



HEAT PUMP SOLUTIONS

Heat pumps for radiator **heating/cooling** systems and DHW

QUENCH R290 full DC inverter heat pump operates stably and efficiently in extremely cold regions maintaining a high COP and water output temperature up to 75 °C.

Technical data:

Heat pump model	Q-RH-8-1	Q-RH-1-11	Q-RH-15-1	Q-RH-22-3
Heating power @ Air temp T _{db} : 7°C, Water temp: 30°C/35°C	8.3 kW	11.39 kW	14.79 kW	22.0 kW
COP _{max}	5.17	5.28	5.21	5.24
DHW Heating power @ Air temp T _{db} : 7°C, Water temp: 15°C/55°C	7.4 kW	10.2 kW	13.2 kW	17.6 kW
COP _{max}	4.69	4.71	4.67	4.66
Cooling power @ Air temp T _{db} : 35°C, Water temp: 12°C/7°C	5.8 kW	8.2 kW	10.8 kW	15.3 kW
EER max	3.04	3.06	3.10	3.12
Max. current / phase	14.2 Amp	18.8 Amp	23.8 Amp	14.3 Amp
Circuit breaker	20.0 Amp	25.0 Amp	32.0 Amp	20.0 Amp
Power supply	1ph			3ph
Power cable size	3x4 mm ²	3x4 mm ²	3x6 mm ²	5x6 mm ²
Noise – sound pressure (dB)	44	47	46	62
Connection Diameter	1"			
Water flowrate (L/min)	23.8	32.6	42.5	63
Casing	Metal			
Dimension (W*D*H) inch/ net Weight kg	42.5*18.1*32/112	42.5*18.1*37.8/120	42.5*18.1*41.7/138	42.5*18.9*54.0/170
Refrigerant type	R290			



This data is for reference only. Please refer to heat pump's nameplate and user's manual for exact information.

Applications: Heating, Cooling, Heating + DHW, Cooling + DHW, DHW

Heat pumps for swimming pools **heating/cooling**

QUENCH swimming Pool Heat Pump adopts FULL DC INVERTER technology and the double-side discharge design and double rotor compressor that effectively reduces the noise level. It is suitable for swimming pools of 15 to 170m³

Technical data:

Heat pump model	Q-SP-75-1	Q-SP-100-1	Q-SP-100-1D	Q-SP-170-3
Heating power @ Air temp: 27°C, Water temp: 26°C, H 80% (Inlet water temp. 26°C, outlet water temp. 28°C, Tdb 26°C)	16.99 kW	23.99 kW	28.5 kW	51.5 kW
COP	6.5-15.0	6.0-15.0	6.8-15.9	6.1
Heating power @ Air temp: 15°C, Water temp: 26°C, H 70% (Inlet water temp. 26°C, outlet water temp. 28°C, Tdb 15°C)	13.0 kW	18.69 kW	22.5 kW	39.8 kW
COP	5.0-7.4	4.8-7.0	5.4-8.1	4.7
Cooling power @ Air temp: 35°C, Water temp: 28°C, H 80%	8.59 kW	11.7 kW	18.4 kW	31.0 kW
Nominal current @ Air temp. 15°C	11.4 A	17.8 A	18.3 A	22.0 A
Circuit breaker	20.0 A	32.0 A	32.0 A	32.0 A
Power supply	1-Phase			3-phase
Power cable size	3x4.0 mm ²	3x6.0 mm ²	3x6.0 mm ²	5x6.0 mm ²
Noise – sound pressure (dB) @ 10 m/1 m	30/52	32/54	31/53	46/58
Connection Diameter	2"	2"	2"	2"
Min./Max water flowrate (L/min)	100/150	150/200	183	367
Compressor/Controller/Condenser/Casing	GREE or Panasonic/CHICO/Titanium in PVC/Metal			
Dimension (W*D*H) inch/ net Weight kg	43.6*19.8*29.9/81	43.6*19.8*29.9/81	43.6*19.8*29.9/90	59*29.5*42.3/200
Refrigerant type/weight	R32/0.75 kg	R32/1.2 kg	R32/2.0 kg	R410/5.4 kg



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Applications: Heating, Cooling

Heat pumps for underfloor heating/cooling systems and DHW

QUENCH ultra-low temperature technology, EVI DC inverter heat pump can operate stably in extremely cold regions, ensuring a stable supply of heating (up to 55 °C), cooling and domestic hot water throughout the year.

Technical data:

Heat pump model	Q-UF-13-1	Q-UF-18-1	Q-UF-23-3	Q-UF-28-3	Q-UF-35-3
Heating power @ Air temp T _{db} : 7°C, Water temp: 30°C/35°C	13.0 kW	18.1 kW	23.0 kW	28.0 kW	35.0 kW
COP _{max}	4.9	4.91	4.66	4.70	4.72
DHW Heating power @ Air temp T _{db} : 7°C, Water temp: 15°C/55°C	10.5 kW	14.7 kW	18.49 kW	20.4 kW	22.6 kW
COP _{max}	4.0	4.1	3.79	4.24	4.26
Cooling power @ Air temp T _{db} : 35°C, Water temp: 12°C/7°C	8.2 kW	11.52 kW	14.6 kW	19.8 kW	24.6 kW
EER max	3.25	3.43	3.22	3.24	3.23
Max. current / phase	15.1 Amp	21.1 Amp	14.0 Amp	19.0 Amp	22.8 Amp
Circuit breaker	32 Amp	40 Amp	24.0 Amp	32.0 Amp	32.0 Amp
Power supply	220V-230 V/1-phase/50Hz,60Hz		380V/3ph/50-60Hz		
Power cable size	3x6 mm ²	3x10 mm ²	5x4 mm ²	5x6 mm ²	5x6 mm ²
Noise – sound pressure (dB)	49	57	58	62	66
Connection Diameter	1"		1"1/4		
Water flowrate (L/min)	36.6	51.7	66.7	80.0	100
Compressor/ Casing	Panasonic/Metal				
Dimension (W*D*H) inch/ net Weight kg	44.8*20.2*43.7/105	41.3*18.9*52.4/150	41.3*18.9*52.4/155	45.7*19.7*62.2/210	45.7*19.7*62.2/230
Refrigerant type/weight	R32/1.6 kg	R32/2.7 kg	R32/2.7 kg	R32/3.0 kg	R32/4.0 kg



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Applications: Heating, Cooling, Heating + DHW, Cooling + DHW, DHW