

HP_OWER N

HIGH POWER HEAT PUMP 250÷500

- Full inverter air-water heat pump
- High efficiency, **A++ class**:
C.O.P. up to 4.49, E.E.R. up to 4.63,
S.E.E.R. up to 5.47 (ref. EN 14511)
- DC INVERTER, SCROLL TYPE compressor
- DC INVERTER BRUSHLESS fan motor
- Asymmetric **water-gas plate heat exchanger**, high efficiency, in stainless steel, patented, for R410A
- **Air-gas heat exchanger** constituted by copper pipes with aluminum fins and anti-mould treatment
- **Integrated digital regulator** representing heating and D.H.W. production functions
- **D.H.W. tank management** for D.H.W. or technical water production
- **Standard thermo-regulation** with modulating flow temperature management
- **0-10 V external controller management**
- **ON/OFF chrono-thermostat management**
- **Automatic defrosting function**
- **Compressor case preheating** for low temperatures
- **Auto-restart and Self-diagnosis**
- Refrigerant R410A

■ **Optional equipment:**

Color touch screen remote control for power plant configuration up to 7 HP_OWER parallel units (max 350 kW)

Expansion module for auxiliary source management, boiler or electrical resistance with consumption optimization for the cheapest energy source

High delivery head modulating pump

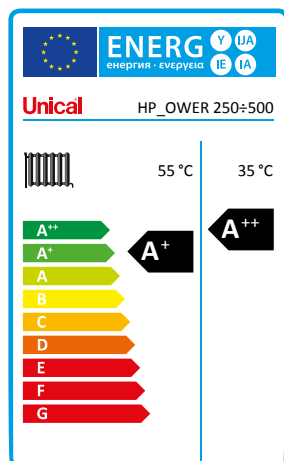
Antifreeze kit for heat exchangers: low consumption heating cable installed on bottom machine plate and on plate heat exchanger

“Low Noise” LN Kit

to increase the silent operation of the unit thanks to a thermo-acoustic insulation of the compressor to reduce noise emissions and heat losses

“Super Low Noise” SLN Kit

in addition to the LN kit, is a particular fan diffuser that allows a better air flow with a reduced fan speed



Accessories (optional)

Dimensions

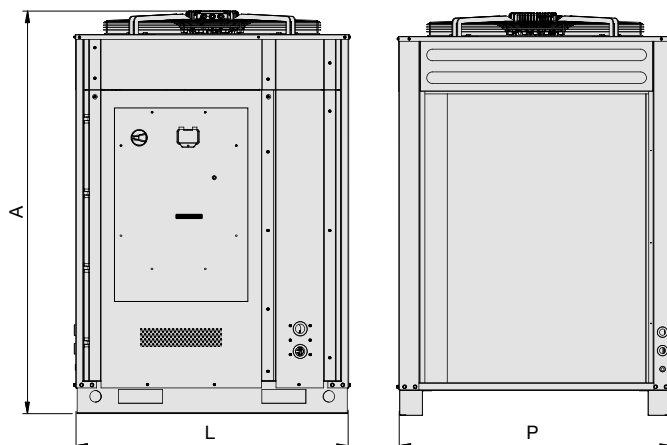
REMOTE CONTROL TOUCH SCREEN



CHRONOTERMOSTAT KTsmart



KIT SLN "Super Low Noise"



Technical data

find out more



HP_OWER N		250	350	500
HEATING CAPACITY ⁽¹⁾	kW	24.57 (27.20)*	32.65 (35.30)*	48.25 (51.60)*
HEATING CAPACITY ⁽²⁾	kW	22.05 (24.40)*	32.33 (35.10)*	41.07 (43.50)*
COOLING CAPACITY ⁽³⁾	kW	30.65 (33.50)*	36.37 (39.30)*	49.32 (51.80)*
COOLING CAPACITY ⁽⁴⁾	kW	21.15 (23.10)*	27.04 (29.10)*	36.36 (38.30)*
POWER INPUT IN EATING ^{(1) / (2)}	kW	5.47 / 6.33	7.89 / 9.80	11.42 / 12.07
POWER INPUT IN COOLING ^{(3) / (4)}	kW	6.62 / 6.35	8.91 / 8.96	12.06 / 12.47
C.O.P. ^{(1) / (2)}		4.49 / 3.49	4.14 / 3.30	4.22 / 3.40
E.E.R. ^{(3) / (4)}		4.63 / 3.33	4.08 / 3.02	4.02 / 2.92
S.E.E.R. ⁽⁵⁾		3.98	4.00	4.03
S.C.O.P. ⁽⁶⁾		3.83	3.82	3.82
POWER SUPPLY		400V/3P+N+T/50Hz	400V/3P+N+T/50Hz	400V/3P+N+T/50Hz
REFRIGERANT QUANTITY R410A (**)	kg	9.50	10	15.5
WATER FLOW RATE	l/s	1.01	1.29	1.72
AVAILABLE HEAD PRESSURE	kPa	88	81	70
HYDRAULIC CONNECTIONS	inch	2" F	2" F	2" F
MINIMUM VOLUME OF WATER	l	84	108	150
RATED AIR FLOW	m ³ /s	3.9	4.1	6.9
DIMENSIONS (L x H x W)	mm	1198 x 1198 x 1673	1198 x 1198 x 1673	1198 x 1198 x 1745
NOISE LEVEL (SOUND PRESSURE) ⁽⁷⁾ ST/LN/SLN	dB(A)	54.4 / 52.4 / 50.7	56.5 / 54.7 / 53	59.7 / 58.7 / 56.5
NOISE LEVEL (SOUND PRESSURE) ⁽⁸⁾ ST/LN/SLN	dB(A)	40.9 / 39.1 / 39.1	43.9 / 42.1 / 41.2	46.4 / 44.6 / 43.7
EXTERNAL WORKING TEMPERATURE RANGE	°C	-15 / +46	-15 / +46	-15 / +46
OPERATING WEIGHT	kg	363	391	436
NET / GROSS WEIGHT	kg	355 / 375	382 / 401	428 / 448

(*) With "Hz max" operation, this function can be activated by the user. (**) Indicative data subject to variation. For the correct data, always refer to the technical label on the unit.

Prestazioni riferite alle seguenti condizioni:

- (1) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet temperature 30/35°C.
- (2) Heating: Outdoor air temperature 7°C DB 6°C WB.; inlet/outlet temperature 40/45°C.
- (3) Cooling: Outdoor air temperature 35°C; inlet/outlet temperature 23/18°C.
- (4) Cooling: Outdoor air temperature 35°C; inlet/outlet temperature 12/7°C.

(5) Water temperature inlet/outlet 12/7°C..

(6) Heating: normal climatic condition; T_{biv}=-7°C; eater temperature inlet/outlet 30/35°C.

(7) Sound pressure level measured at 1 m from the unit, in free field, according to ISO 3744

(8) Sound pressure level measured at 10 m from the unit, in free field, according to ISO 3744

ST = "Standard" version LN = "Low Noise" version SLN = "Super Low Noise" version