
Name	Riello S.p.A.			
Address	Via Ing. Pilade Riello 7	Zip	37045	
City	Legnago (VR)	Country	Italy	
Certification Body	BRE Global Limited			
Subtype title	Beretta HYDRO UNIT M 8 10 kW			
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R32			
Mass of Refrigerant	1.65 kg	1.65 kg		
Certification Date	05.11.2021	05.11.2021		
Testing basis	Heat Pump Keymark Scheme Rules Rev 08			
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Model: HYDRO UNIT M 008

Configure model				
Model name	HYDRO UNIT M 008			
Application	Heating (medium temp)			
Units	Outdoor			
Climate Zone	Colder Climate + Warmer Climate			
Reversibility	Yes			
Cooling mode application (optional)	n/a			

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	8.40 kW	7.50 kW		
El input	1.63 kW	2.36 kW		
СОР	5.15	3.18		

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η _s	273 %	177 %	
Prated	8.12 kW	8.37 kW	
SCOP	6.99	4.50	
Tbiv	7 °C	7 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	7.57 kW	7.55 kW	
COP Tj = +2°C	3.98	2.59	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	5.22 kW	5.38 kW	
COP Tj = +7°C	6.26	4.01	
Cdh Tj = +7 °C	0.900	0.900	
Pdh Tj = 12°C	2.45 kW	2.32 kW	
COP Tj = 12°C	9.02	5.55	
Cdh Tj = +12 °C	0.900	0.900	
Pdh Tj = Tbiv	5.22 kW	5.38 kW	



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COP Tj = Tbiv	6.26	4.01			
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	7.55 kW			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.98	2.59			
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh					
WTOL	65 °C	65 °C			
Poff	14 W	14 W			
РТО	24 W	24 W			
PSB	14 W	14 W			
РСК	0 W	0 W			
Supplementary Heater: Type of energy input	Electricity	Electricity			
Supplementary Heater: PSUP	0.55 kW	0.82 kW			
Annual energy consumption Qhe	1569 kWh	2485 kWh			

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η _s	170 %	112 %	

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Prated	6.98 kW	5.78 kW
SCOP	4.32	2.88
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.46 kW	3.86 kW
COP Tj = -7°C	3.66	2.48
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.70 kW	2.21 kW
COP Tj = +2°C	5.20	3.35
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	1.66 kW	1.44 kW
COP Tj = +7°C	6.53	4.11
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.66 kW	1.47 kW
COP Tj = 12°C	7.96	5.92
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.69 kW	4.71 kW
COP Tj = Tbiv	2.83	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.06 kW	2.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.95	1.22
WTOL	65 °C	65 °C
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Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.91 kW	2.99 kW
Annual energy consumption Qhe	3978 kWh	4950 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.69	4.71
$COP Tj = -15^{\circ}C (if TOL < -20^{\circ}C)$	2.83	1.90
Cdh Tj = -15 °C	0.90	0.90

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	205 %	132 %
Prated	8.12 kW	6.60 kW
SCOP	5.21	3.36

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Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.19 kW	5.84 kW
COP Tj = -7°C	3.35	2.16
Cdh Tj = -7 °C	0.90	0.90
$Pdh Tj = +2^{\circ}C$	4.65 kW	3.76 kW
COP Tj = +2°C	5.09	3.30
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.90 kW	2.43 kW
$COP Tj = +7^{\circ}C$	6.82	4.34
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.63 kW	1.40 kW
COP Tj = 12°C	8.35	5.33
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	7.19 kW	5.84 kW
COP Tj = Tbiv	3.35	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.45 kW	4.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	1.84
WTOL	65 °C	65 °C
Poff	14 W	14 W
РТО	24 W	24 W



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PSB	14 W	14 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.68 kW	1.69 kW
Annual energy consumption Qhe	3223 kWh	4056 kWh



Model: HYDRO UNIT M 010

Configure model		
Model name HYDRO UNIT M 010		
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	10.00 kW	9.50 kW
El input	2.02 kW	3.06 kW
СОР	4.95	3.10

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Warmer Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Medium temperature	
η _s	279 %	180 %
Prated	8.58 kW	8.63 kW
SCOP	7.12	4.58
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.44 kW	8.06 kW
COP Tj = +2°C	3.84	2.59
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.52 kW	5.55 kW
COP Tj = +7°C	6.18	4.10
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.62 kW	2.53 kW
COP Tj = 12°C	9.04	5.82
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.52 kW	5.55 kW



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6.18	4.10
8.44 kW	8.16 kW
3.84	2.61
65 °C	65 °C
14 W	14 W
24 W	24 W
14 W	14 W
0 W	0 W
Electricity	Electricity
0.14 kW	0.48 kW
1628 kWh	2516 kWh
_	8.44 kW 3.84 65 °C 14 W 24 W 14 W 0 W Electricity 0.14 kW

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η _s	170 %	116 %
Prated	7.75 kW	6.71 kW

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SCOP	4.32	
Tbiv	-15 °C	-15 °C
	-15 C	-15 C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.83 kW	4.27 kW
COP Tj = -7°C	3.60	2.54
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.94 kW	2.57 kW
COP Tj = +2°C	5.26	3.51
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	1.92 kW	1.66 kW
COP Tj = +7°C	7.08	4.37
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.66 kW	1.48 kW
COP Tj = 12°C	7.96	5.96
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.32 kW	5.48 kW
COP Tj = Tbiv	2.64	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.63 kW	2.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.97	1.22
WTOL	65 °C	65 °C
Poff	14 W	14 W



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24 W	24 W
14 W	14 W
0 W	0 W
Electricity	Electricity
3.13 kW	3.91 kW
4424 kWh	5540 kWh
6.32	5.48
2.64	2.00
0.90	0.90
	14 W 0 W Electricity 3.13 kW 4424 kWh 6.32 2.64

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	205 %	137 %
Prated	9.17 kW	7.67 kW
SCOP	5.19	3.49
Tbiv	-7 °C	-7 °C

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5		
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.11 kW	6.78 kW
COP Tj = -7°C	3.23	2.24
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.18 kW	4.29 kW
COP Tj = +2°C	5.01	3.42
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	3.32 kW	2.77 kW
COP Tj = +7°C	7.08	4.52
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.65 kW	1.58 kW
COP Tj = 12°C	8.58	5.68
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.11 kW	6.78 kW
COP Tj = Tbiv	3.23	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	5.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.96	1.83
WTOL	65 °C	65 °C
Poff	14 W	14 W
РТО	24 W	24 W
PSB	14 W	14 W



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РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.76 kW	2.28 kW
Annual energy consumption Qhe	3647 kWh	4539 kWh

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