

VEVOR[®]

TOUGH TOOLS, HALF PRICE

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PLATE EXCHANGER

Model: EATB28-30/EATB28-50/EATB28-80/EATB28-100
EATB12-30/EATB12-40/EATB12-60

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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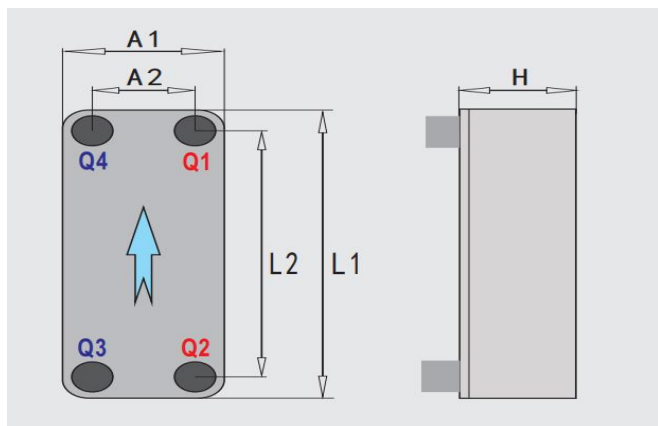
NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



Parameter List



Model	Dimension (mm) (L1*A1*H)	Maximum Working Pressure (Mpa)	Panel Quantity (pcs)	Connector (Q1Q2Q3 Q4)	Net Weight (kg)	Side Volumen (Q1-Q2/ Q3-Q4) (L)
EATB 28-30	301*126*8 5	3.0	30	4*1-1/4"N PT	5.85	0.84L/0.7 28L
EATB 28-50	301*126*1 31	3.0	50	4*1-1/4"N PT	8.52	1.4L/1.28 8L
EATB 28-80	301*126*2 01	3.0	80	4*1-1/4"N PT	12.51	2.24L/2.1 28L
EATB 28-10 0	301*126*2 48	3.0	100	4*1-1/4"N PT	15.2	2.8L/2.68 8L
EATB 12-30	190*76*85	3.0	30	4*3/4"NPT	2.1	0.24L/0.2 08L
EATB 12-40	190*76*10 9	3.0	40	4*3/4"NPT	2.5	0.32L/0.2 88L

EATB 12-60	190*76*15 9	3.0	60	4*1/2"G	3.3	0.48L/0.4 48L
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Part List

Model	Picture	EATB28-30/50/80/100	EATB12-30/40/60
Plate Exchanger		1	1
Installing Support		2	2

Security & Warnings

1.This product should be used for welding spigots when using refrigerant to avoid refrigerant leakage.

2.If undissolved solids like sand, weeds, leaves, and other fibers are in the water, the channels are easily blocked; we recommended using a 40~70 mesh strainer to avoid blocking.

3.Any heat exchanger could freeze up when the temperature is below zero. Freezing up inside the heat exchanger will result in structural damage and leaking. If leaking happens in the evaporator, even the compressor could be destroyed. In order to avoid freezing:

* Use a freeze protection thermostat and flow switch to guarantee a consistent water flow before, during and after compressor operation

*Avoid operation the unit during pump downtimes, Discharge the water when the exchanger is left unused and keep heating the water when in use.

*Use antifreeze when the evaporating temperature is close to liquid side freezing, Adding glycol or other antifreezing in the water .

4. Cleaning: Regular reverse flushing insitu is the simplest option. If however, scaling has occurred, chemical cleaning will be necessary, Clean with detergents for fatty deposits (without chlorine), for heavier

fouling use chemicals compatible with copper and stainless steel such as formic, citric or any other organic acids. Use weak acid cleaning liquid pumped through the heat exchanger in reverse flow direction at approximately twice the normal flow rate. Remember that the cleaning acid should be circulated in reverse flow for usually 24 hours. At the completion of the cleaning process, it is important that the unit be flushed with clean water for at least 30 minutes.

5. Suitable Medium:

* Any refrigerants except ammonia, chlorine and DI water

* water, vapor

* oil, Organic solvents, Gas

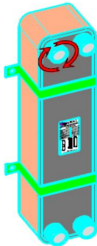
* PH 6~8

* Please pay attention to the operating temperature and design pressure on the PHE

Operation

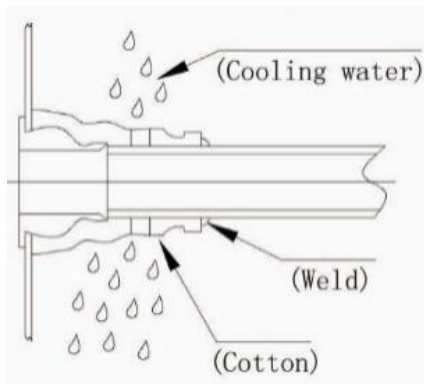
1. Screw thread link

In order to avoid danger to the components, there will be no load to the link between BPHE and the piece; you need to use a screw cap and airproof circle to airproof. Use the ergometer to refer to the data in the table to do the screw thread link.

Model	Torque	
EATB12-30/40/60	《170 Nm	
EATB28-30/50/80/100	《400 Nm	

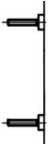
2. Copper brazing link

Clean the weld surface and brush on the flux, using 40-50 silver-based rods for welding; the maximum temperature does not exceed 650 °C (1202F) ; cooling water into the water-side and in the vicinity of the welding department to impose an appropriate cooling and the refrigerant-side injection with Nitrogen to avoid oxidation.



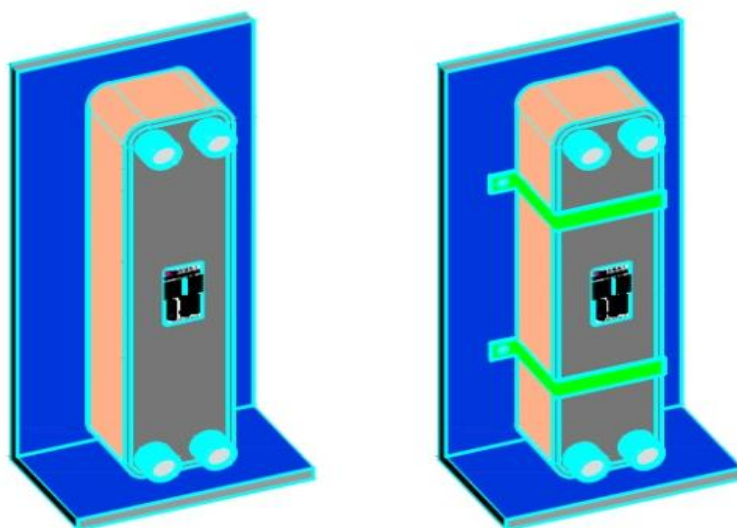
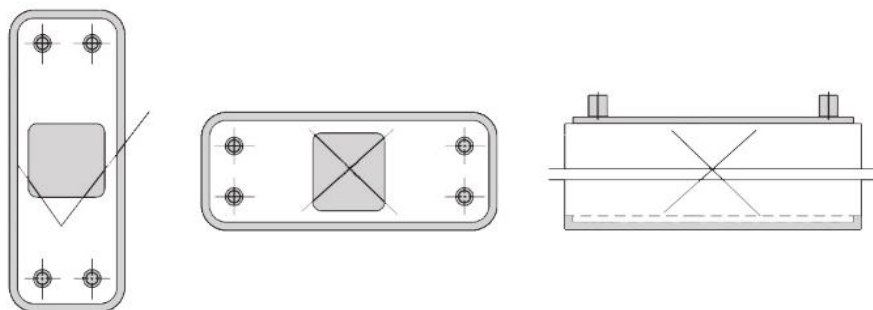
3. Bolt Fastening

In order to avoid excessive torque lead to bolt come off and the back cover plate deformation, using the measuring wrench according to the data listed on the table to fasten the bolt.

Blot	M6	1/4"	M8	M10	M12	
Torque	《10Nm	《12Nm	《15Nm	《18Nm	《22Nm	

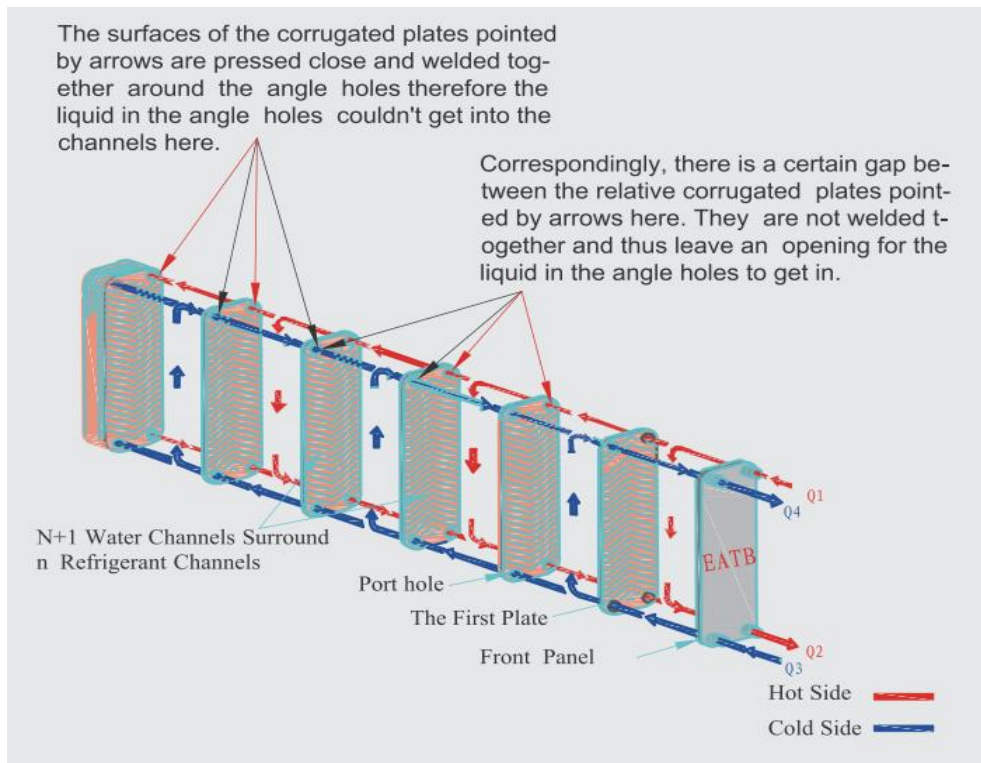
4. Installation

Please refer to nameplate's connected tube sketch and installation drawing. Moreover, customer should configure a connected tube accurately, and install brazed plate heat exchanger vertically.

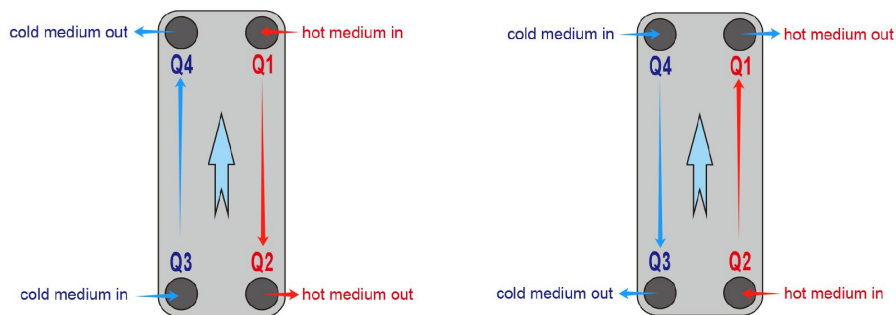


If the pipeline has vibration, longer pipe and higher thermal expansion, which will affect brazed plate heat exchanger. You'd better consider adopting the following devices: install rubber pad between brazed plate heat exchanger and bracket; compressor with shock absorber, and use corrugated pipe or other damping devices when straight pipe is longer.

5. Working Schematic Diagram



Please connection as below($Q1 \rightleftharpoons Q2$, $Q3 \rightleftharpoons Q4$):



Note: When the PHE use to the evaporator, the refrigerant must $Q2 \rightarrow Q1$ or $Q3 \rightarrow Q4$.

When the PHE use to the condenser, the refrigerant must $Q1 \rightarrow Q2$ or $Q4 \rightarrow Q3$.

If you do not take over as shown in the figure above, there will be two media mixed together or no media outflow.

6. Exchanger Selection

Note: The data in () is the default value, you may fill in this form with appropriate data. If the heating capacity is indeterminate, please provide the Flow Rate value within the dotted line.

Exchanger Selection		
Capacity	Fluid 1	Fluid 2
<div></div>	<div></div>	<div></div>
Max dp (50kPa)	Side 1 Inlet Temp.	Side 2 Inlet Temp.
<div></div>	<div></div>	<div></div>
	Side 1 Outlet Temp.	Side 2 Outlet Temp.
	<div></div>	<div></div>
	Flow Rate	Flow Rate
	<div></div>	<div></div>

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