

Specification Sheets

Electr Heat PRO 120 inverter



PRODUCT GRADE **Waterco Commercial**
Model Number **PRO120**
Code **27811506**

Nominal Heating Cooling Capacity*

Output Heat Turbo Mode (27/26/80)	120
Coefficient of Performance @ 27/26/80 (COP)	6
Coefficient of Performance 50% @ 27/26/80 (COP)	11.6
Output Heat Perfect Mode (27/26/80)	96
Output Heat Turbo Mode (15/26/70)	85.5
Coefficient of Performance @ 15/26/70 (COP)	4.6
Coefficient of Performance 50% @ 15/26/70 (COP)	7.3
Output Heat Perfect Mode (15/26/70)	70
Output Cool (35/28/80)	48
Compressor (HP)	DC Twin-Rotary Compressor - 8
Manufacturer	Mitsubishi DC Inverter
Compressor model	LVB65FAEMC

Water Flow & Plumbing Characteristics

Water Bypass Type	Ext. Field Install
Min./Max. Water Flow Rate (LPM)	670 - 830
Min./Max. Water Inlet Temperature (°C)	6° - 40°
Plumbing Connection Size (Slip)	100mm PVC slip

Electrical Characteristics

50Hz Dual Rated Supply Voltage (AC)	400-415V
Supply Voltage Phase	3φ
Max HACR Breaker or Fuse (AMP)	32
Unit input current (AMP)	5.64-22.54
Normal power consumption (kW)	3.89-15.55
Max. Fan Speed (RPM)	800r/min
Fan Motor	DC brushless
Fan Full Load Amp (FLA) each	1.5A
Air Flow (m³/h) each	16500m³/h
Fan Diameter (mm)	700mm
Min./Max. Air Inlet Temperature (°C)	>-20° - 43°
Power Cord (mm)	5 x 10

Refrigerant Characteristics

Refrigerant Type	R-32
Initial Factory Refrigerant Charge (grams)	10400 (5200x2)
Evaporator	Hydrophilic aluminium
Heat Exchanger	Titanium in PVC
Expansion system	Expansion Valve
Characteristics	A2L
Four Way valve	Electrical magnetic 4-way valve

Physical Characteristics

Cabinet Construction	Aluminium Alloy
Colour	Black
Weight (kg.)	476
Dimensions (mm)	2108*640*2040

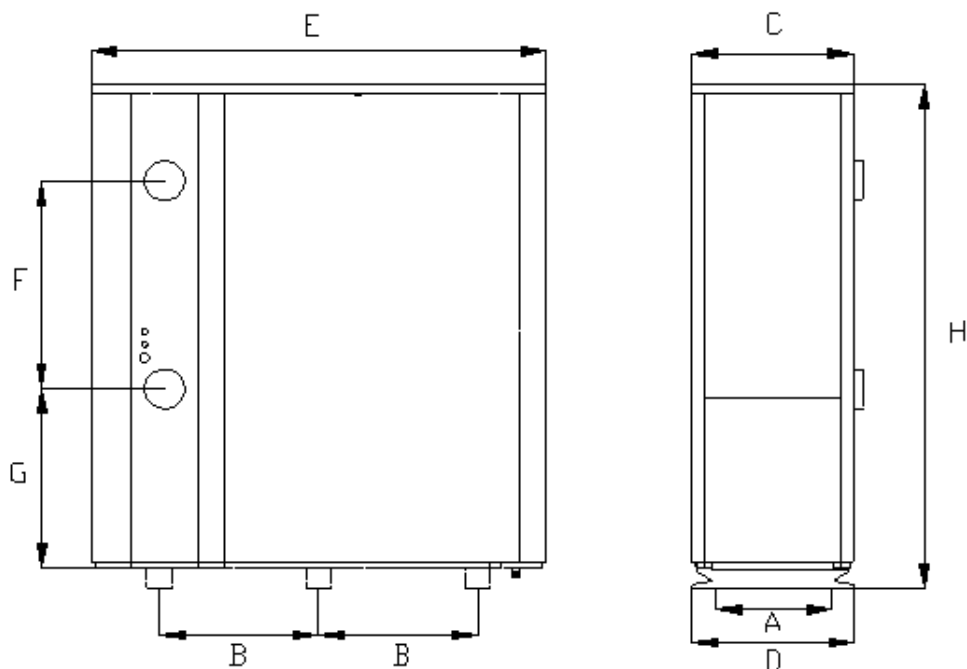
Sound Characteristics

Sound level at 1m dB(A)	53.0-62.0
Sound level 50% at 1m dB(A)	56
Sound level at 10m dB(A)	33.0-41.0

Features

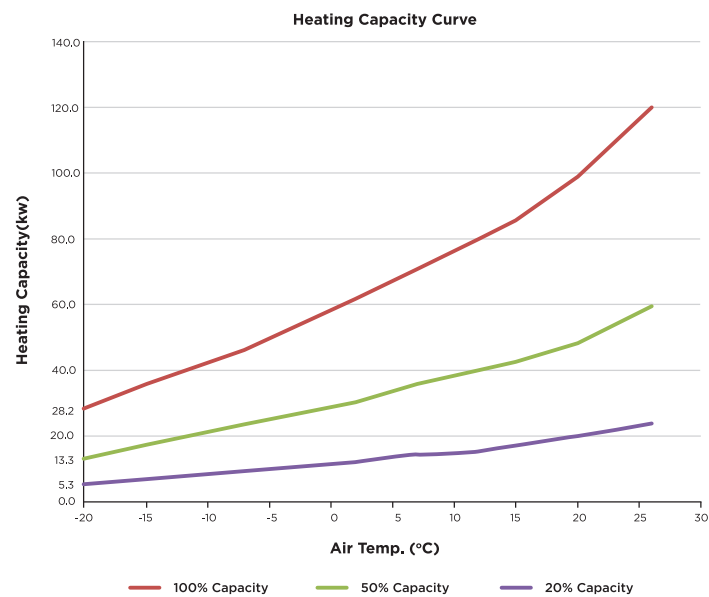


- Heating, Cooling and Auto mode selection
- Heating Temperature range 18°C - 40°C
- Cooling temperature range 12°C - 30°C
- Intuitive touch control panel with WIFI / APP control
- Aluminium alloy casing
- Titanium twisted coil exchangers for maximum heat transfer
- Blue fin dipped evaporator for enhanced heat absorption
- High performance 2 X 8HP Mitsubishi DC Inverter compressors
- Twin horizontal fans for maximum airflow
- Automatic hot gas de-icing for cold climates
- Easy to connect single in/out 100mm slip water connections
- Easy cable entry and electrical connection access
- Integral flow switch protecting equipment from operation when no flow is detected
- Noise emission: 53 - 62dBA@ 1 metre
- Noise emission: 33 - 41dBA@ 10 metres
- Warranty Domestic -
1 year labour, 7 years - titanium heat exchanger,
7 years - compressor,
5 years - all other components
- Warranty Commercial - 1 year labour and parts



Size(mm)	Name	A	B	C	D	E	F	G	H
IMPC120		572	785	640	640	2108	840	725	2040

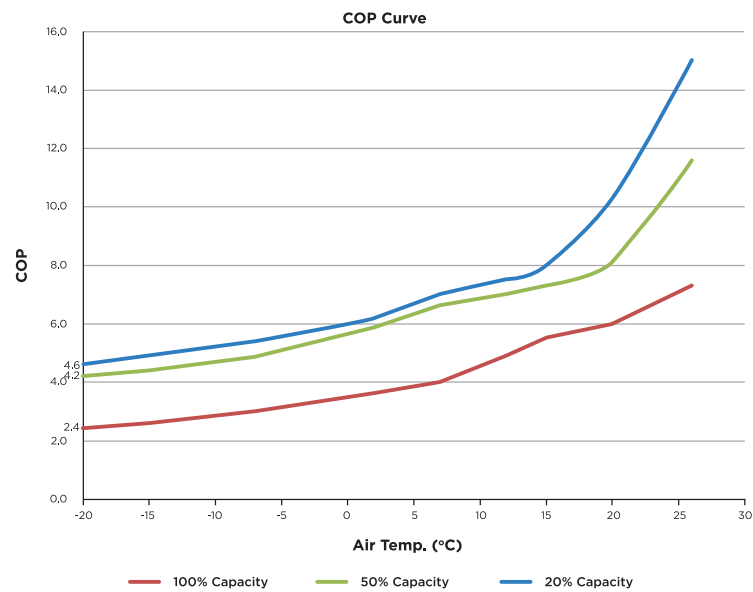
Pool Heat Pump 120kW



Heating Capacity -
Water Temperature 26°C

Air temperature (°C)	100% Capacity	50% Capacity	20% Capacity
26	119.7	59.5	23.8
20	98.6	48.3	19.8
15	85.5	42.8	17.1
12	80.0	40.1	15.3
7	71.0	36.0	14.4
2	61.6	30.4	12.1
-7	46.3	23.6	9.4
-15	35.9	17.5	7.0
-20	28.2	13.3	5.3

Remark: water temperature 26°C



Coefficient Of Performance -
Water Temperature 26°C

Air temperature (°C)	100% Capacity	50% Capacity	20% Capacity
26	7.3	11.6	15.0
20	6.0	8.1	10.3
15	5.5	7.3	8.0
12	4.9	7.0	7.5
7	4.0	6.6	7.0
2	3.6	5.9	6.2
-7	3.0	4.9	5.4
-15	2.6	4.4	4.9
-20	2.4	4.2	4.6

Remark: water temperature 26°C

*(27/27/80) = Air Temp: 27° / Water Temp 26° / Humidity 80%

Specifications subject to change without notice