



Commercial Heat Pumps

“
Our commercial heat pumps utilize a direct heating methodology for optimised hot water storage.
”

FEATURES & BENEFITS



Water heating up to 60°C



High reliability



Low maintenance



Easy installation



Expert service & support



Environmentally friendly refrigerants

- 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

The imported ECDH-MT range was designed locally for South African conditions by M-Tech Industrial, a specialist engineering company.*



www.enerflow.co.za

Contact us:

+27 (0)18 297 0326/7

heatpump@enerflow.co.za

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

Commercial Heat Pumps

ECDH-MT series

SPECIFICATIONS

		ECDH 20MT	ECDH 35MT	ECDH 45MT	ECDH 55MT	ECDH 70MT	ECDH 90MT
Heating capacity*	<i>kW</i>	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*	<i>ℓ/h</i>	380	780	940	1170	1500	1880
Rated outlet water temperature*	<i>°C</i>	60					
Rated current*	<i>Amp</i>	7.4	14.8	17.9	22.0	28.9	35.8
Power supply	<i>V/Ph/Hz</i>	380-415/3/50					
Rated power input*	<i>kW</i>	3.9	7.8	9.5	11.6	15.2	18.9t
Maximum current	<i>Amp</i>	12.8	22.2	26.2	33.0	43.4	53.7
Maximum power input	<i>kW</i>	6.7	11,7	14.2	17.4	22.8	28.2
Recommended Curve-1 motorized breaker size	<i>Amp</i>	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	<i>dB</i>	62	63	63	66	68	68
Water connection size (Female)	<i>mm</i>	25	32	40	40	50	50
Cabinet material		Powder coated galvanised steel (Stainless steel on request)					
Dimensions (w x d x h)	<i>mm</i>	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	<i>kg</i>	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	<i>°C</i>	-7 to 43					

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