



Mining Water Chiller



NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

Advantages

- Stainless steel manufacture
- Copper/Copper condenser
- Blygold painting
- Copeland compressor
- Axial fan
- Australian standards

Functions



Cooling



C&H



Heat Recovery

Structure

The master module can work independently or together with up to 15 slave modules.

Hermetic Compressor

3-phase scroll type compressor, with built -in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.

Axial Fan

External rotor type axial fans, equipped with three phase direct drive motors, low noise 8 poles, protection level IP54, provided with a protective outlet grille.

Evaporator

Evaporator built with high efficiency tube in tube type heat exchanger, factory insulated with flexible close cell material.

Condenser

Condenser built with seamless internal screw thread copper tubes mechanically expanded into blue wavehydrophilic copper fins.

Refrigerant Circuit

Refrigerant circuit complete with charge valves, filter drier, sight glass, gas-liquid separator, thermostatic expansion valve, high & low pressure switch. The heat pump unit is also completed with 4 way valve, liquid receiver and one way valve.

Hydraulic Circuit

Hydraulic circuit built with galvanised pipe, complete with water discharge connection for tube in tube heat exchanger and flange type hydraulic connectors in two directions easy for connections from both side of the units.

Electrical Panel

Electric panel consists of: compressor contactor, fan motor contactor, compressor protection breaker, fan protection breaker, phase sequence relay and microprocessor with function display (optional).

Optional

- Paddle flow switch
- Metallic filter for hydraulic circuit
- Water pump
- Rubber anti-vibration mounting
- BMS
- Mild steel
- Heat recovery 20-30%
- Flange
- Remote condenser
- Four or six compressors
- Plate heat exchanger
- Aluminum condenser

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Model			NPAWC88
Copeland Comp Qty			4
Refrigerant Type			R407C
Power		V-Ph-Hz	380-415, 3, 50
Cooling	Cooling Capacity	kW	88
	Input power	kW	26.62
	Current	A	53.7
Heating	Heating Capacity	kW	87.3
	Input Power	kW	26.74
	Current	A	53.82
Compressor	Type		Scroll
	Model		ZR94KCE-TFD
	Input Power	W	6.28x4
	Running Current	A	12.01x4
Axial Fan	Quantity	Nr.	2
	Air Flow	m3/h	35800
Expansion Valve			Thermal Expansion
Noise		dB(A)	≤72
Water Flow		m3/h	15.1
In/Out Water Pipe		mm	DN50
Water Pressure Drop		kpa	38
Dimensions (LxWxH)		mm	2020x1000x1920
Net Weight		kg	830

