

HP.OWER ONE R

ENBLOC FULL INVERTER HEAT PUMPS

- Air-water, full inverter, **high efficiency** heat pump available in 6 models
- **Efficiency Class A+++**
C.O.P. up to 4.85 - E.E.R. up to 5.40
- Low absorption and noisiness, twin rotary, **DC Inverter compressor**
- **DC INVERTER BRUSHLESS fan motors**
- **INVERTER circulators with high efficiency brushless motor**
- **Flow temperatures** up to 60°C
- Operation **up to -20°C**
- High efficiency, stainless steel, patented, water/gas plate heat exchanger, for R32
- **Preassembled HYDRONIC KIT**
composed of:
 - safety valve at 6 bar
 - air vent
 - INVERTER circulator
 - circulation flow-switch
- **Air-gas plate heat exchanger** made of copper pipes with anti corrosion aluminium fins.
- **D.H.W. production** through a dedicated storage tank
- **Refrigerant R32**
- **Integrated digital regulator**
- **Touch screen remote control (optional)**
- **Management of integration source** through integral climatic controller
- **Standard supplied thermo-regulation** with control of modulating flow temperature
- **Management through outer compensator** with 0-10 V signal (optional)
- Management through external on-off programmer (optional)
- **Automatic management** of electric heater for D.H.W. tank
- **Automatic defrosting**
- **Compressor case pre-heating** for low temperatures
- **Auto-restart**
- **Self-diagnosis**

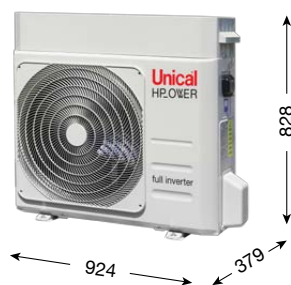




Dimensions and technical data

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HP_OVER ONE 70R-90R



HP_OVER ONE 120R



HP_OVER ONE 140R-160RT-180R



HP_OVER ONE		70R	90R	120R	140R	160RT	180R
Season EFFICIENCY CLASS in heating mode (T _{out} = 35/55°C)		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Cooling	Cooling capacity ⁽¹⁾ min.-nom.-max.	kW 4.82 - 6.18 - 6.80*	4.91 - 7.72 - 8.49*	6.41 - 11.60 - 12.76*	9.17 - 14.00 - 14.70*	9.20 - 15.80 - 16.59*	9.09 - 17.10 - 17.96*
	Input power ⁽¹⁾	kW 1.28	1.76	2.79	2.59	3.15	3.59
	E.E.R. ⁽¹⁾	W/W 4.82	4.38	4.16	5.40	5.02	4.76
	Cooling capacity ⁽²⁾ min-nom-max	kW 3.20 - 5.02 - 5.52*	3.80 - 6.08 - 6.69*	4.55 - 8.51 - 9.36*	6.87 - 11.48 - 12.05*	5.99 - 13.80 - 14.49*	6.86 - 15.04 - 15.79*
	Input power ⁽²⁾	kW 1.60	1.99	2.79	3.53	4.38	4.88
Heating	E.E.R. ⁽²⁾ / S.E.E.R. ⁽⁵⁾	W/W 3.14 / 4.12	3.05 / 4.25	3.05 / 4.25	3.25 / 4.62	3.15 / 4.80	3.08 / 4.91
	Heating capacity ⁽³⁾ min-nom-max	kW 3.95 - 6.08 - 6.99*	3.95 - 7.81 - 8.98*	5.33 - 11.80 - 13.57*	7.54 - 14.10 - 15.23*	7.36 - 16.30 - 17.60*	7.30 - 17.90 - 19.33*
	Input power ⁽³⁾	kW 1.35	1.78	2.73	2.91	3.49	4.07
	C.O.P. ⁽³⁾	W/W 4.51	4.38	4.32	4.85	4.67	4.40
	Heating capacity ⁽⁴⁾ min-nom-max	kW 3.82 - 5.88 - 6.76*	3.80 - 7.58 - 8.72*	5.13 - 11.47 - 13.19*	7.23 - 13.56 - 14.64*	7.06 - 15.77 - 17.03*	7.02 - 17.32 - 18.71*
Electric data	Input power ⁽⁴⁾	kW 1.66	2.17	3.33	3.55	4.24	4.92
	C.O.P. ⁽⁴⁾ / S.C.O.P. ⁽⁶⁾	W/W 3.54 / 4.46	3.50 / 4.46	3.44 / 4.47	3.82 / 4.48	3.72 / 4.49	3.52 / 4.46
	Power supply	230V/1/50Hz	230V/1/50Hz	230V/1/50Hz	230V/1/50Hz	400V/3P+N+T/50Hz	400V/3P+N+T/50Hz
Hydraulic circuit	Maximum input power (vers. K)	kW 3.5 (3.6)	3.9 (4.0)	5.1 (5.2)	6.6 (6.7)	7.0 (7.1)	8.3 (8.5)
	Maximum input current (vers. K)	A 15.1 (15.6)	17.0 (17.6)	22.1 (22.7)	28.6 (29.2)	10.1 (10.3)	12.0 (12.2)
	R32 Refrigerant quantity ⁽⁷⁾	kg 1.5	1.5	2.5	3.6	4	4
Noise level	Water flow rate ⁽²⁾	l/s 0.24	0.28	0.41	0.55	0.66	0.71
	Available head pressure ⁽²⁾	kPa 78.8	76.0	63.4	75.0	62.3	55.6
	Minimum volume of water	l 40	40	60	60	70	70
Operating weight	Sound power L _w ⁽⁸⁾	dB(A) 64	64	65	68	68	68
	Sound press. level at a dist. of 1m L _{p1} ⁽⁹⁾	dB(A) 49.8	49.8	50.4	52.7	52.7	52.7
	Sound press. level at a dist. of 10m L _{p10} ⁽⁹⁾	dB(A) 32.8	32.8	33.7	36.6	36.6	36.6

Performance referring to the following conditions:

- (1) Cooling: outdoor air temperature 35°C; in/out water temperature 23/18 °C
- (2) Cooling: outdoor air temperature 35°C; in/out water temperature 12/ 7°C.
- (3) Heating: outdoor air temperature 7°C DB 6°C WB; in/out water temp 30/35°C.
- (4) Heating: outdoor air temperature 7°C DB 6°C WB; in/out water temp 40/45°C.
- (5) Cooling: in/out water temperature 7/12°C.
- (6) Heating: average climatic conditions; T_{biv} = -7°C; in/out water temp 30/35°C.
- (7) Indicative data subject to changes. For the correct value, always refer to the technical label on the unit.

- (8) Sound power level: full load unit in heating mode according to EU Regulation 813/2013 for medium and low temperature applications. Value determined on the basis of measurements carried out in accordance with EN 12102-1: 2017, used in conjunction with UNI EN ISO 9614-2 which describes the test with the Intensimetric method. The tolerance on the value of the total sound power level is 2 dB(A).
- (9) Sound pressure level: value calculated from the sound power level using ISO 3744:2010, considering the units in the open field
- (*) activating the "maximum Hz" function

Performance data declared in points (1), (2), (3) and (4) is intended to refer to instantaneous power according to UNI EN 14511. The value declared in point (5) and (6) is determined according to UNI EN 14825