

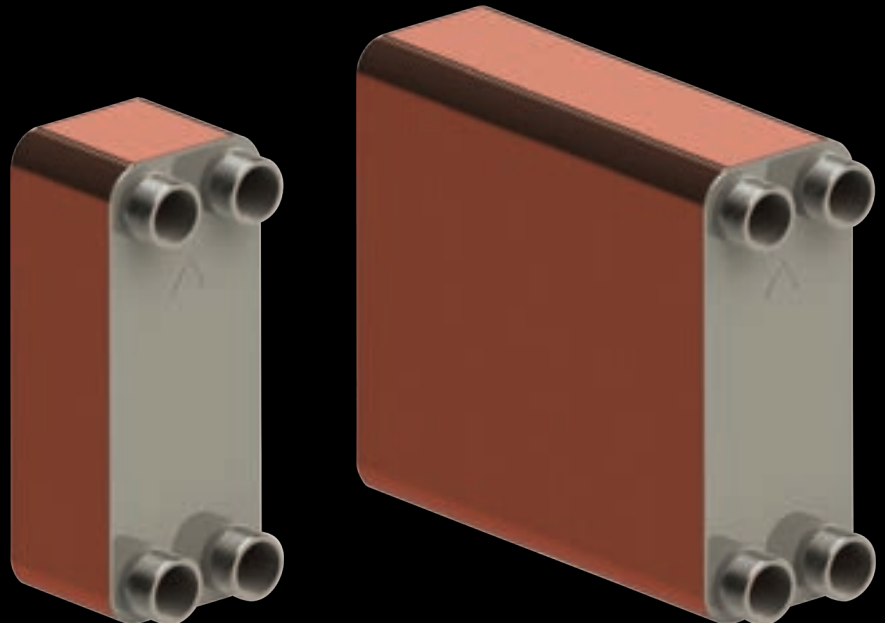
HEAT EXCHANGERS



WaterMark Certified

316 Stainless Steel

Water to Water Applications



The Rheem Brazed Plate Heat Exchanger (BPHX) can be used wherever waste heat from water sourced processes can be recovered and used to heat potable hot water. Typical applications include Co-gen and Tri-gen plants, process heating or as a separator in circuits employing PP-R piping.

Features

- WaterMark certified heat exchanger
- 316L stainless steel construction
- Single wall brazed plate heat exchanger
- Low pressure loss
- Suitable for water to water only applications

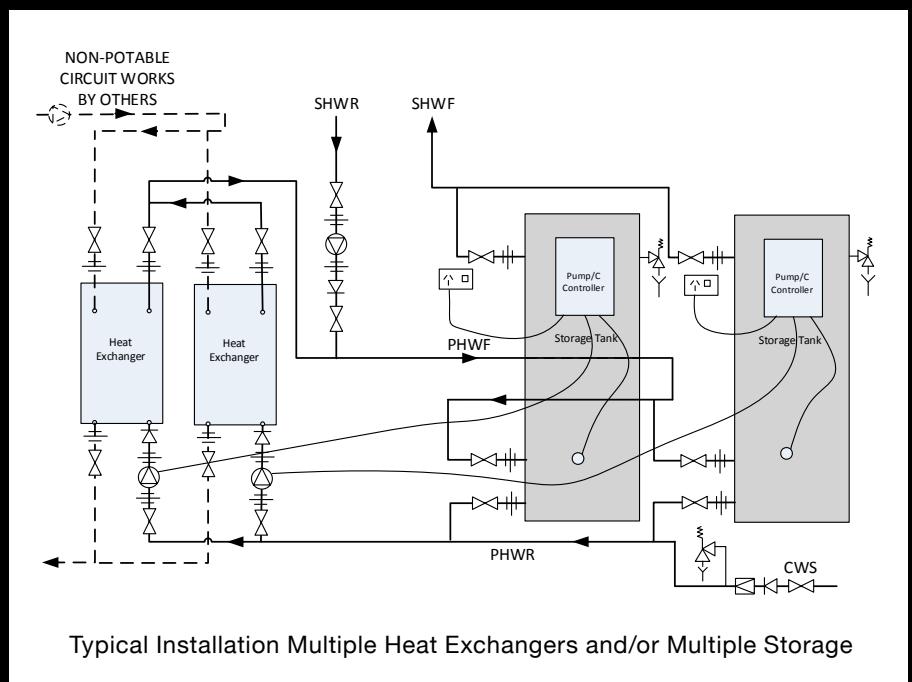
Accessories

Pump C Controller P/No 6060262-4
Rheem 610340 and 610430 vitreous enamel storage tanks or a range of large capacity stainless steel tanks (1000L-5000L) available from Rheem.

Warranty

- 1 year parts and labour

For full terms and conditions please contact Rheem or see Owner's Guide and Installation Instructions, available at www.rheem.co.nz/warranty



DIMENSIONS AND TECHNICAL DATA TABLE							
Model			B12Mtx30	B12Mtx54	B12Mtx80	B12Mtx104	B12Mtx128
Part Number			0191750	0191751	0191752	0191753	0191754
Nominal Rating		kW	50	100	150	200	250
Parameters for Nominal Rating	Non Potable Side						
	Inlet/Outlet Temp	°C	80/60	80/60	80/60	80/60	80/60
	Flow Rate	L/sec	0.61	1.22	1.83	2.44	3.05
	Pressure Drop	kPa	2.65	3.74	5.00	6.98	9.83
	Potable Side						
	Inlet/Outlet Temp	°C	45/65	45/65	45/65	45/65	45/65
	Flow Rate	L/sec	0.61	1.21	1.82	2.43	3.03
Pressure Drop	kPa	2.39	3.59	4.91	6.91	9.79	
Dimensions	L x W x D	mm	287 x 117 x 104	287 x 117 x 160	287 x 117 x 221	287 x 117 x 277	287 x 117 x 333
Connections		Male	G1/14	G1/14	G1/14	G1/14	G1/14
Weight		kg	6	9	12	15	18
Operating Pressure		kPa	3000kPa*				

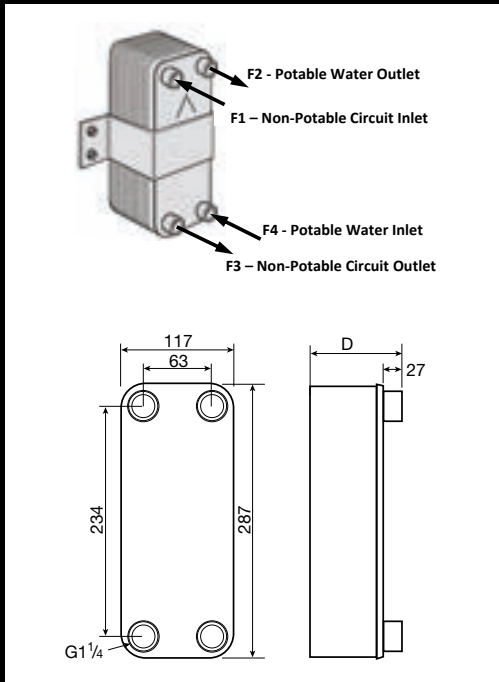
*The maximum working pressure of each side of the system will be governed by the lowest operating appliance connected to it. The potable side water pressure must be higher than the non potable side pressure.



Potable Side Pump and Pipe Sizing

The following table provides a guide for pipe sizing and pump selection for the potable side only, for up to three heat exchangers manifolded in parallel.

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HEAT EXCHANGER MODEL	QTY IN PARALLEL	OUTPUT (kW)	DESIGN FLOW RATE (L/SEC)	MIN. POTABLE PRIMARY F & R PIPE SIZE (MM)	PUMP MODEL/ SPEED SETTING
B12Mtx30	1	50	0.61	32	UPS20-60N/3
B12Mtx30	2	100	1.22	40	UPS32-80N/3
B12Mtx30	3	150	1.83	50	UPS32-80N/3
B12Mtx54	1	100	1.21	40	UPS32-80N/3
B12Mtx54	2	200	2.42	50	UPS40-60/2FB/2
B12Mtx54	3	300	2.63	65	UPS40-60/2FB/3
B12Mtx80	1	150	1.82	50	UPS32-80N/3
B12Mtx80	2	300	3.64	65	UPS40-60/2FB/3
B12Mtx80	3	450	5.46	80	UPS50-120/FB/2
B12Mtx104	1	200	2.43	50	UPS40-60/2FB/3
B12Mtx104	2	400	4.86	80	UPS50-120/FB/1
B12Mtx104	3	600	7.29	100	UPS50-120/FB/3
B12Mtx128	1	250	3.03	65	UPS40-60/2FB/3
B12Mtx128	2	500	6.06	80	UPS50-120/FB/3
B12Mtx128	3	750	9.09	100	UPS80-120/FB/1

NOTE: Pipe sizing, pump selection and installation of the NON-POTABLE circuit is not covered by Rheem.

Pipe and pump sizing is for potable water side only between the heat exchanger and storage tank/s and is based on 25m TOTAL pipe run and 20 x 90° bends. If the piping is beyond this scope, please contact Rheem for assistance

Rheem New Zealand Limited

Freephone 0800 657 336

Freefax 0800 657 337

Telephone 09 829 0200

475 Rosebank Road, Avondale 1026

PO Box 19011, Avondale, Auckland 1746, New Zealand

www.rheem.co.nz

All specifications contained in this brochure are subject to change without notice. Please check the specifications are current at the time of ordering or building to incorporate the appliance. All information is current at the time of publication, (June 2022) but may change without notice.