



Commercial Heat Pumps

"Our commercial heat pumps utilize a direct heating methodology for optimised hot water storage"



Water heating up to 60°C



High reliability



Low maintenance



Easy installation



Expert service & support



Environmentally friendly refrigerants

FEATURES & BENEFITS

The heating capacities range between 20 kW and 90 kW.

Multiple units can be installed together thus catering for any client's needs.

The direct heating capability of the ECDH-MT series means that hot water is directly heated and available at 55°C to 60°C.

Between 50% and 70% energy savings are obtained compared to using a conventional electrical boiler.

Enerflow heat pumps aim to maximise value for money in terms of the life cycle cost. This does not necessarily imply the lowest initial cost, but rather focuses on quality, reliability and the capitalised operating cost, including the impact of peak demand and electricity consumption tariffs.

Our ECDH-MT series heat pumps are ideally suited for supplying hot water in the following applications:

Change houses
Hospitals
Residences
Agricultural heating requirements

Industrial & commercial process water
Abattoirs
Hotels
Hostels



Product of
M-Tech
industrial

*Enerflow is a proud division of M-Tech Industrial (Pty) Ltd;
owned by Royal Bafokeng Holdings

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ECDH-MT series

SPECIFICATIONS		ECDH 20MT	ECDH 35MT	ECDH 45MT	ECDH 55MT	ECDH 70MT	ECDH 90MT
Heating capacity*	kW	18	36.3	43.7	54.4	69.8	87.4
Coefficient of performance (COP)*		4.6	4.7	4.6	4.7	4.6	4.6
Rated heated water output	ℓ/h	380	780	940	1170	1500	1880
Rated outlet water temperature Maximum outlet water temperature	°C	55 60					
Rated current*	Amp	7.4	14.8	17.9	22.0	28.9	35.8
Power supply	V/Ph/Hz	380-415/3/50					
Rated power input*	kW	3.9	7.8	9.5	11.6	15.2	18.9
Maximum current	Amp	12.8	22.2	26.2	33.0	43.4	53.7
Maximum power input	kW	6.7	11.7	14.2	17.4	22.8	28.2
Recommended Curve-1 motorized breaker size	Amp	20-20	35-31	45-40	55-50	70-50	90-63
Suggested cable size		Refer to installation manual					
Compressor type		Scroll					
Number of compressors		1	2				
Refrigerant type		R417a (R407c on request)					
Noise level at 1 meter distance	dB	62	63	63	66	68	68
Water connection size (Female)	mm	DN 25	DN 40	DN 40	DN 40	DN 50	DN 50
Cabinet material		Powder coated galvanized steel (Stainless steel on request)					
Dimensions (w x d x h)	mm	1110 x 530 x 1260	1450 x 705 x 1375	1450 x 705 x 1375	1445 x 850 x 1850	1990 x 980 x 2045	1990 x 980 x 2045
Net weight	Kg	137	276	305	380	552	586
Heat exchanger (hot water)		High efficiency tube-in-tube heat exchanger					
Heat exchanger (air)		Copper tubes and aluminium fins with corrosion resistant coating					
Fan discharging		Horizontal	Vertical				
Number of fans		2					
Ambient operating temperature	°C	-7 to 43					

*Test standard: Ambient temperature of 20/15°C (DB/WB)

Water inlet / outlet temperature of 15°C / 55 °C