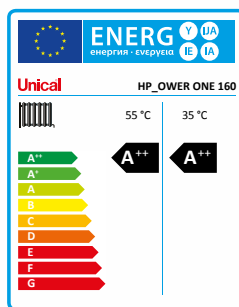


HPower ONE

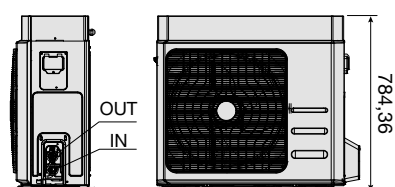
ENBLOC FULL INVERTER HEAT PUMPS

- Air-water, full inverter, **high efficiency** heat pump available in 5 models
- **Efficiency Class A++**
C.O.P. up to 4.47 - E.E.R. up to 4.90
- Low absorption and noisiness, twin rotary, **DC Inverter compressor**
- **DC INVERTER fan motors**
- **INVERTER circulators**
- **Flow temperatures** up to 58°C
- **Operation up to -20°C**
- High efficiency, stainless steel AISI 316L, patented, water / gas plate heat exchanger, for R410A
- **Preassembled HYDRONIC KIT**
composed of:
 - safety valve at 6 bar
 - limit thermostat 85°C
 - air vent
 - INVERTER circulator
 - circulation flow-switch
 - expansion vessel
- **Air-gas plate heat exchanger** made of copper pipes with mildew resistant aluminium fins.
- D.H.W. production through a dedicated storage tank
- **Refrigerant R410A**
- **Integrated digital control**
- **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**

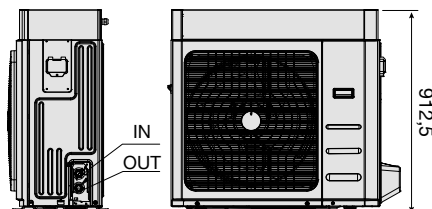


Dimensions and technical data

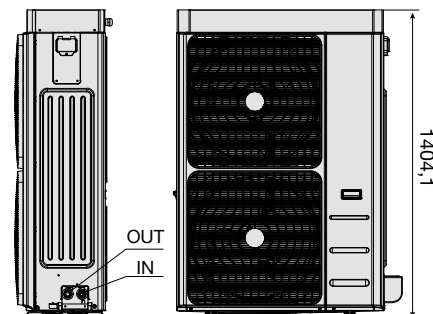
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HP_OWER ONE 70-90
HP_OWER ONE 120
HP_OWER ONE 140-160


IN/OUT: 1" M



IN/OUT: 1" M



IN/OUT: 1" M

HP_OWER ONE			70	90	120	140	160
Season EFFICIENCY CLASS in heating mode ($T_{out} = 35/55^{\circ}\text{C}$)			A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A++
Cooling	Cooling capacity ⁽¹⁾ min.-nom.-max.	kW	3.65-6.87-7.56	4.65-8.52-9.12	5.40-11.90-13.10	6.70-13.80-15.20	8.70-15.69-16.30
	Power input ⁽¹⁾	kW	1.69	2.18	2.65	2.93	3.20
	E.E.R. ⁽¹⁾	W/W	4.06	3.91	4.49	4.70	4.90
	Cooling capacity ⁽²⁾ min.-nom.-max.	kW	2.32 - 5.07 - 5.58	2.95 - 6.12 - 6.73	3.27 - 8.49 - 9.60	5.30-11.46-12.05	6.30 - 14.64 - 16.00
	Power input ⁽²⁾	kW	1.74	2.11	2.74	3.70	4.52
	E.E.R. ⁽²⁾ / E.S.E.E.R. ⁽²⁾	W/W	2.91 / 3.59	2.90 / 3.61	3.10 / 4.73	3.10 / 4.51	3.24 / 4.77
Heating	Heating capacity ⁽³⁾ min.-nom.-max.	kW	2.78-6.57-7.23	3.54-8.01-8.81	4.69-12.10-12.70	5.50-13.76-15.10	7.10-15.21-15.90
	Power input ⁽³⁾	kW	1.47	1.85	2.89	3.20	3.45
	C.O.P. ⁽³⁾	W/W	4.47	4.33	4.19	4.30	4.41
	Heating capacity ⁽⁴⁾ min.-nom.-max.	kW	2.24-6.15-6.76	2.85-7.92-8.71	3.90-11.30-12.10	5,30 - 13,55 - 14,90	6.50-15.17-15.80
	Power input ⁽⁴⁾	kW	1.83	2.40	3.32	4,04	4.38
	C.O.P. ⁽⁴⁾	W/W	3.36	3.31	3.41	3,35	3.46
	S.C.O.P. ⁽⁵⁾	W/W	3.84	3.83	4.31	4.01	3.92
Electric data	Power supply		230V/1/50Hz	230V/1/50Hz	230V/1/50Hz	230V/1/50Hz	400V/3P+N+T/50Hz
	Maximum power input	kW	3.3	4.8	6.1	7.7	8.1
	Maximum current input	A	14.4	21.2	26.9	32.8	11.5
Refrigerant R410A	Refrigerant quantity	kg	2.55	1.9	3.8	4.8	5.0
Hydraulic circuit	Water flow rate ⁽³⁾	m ³ /h	1.13	1.38	2.08	2.37	2.62
	Available head pressure ⁽³⁾	kPa	44.6	34.5	34.2	63.4	52.9
	Minimum volume of water ⁽⁶⁾	l	31	37	51	69	88
Noise level	Sound power ⁽⁷⁾	db(A)	62.0	62.5	63.5	65.5	66.0
Weight	Operating weight	kg	67	67.5	97	119	130

Operating conditions:

(1) Cooling: Outdoor air temperature 35°C; inlet/outlet water temperature 23/ 18°C.

(2) Cooling: Outdoor air temperature 35°C; inlet/outlet water temperature 12/7°C.

(3) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet water temperature 30/35°C.

(4) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet temperature 40/45°C.

 (5) Heating in average climate condition: $T_{biv} = -7^{\circ}\text{C}$; water temperature inlet/outlet 30/35°C.

(6) Calculated for a decrease of the water temperature of the plant with 10°C with a defrosting cycle of 6 minutes.

(7) Sound power level: Heating mode condition (3) measured value made according to UNI EN ISO 9614-2, as required for Eurovent certification.

N.B. The performance data are indicative and could be subject to change. In addition, the performances declared in apex (1), (2), (3) and (4) refer to the instantaneous power according to EN 14511. The declared data stated in the apex (6) is determined according to the UNI EN 14825.

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