

ER/FR Series - Low Pressure Braze Plate Heat Exchanger



ER Series

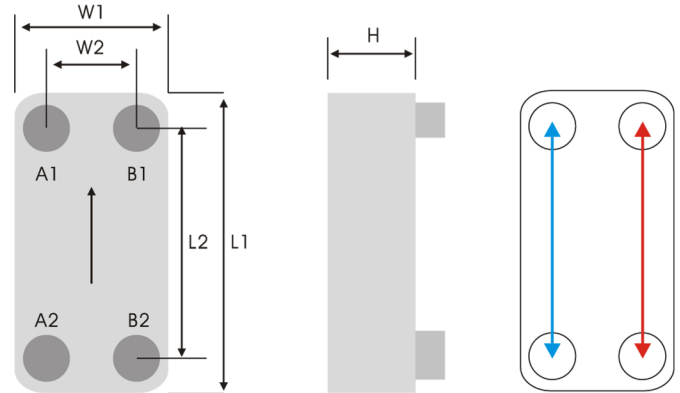
FR Series

The ER / FR series is aimed at the specification of small volume water to water application.

ER series features a flat cover plate design. The FR series features an economical design (without a flat cover plate); also, multi-pass pattern are available upon different working conditions and requests.

Main applications: Residential gas boilers, district heating, solar heating systems.

Braze Material		Copper			
Model	FR-025	ER-030	ER-040	ER-060	
		(A1,A2/B1,B2)			
Max. Working Pressure (bar)	10/10				
Min. Test Pressure (bar)	15/15				
Max. Working Temperature (°C)	200 °C				



Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Thick-ness (mm)	Weight (kg)	Heat Transfer Area / Plate (m ²)	Total Heat Transfer Area (m ²)	Volume / Channel (liter)	Total Vol-ume (liter)
F025	206.2	172	74.2	40 / 42	6.5+2.27*N	0.38+0.040*N	0.0120	(N-2)*0.0120	0.025	(N-1)*0.025
E030	194.5	154	80.5	40	7.0+2.25*N	0.47+0.047*N	0.0117	(N-2)*0.0117	0.025	(N-1)*0.025
E040	311	278	73	40	9.0+2.30*N	0.80+0.070*N	0.0195	(N-2)*0.0195	0.040	(N-1)*0.040
E060	466	432	74	40	9.0+2.30*N	0.80+0.10*N	0.0302	(N-2)*0.0302	0.064	(N-1)*0.064

N: Number of plates

Model Selection Chart

RT	kW	BTU/H	Hot Water Temp.	Cold Water Temp.	FR-025	ER-030	ER-040	ER-060
1.0	3.5160	12000	70 C --> 50 C	10 C --> 60 C	FR-025x12	ER-030x12		
2.0	7.0320	24000	70 C --> 50 C	10 C --> 60 C	FR-025x16	ER-030x16		
3.0	10.5480	36000	70 C --> 50 C	10 C --> 60 C	FR-025x22	ER-030x22		
4.0	14.0640	48000	70 C --> 50 C	10 C --> 60 C	FR-025x26	ER-030x26		
5.0	17.5800	60000	70 C --> 50 C	10 C --> 60 C	FR-025x32	ER-030x32	ER-040x10	
7.5	26.3700	90000	70 C --> 50 C	10 C --> 60 C	FR-025x44	ER-030x44	ER-040x14	ER-060x10
10.0	35.1600	120000	70 C --> 50 C	10 C --> 60 C	FR-025x56	ER-030x56	ER-040x18	ER-060x12
15.0	52.7400	180000	70 C --> 50 C	10 C --> 60 C			ER-040x26	ER-060x18
20.0	70.3200	240000	70 C --> 50 C	10 C --> 60 C			ER-040x36	ER-060x24
25.0	87.9000	300000	70 C --> 50 C	10 C --> 60 C			ER-040x50	ER-060x30
30.0	105.480	360000	70 C --> 50 C	10 C --> 60 C				ER-060x40

Note: The above information is for reference only; the data will be different under various working conditions and specifications.

