TB10T Brazed Plate Heat Exchanger

The TB10T delivers efficient heat exchange solutions across a wide capacity interval, and is quick and simple to adapt for a number of applications. The product's compact size, versatility, and excellent heat transfer make it a perfect choice for both single-phase and refrigerant applications.



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Supersedes: New

Effective Date: 01/27/16
Printed in USA

TB10T Heat Exchanger

Available connections*



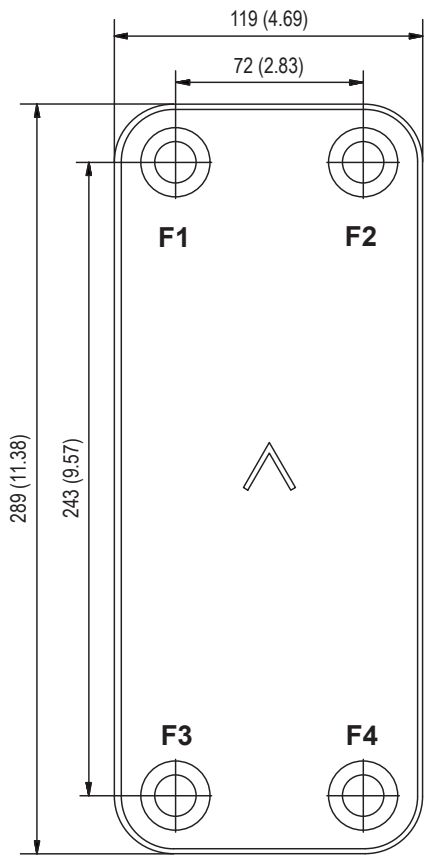
Externally threaded | Victaulic | Internally threaded | Soldering | Internally threaded hexagonal exterior

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

Pressure classes

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).
M Medium, evaluated per EN 13345 (38-48 bar/550-696 PSI).
H High, evaluated per EN 13345 (42-56 bar/609-812 PSI).

Max number of plates (NoP)	140
Port size F1/P1	24 mm (0.945 in)
Port size F2/P2	24 mm (0.945 in)
Port size F3/P3	24 mm (0.945 in)
Port size F4/P4	24 mm (0.945 in)
Max volume flow	9 m³/h (39.6 gpm)



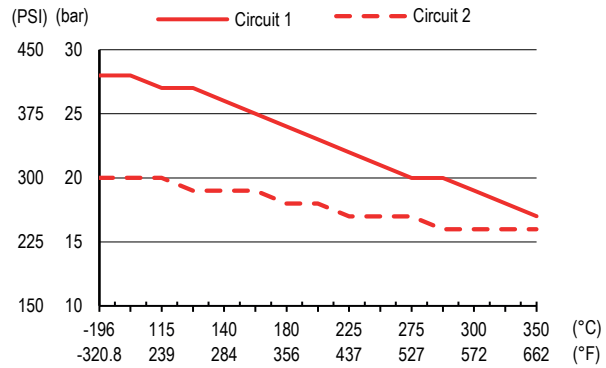
Materials	Channel plate	Brazing
SC	Stainless steel	Copper
NC	Stainless steel	Copper
SN	Stainless steel	Nickel
SPS	Stainless steel	Stainless steel
SPF	Stainless steel	Stainless steel

Size	Height of plate pack	Total weight
SC M SC S NC S	4+(2,24×NoP) mm	1,15+(0,096×NoP) kg
	0.157+(0,088×NoP) in	2.54+(0.212×NoP) lb
SC H	8+(2,24×NoP) mm	2,1+(0,096×NoP) kg
	0.315+(0.088×NoP) in	4.63+(0.212×NoP) lb
SPF S	4+(2,27×NoP) mm	1,16+(0,086×NoP) kg
	0.157+(0.089×NoP) in	2.55+(0.189×NoP) lb
SPS M	4+(2,24×NoP) mm	1,24+(0,096×NoP) kg
	0.157+(0.088×NoP) in	2.73+(0.212×NoP) lb
SN S	4+(2,27×NoP) mm	1,17+(0,086×NoP) k
	0.157+(0.089×NoP) in	2.59+(0.212×NoP) lb

TB10T Performance Curves

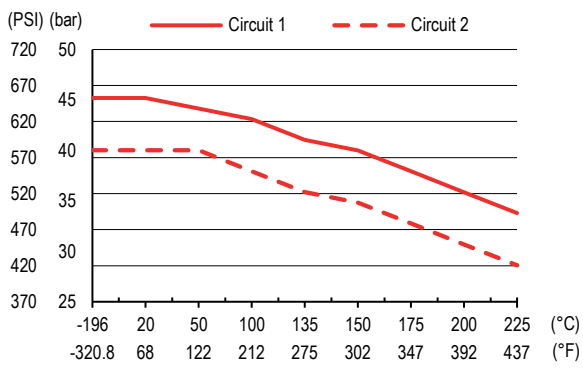
PED

SPS

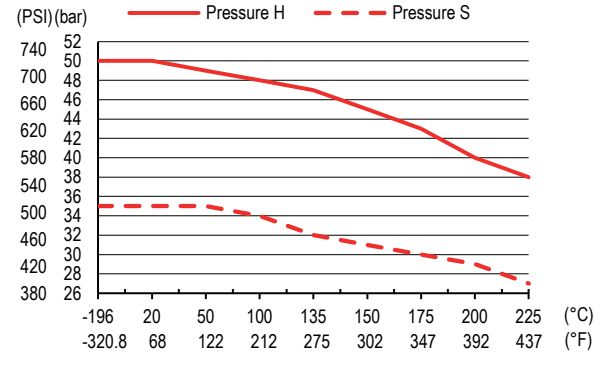


PED

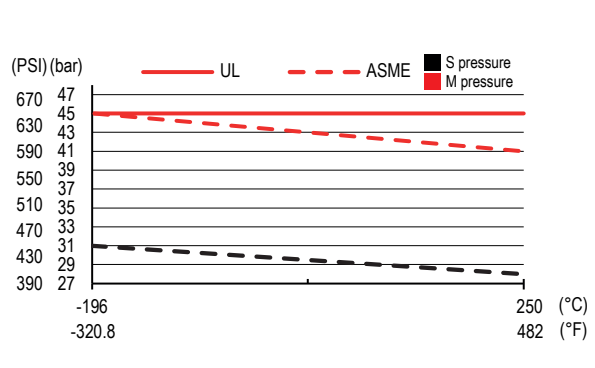
Pressure M



PED



UL / ASME



Third party approvals

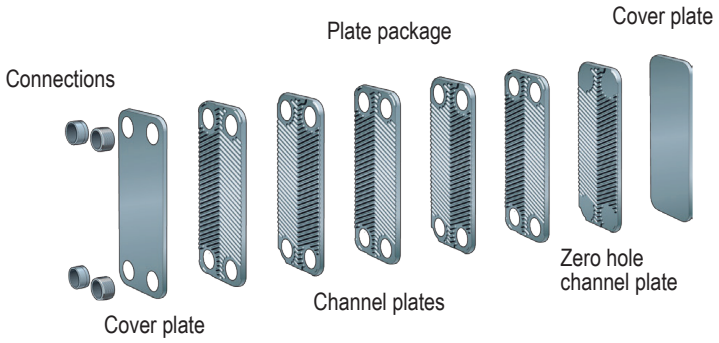
Taco BPHEs are generally approved by listed below certification organizations:

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Calculation Software

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TB12 Brazed Plate Heat Exchanger

The large-port TB12 delivers compact heat transfer solutions for applications with large flows. It is available with different plate patterns to fulfil various thermal duties across a wide range of fluid viscosities and densities. The TB12 is an excellent choice for demanding steam and air dryer applications. It can be as a desuperheater in air conditioning and a CO_2 suction gas heat exchanger in refrigeration.



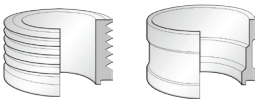
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Supersedes: New

Effective Date: 01/27/16
Printed in USA

TB12 Heat Exchanger

Available connections*



Externally threaded

Soldering

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

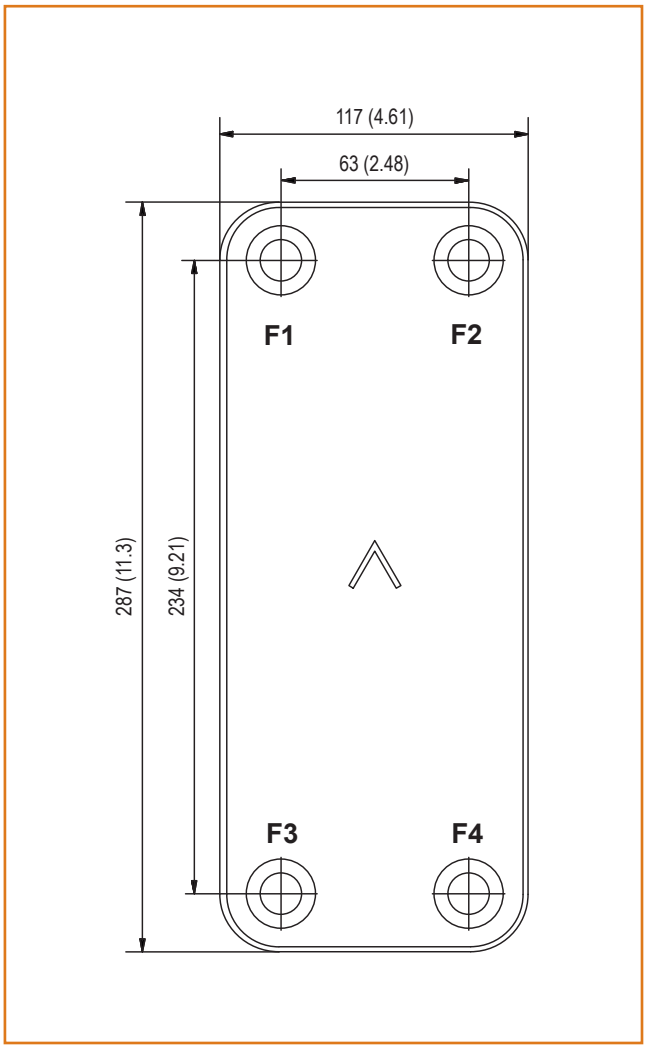
Pressure classes

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).

H High, evaluated per EN 13345 (42-56 bar/609-812 PSI).

D Higher, developed for CO_2 applications, evaluated per EN 13445 (up to 60 bar/870 PSI).

Max number of plates (NoP)	110/140
Port size F1/P1	33 mm (1.3 in)
Port size F2/P2	33 mm (1.3 in)
Port size F3/P3	33 mm (1.3 in)
Port size F4/P4	33 mm (1.3 in)
Max volume flow	17 m³/h (74.8 gpm)



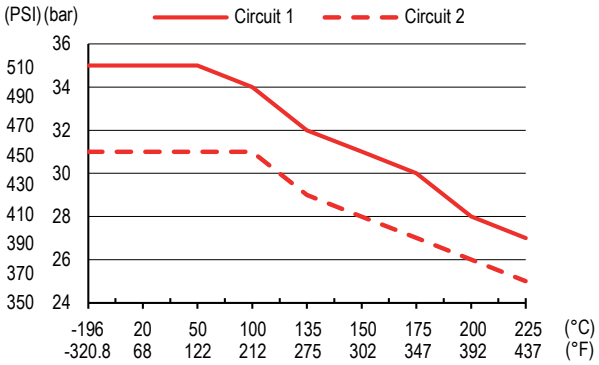
Materials	Channel plate	Brazing
SC	Stainless steel	Copper
NC	Stainless steel	Copper
SN	Stainless steel	Nickel

Size	Height of plate pack	Total weight
SC S SN S NC S	4+(2,34×NoP) mm	1,12+(0,12×NoP) kg
	0.157+(0.092×NoP) in	2.47+(0.265×NoP) lb
SC D SC H	12,4+(2,34×NoP) mm	2,94+(0,12×NoP) kg
	0.488+(0.092×NoP) in	6.49+(0.265×NoP) lb

TB12 Performance Curves

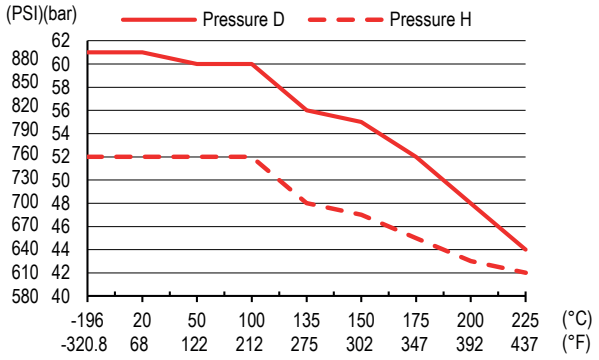
PED

Pressure S



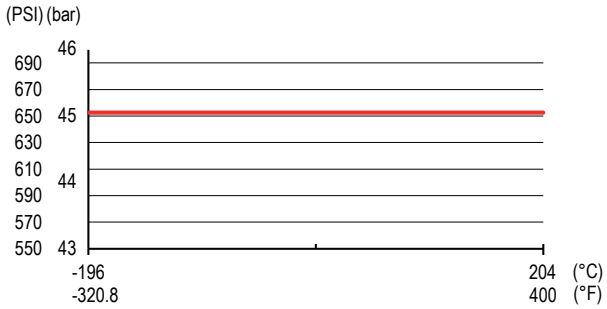
PED

Pressure H, D



UL

Pressure S



Third party approvals

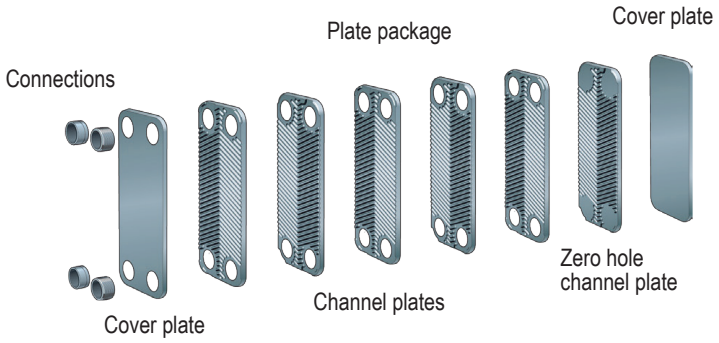
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TB120T Brazed Plate Heat Exchanger

The TB120T has been specially developed to operate in demanding heating and industrial applications, typically water-water applications and oil coolers. The product has contributed to the rapid switch to BPHEs from traditional gasket plate heat exchangers and shell-and-tube solutions. It is widely used as a condenser in air conditioning and refrigeration.



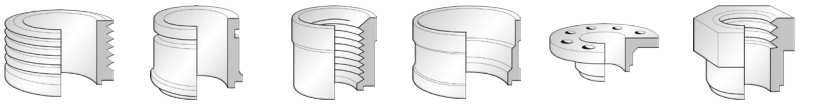
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Printed in USA

TB120T Heat Exchanger

Available connections*



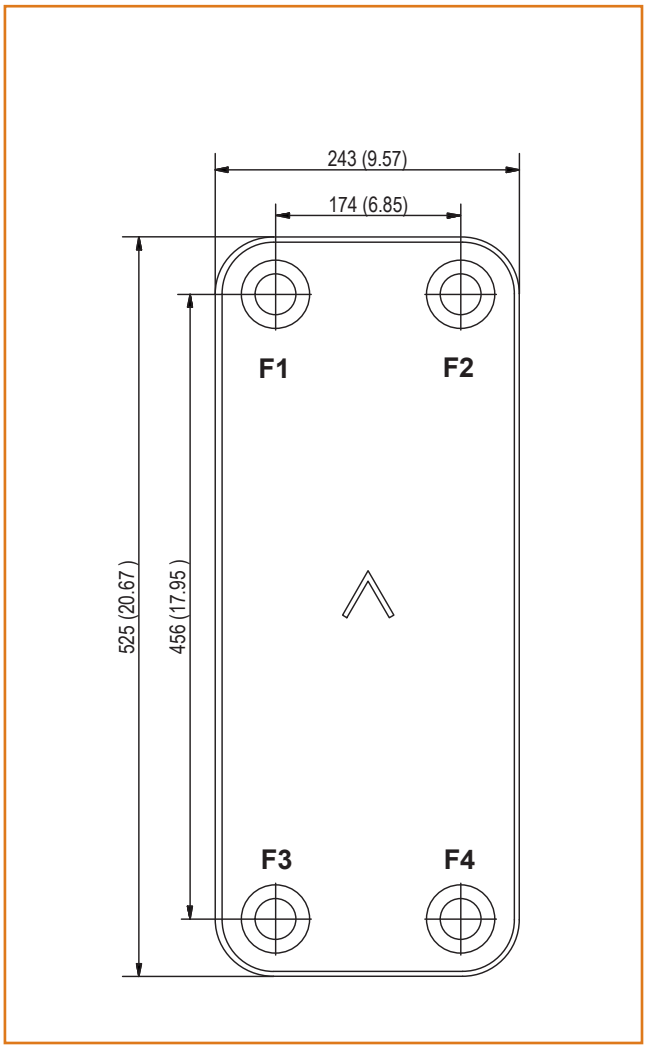
Externally threaded | Victaulic | Internally threaded | Soldering | Flanges DIN/DNC | Internally threaded hexagonal exterior

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

Pressure classes

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).
M Medium, evaluated per EN 13345 (38-48 bar/550-696 PSI).
F Intermediate, evaluated per EN 13345 (up to 50 bar/725 PSI).
H High, evaluated per EN 13345 (42-56 bar/609-812 PSI).
E Higher, developed for CO_2 applications, evaluated per EN 13445 (up to 56 bar/812 PSI).

Max number of plates (NoP)	250
Port size F1/P1	42 mm (1.654 in)
Port size F2/P2	42 mm (1.654 in)
Port size F3/P3	42 mm (1.654 in)
Port size F4/P4	42 mm (1.654 in)
Max volume flow	27 m³/h (118.8 gpm)



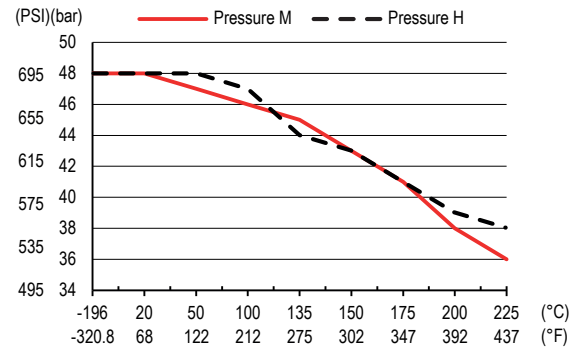
Materials	Channel plate	Brazing
SC	Stainless steel	Copper
NC	Stainless steel	Copper
MC	Mo-steel	Copper

Size	Height of plate pack	Total weight
SC S SC M NC S NC M MC S	10+(2,29×NoP) mm	8,33+(0,404×NoP) kg
	0.394+(0.09×NoP) in	18.36+(0.891×NoP) lb
SC F	14+(2,29×NoP) mm	9,62+(0,404×NoP) lb
	0.551+(0.09×NoP) in	21.21+(0.891×NoP) lb
SC H	14+(2,29×NoP) mm	11,16+(0,404×NoP) lb
	0.551+(0.09×NoP) in	24.60+(0.891×NoP) lb
SC E	18+(2,29×NoP) mm	12,45+(0,404×NoP) kg
	0.709+(0.09×NoP) in	27.45+(0.891×NoP) lb

TB120T Performance Curves

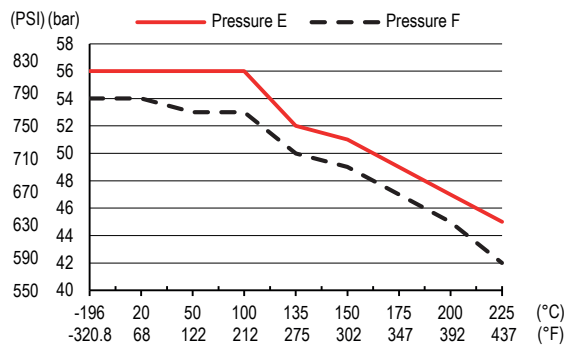
PED

Pressure M, H



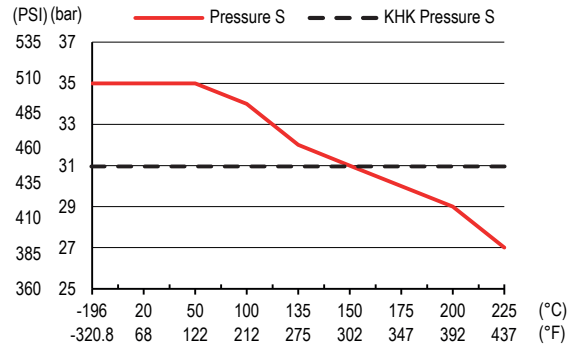
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Pressure E, F

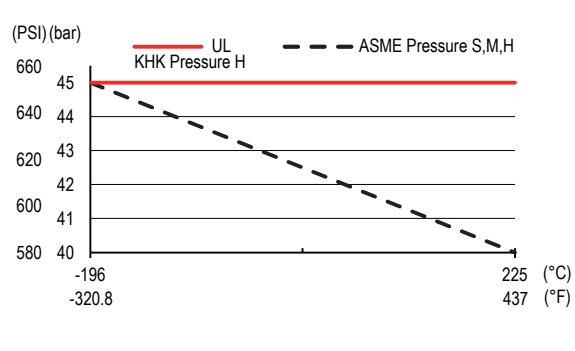


PED / KHK

Pressure S



UL / KHK / ASME



Third party approvals

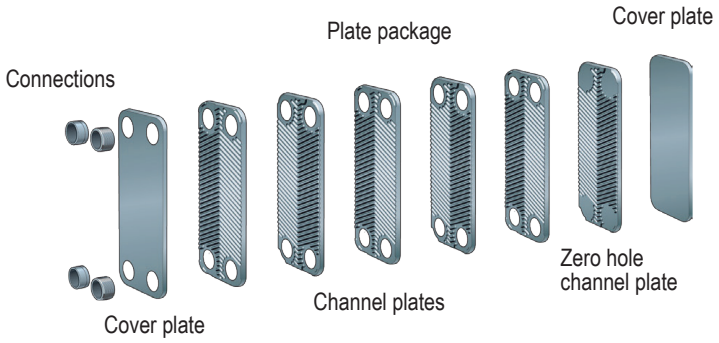
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TB16DW Brazed Plate Heat Exchanger

This double-wall product is designed for applications requiring high thermal efficiency, minimal leakage, and improved leak detection. The design offers the same compactness and thermal performance as other Taco BPHEs.



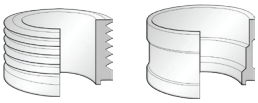
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©Taco Catalog #200-2.7
Supersedes: New

Effective Date: 01/27/16
Printed in USA

TB16DW Heat Exchanger

Available connections*



Externally threaded

Soldering

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

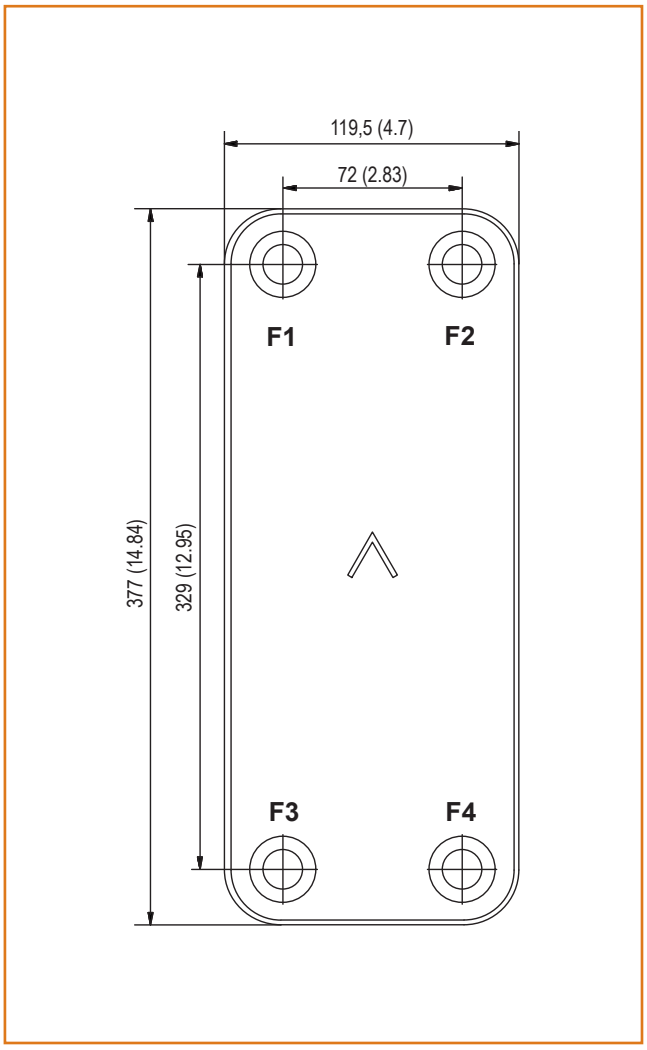
Pressure classes

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M Medium, evaluated per EN 13345 (38-48 bar/550-696 PSI).

H High, evaluated per EN 13345 (42-56 bar/609-812 PSI).

Max number of plates (NoP)	140
Port size F1/P1	27 mm (1.063 in)
Port size F2/P2	27 mm (1.063 in)
Port size F3/P3	27 mm (1.063 in)
Port size F4/P4	27 mm (1.063 in)
Max volume flow	11 m³/h (48.4 gpm)

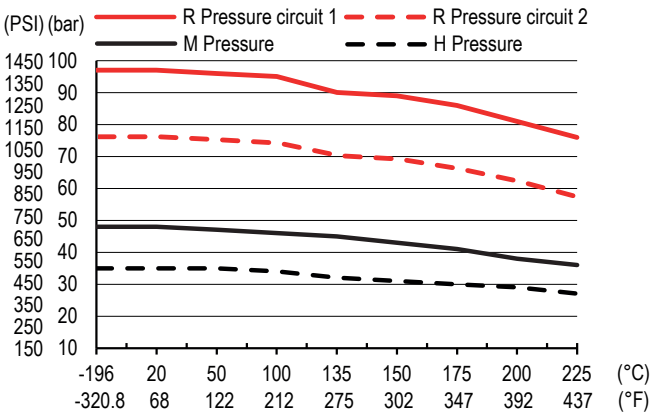


Materials	Channel plate	Brazing
SC	Stainless steel	Copper

Size	Height of plate pack	Total weight
SC H SC S SC M	4+(2×NoP) mm	1,55+(0,22×NoP) kg
	0.157+(0.079×NoP) in	3.42+(0.485×NoP) lb

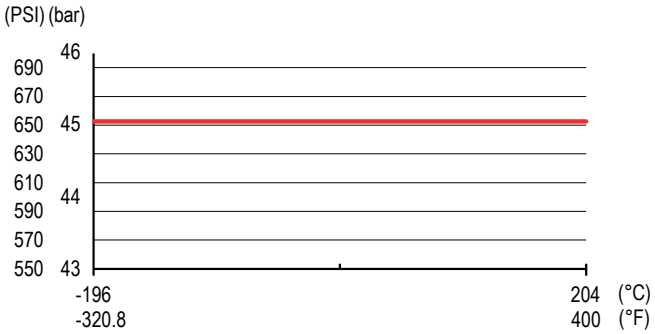
TB16DW Performance Curves

PED



UL

Pressure M



Third party approvals

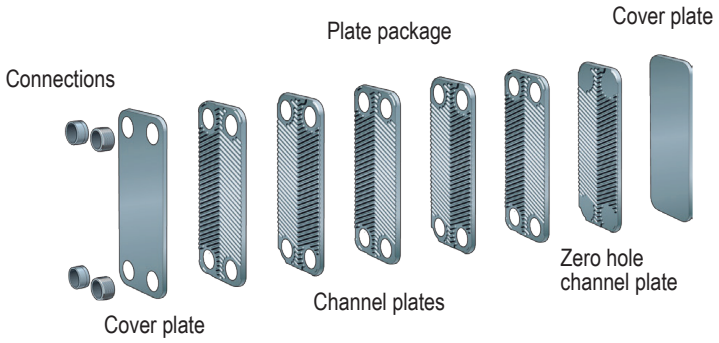
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TB50 Brazed Plate Heat Exchanger

The modular TB50 is used in many demanding applications, such as district heating, steam, oil coolers and different industrial applications. With three different plate combinations and 2½" connections, it provides an efficient solution for performances of up to 56 m^3/h (246 gpm) water flow.



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TB50 Heat Exchanger

Available connections*



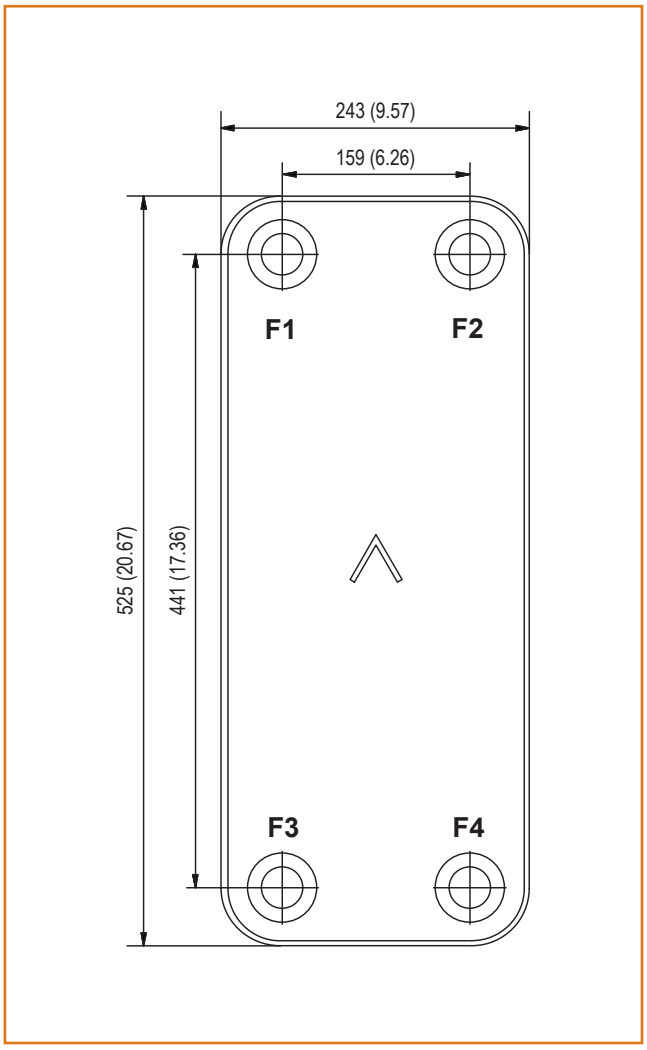
Externally threaded | Victaulic | Internally threaded | Soldering | Flanges DIN/DNC

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

Pressure classes

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).

Max number of plates (NoP)	280
Port size F1/P1	60 mm (2.362 in)
Port size F2/P2	60 mm (2.362 in)
Port size F3/P3	60 mm (2.362 in)
Port size F4/P4	60 mm (2.362 in)
Max volume flow	56 m³/h (246.4 gpm)

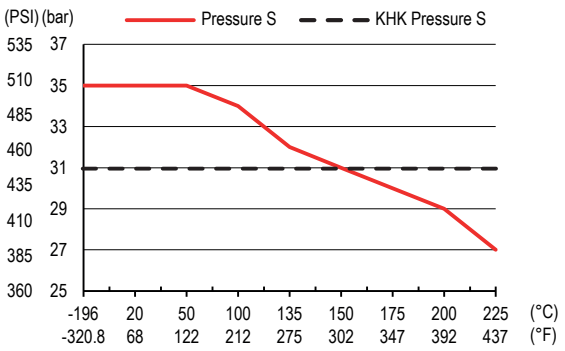


Materials	Channel plate	Brazing
SC	Stainless steel	Copper

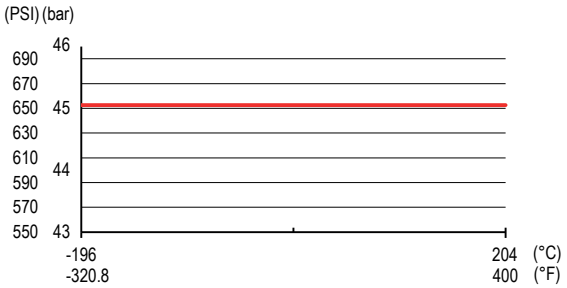
Size	Height of plate pack	Total weight
SC S	12+(2,34×NoP) mm	10,5+(0,427×NoP) kg
	0.472+(0.092×NoP) in	23.2+(0.941×NoP) lb

TB50 Performance Curves

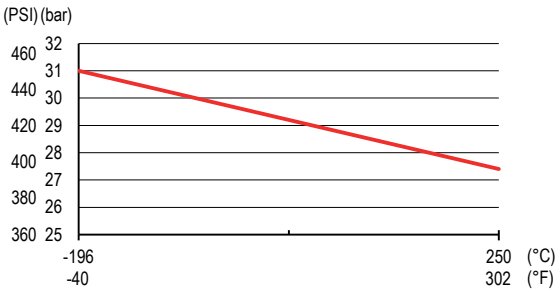
PED / KHK



UL



ASME



Third party approvals

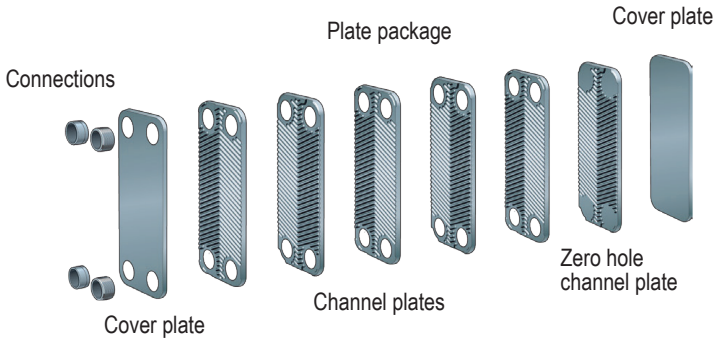
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TB5T Brazed Plate Heat Exchanger

The TB5T enables efficient heat exchange in applications with small flows and extreme demands for compactness. Easy to install and use, the product is small yet versatile, which makes it a good choice for small oil or water coolers.



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Printed in USA

TB5T Heat Exchanger

Connections*



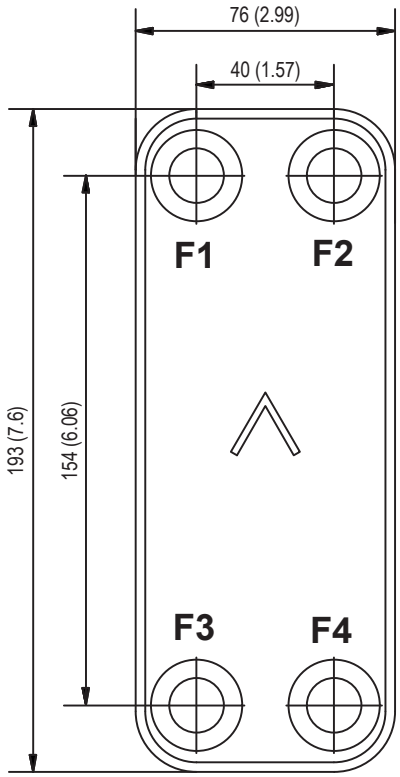
Externally threaded

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

Pressure classes

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).
M Medium, evaluated per EN 13345 (38-48 bar/550-696 PSI).
H High, evaluated per EN 13345 (42-56 bar/609-812 PSI).

Max number of plates (NoP)	60
Port size F1/P1	16 mm (0.63 in)
Port size F2/P2	16 mm (0.63 in)
Port size F3/P3	16 mm (0.63 in)
Port size F4/P4	16 mm (0.63 in)
Max volume flow	4 m³/h (17.6 gpm)



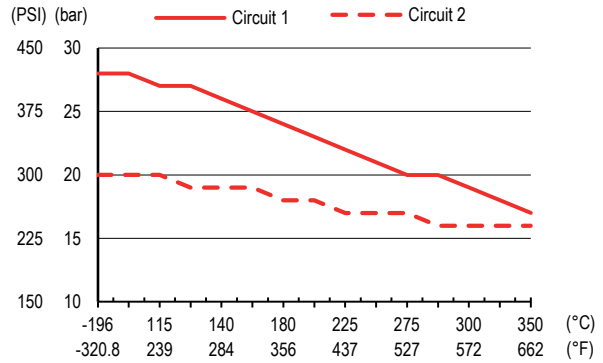
Materials	Channel plate	Brazing
SC	Stainless steel	Copper
NC	Stainless steel	Copper
SN	Stainless steel	Nickel
SPS	Stainless steel	Stainless steel
SPN	Stainless steel	Nickel

Size	Height of plate pack	Total weight
SC H	8+(2,24×NoP) mm	0,87+(0,044×NoP) kg
	0.315+(0.088×NoP) in	1.92+(0.097×NoP) lb
NC M SC M SN S SN M	4+(2,24×NoP) mm	0,50+(0,044×NoP) kg
	0.157+(0.08×NoP) in	1.09+(0.097×NoP) lb
SPN S SPS M	3+(2,3×NoP) mm	0,40+(0,045×NoP) kg
	0.118+(0.091×NoP) in	0.88+(0.099×NoP) lb

TB5T Performance Curves

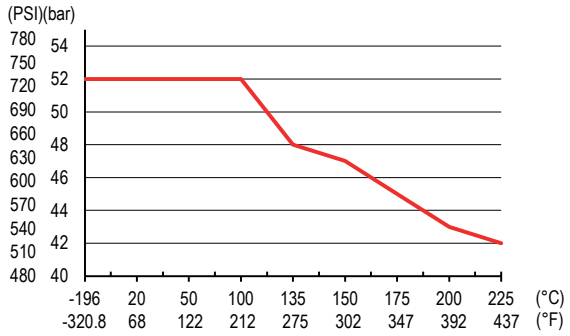
PED

SPS



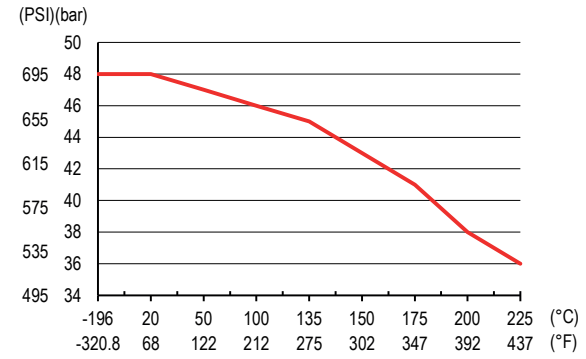
PED

Pressure H



PED

Pressure M



UL

Pressure M



Third party approvals

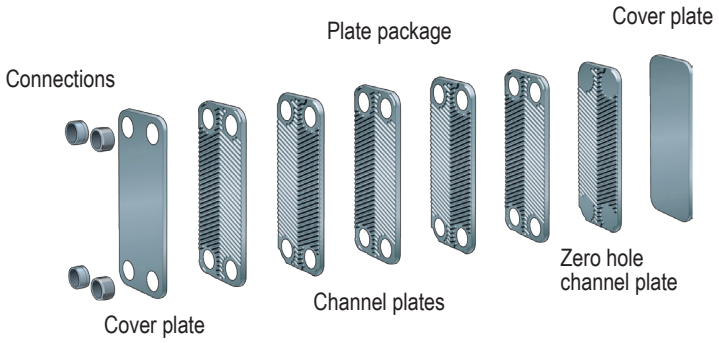
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www.TacoComfort.com

TB65 Brazed Plate Heat Exchanger

The TB65 is the perfect choice for high-capacity applications where the most robust plate heat exchanger is sought. With different plate combinations, it offers a solution for the most demanding industrial and heating applications, and is also a very effective condenser.



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Printed in USA

TB65 Heat Exchanger

Available connections*



Externally threaded | Victaulic | Internally threaded | Soldering | Flanges DIN/DNC

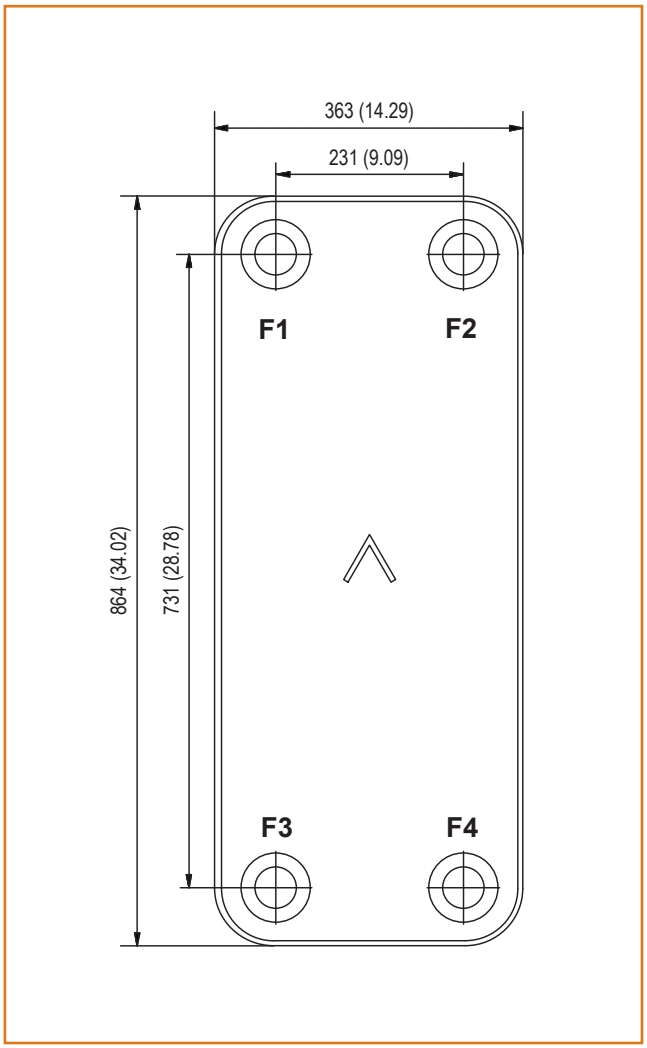
*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

Pressure classes

L Low, (8-16 bar/15-232 PSI).

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).

Max number of plates (NoP)	360
Port size F1/P1	100 mm (3.937 in)
Port size F2/P2	100 mm (3.937 in)
Port size F3/P3	100 mm (3.937 in)
Port size F4/P4	100 mm (3.937 in)
Max volume flow	156 m³/h (696.4 gpm)



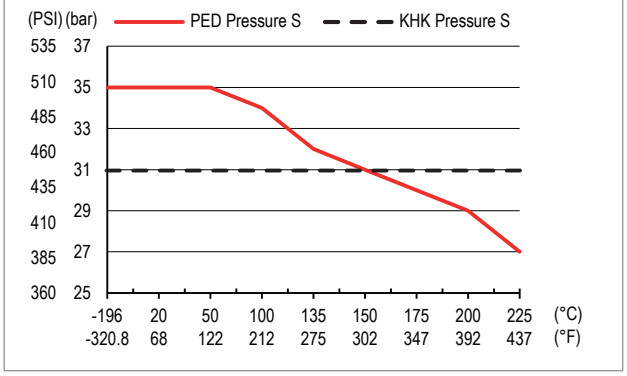
Materials	Channel plate	Brazing
SC	Stainless steel	Copper

Size	Height of plate pack	Total weight
SC S	17+(2,32×NoP) mm	27,4+(1,03×NoP) kg
	0.069+(0.091×NoP) in	60.5+(2.271×NoP) lb
SC L	7+(2.32×NoP) mm	10,8+(1,03×NoP) kg
	0.276+(0.091×NoP) in	23.7+(2.271×NoP) lb

TB65 Performance Curves

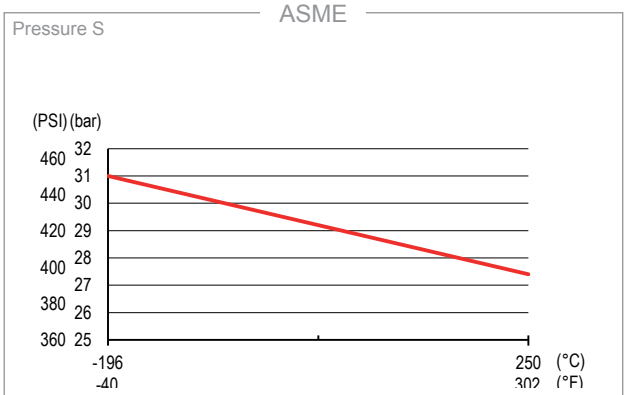
PED / KHK

Pressure S



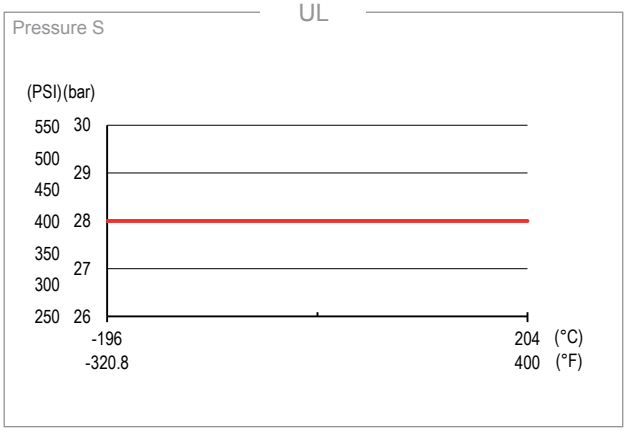
ASME

Pressure S



UL

Pressure S



Third party approvals

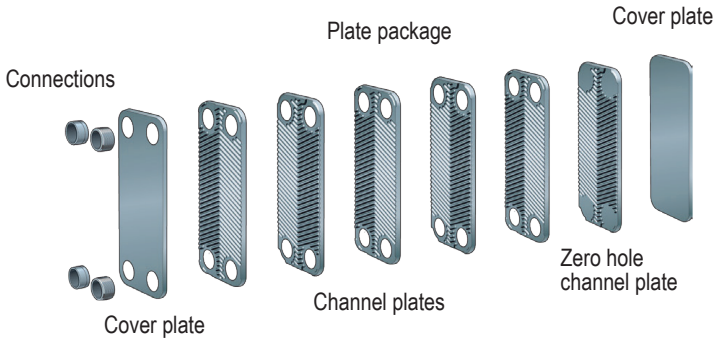
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TB80 Brazed Plate Heat Exchanger

The TB80 is our medium-size high-capacity model. It is the perfect choice for most types of low-capacity chiller applications and high-performance heat pumps. It covers a wide capacity range in district heating substations and is a proven oil cooler for compressors and hydraulics.



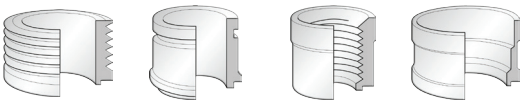
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Supersedes: New

Effective Date: 02/10/16
Printed in USA

TB80 Heat Exchanger

Available connections*



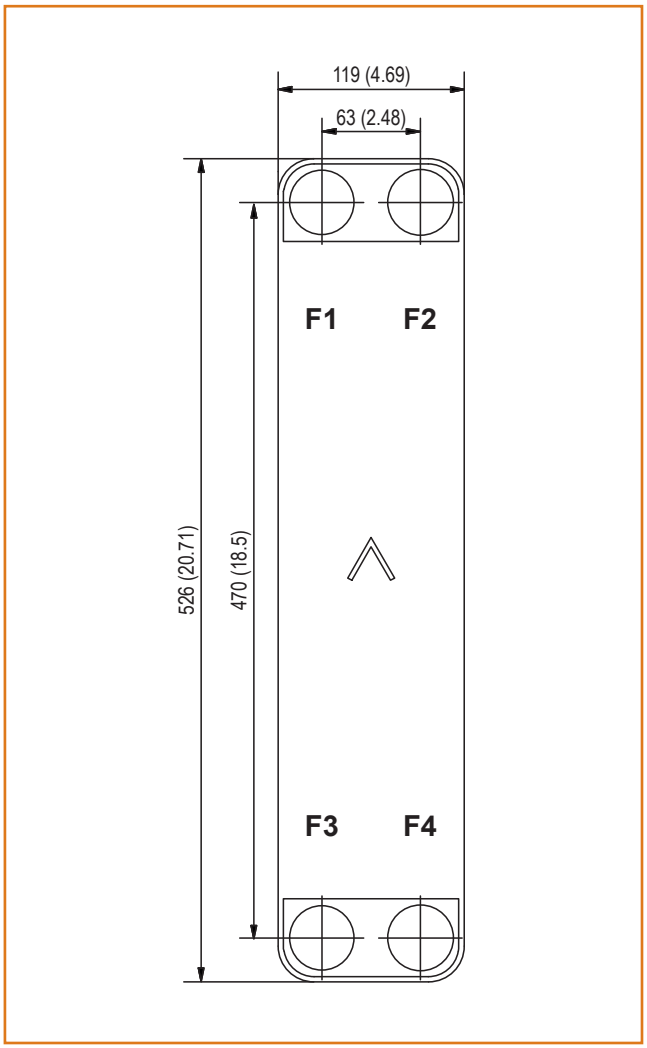
Externally threaded | Victaulic | Internally threaded | Soldering

*For specific dimensions, or information about other types of connections, please contact your Taco sales representative.

Pressure classes

S Standard, evaluated per EN 13345 (25-38 bar/ 363-550 PSI).
M Medium, evaluated per EN 13345 (38-48 bar/550-696 PSI).
F Intermediate, evaluated per EN 13345 (up to 50 bar/725 PSI).
H High, evaluated at per EN 13345 (42-56 bar/609-812 PSI).

Max number of plates (NoP)	140
Port size F1/P1	33 mm (1.3 in)
Port size F2/P2	33 mm (1.3 in)
Port size F3/P3	33 mm (1.3 in)
Port size F4/P4	33 mm (1.3 in)
Max volume flow	17 m³/h (74.8 gpm)



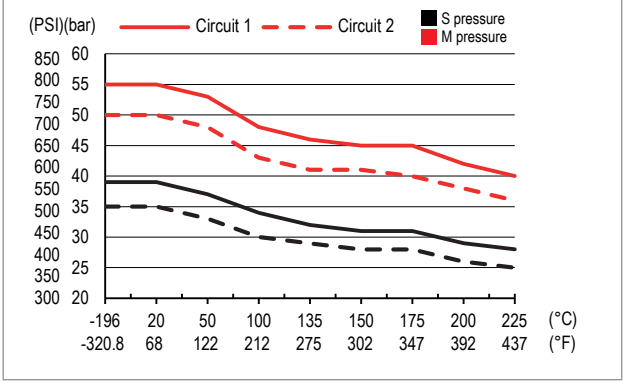
Materials	Channel plate	Brazing
SC	Stainless steel	Copper
NC	Stainless steel	Copper
NSC	Stainless steel	Copper

Size	Height of plate pack	Total weight
SC M SC S NC M NC S	4+(2,24×NoP) mm	2,09+(0,164×NoP) kg
	0.157+(0.088×NoP) in	4.61+(0.362×NoP) lb
NC F SC F	12+(2,24×NoP) mm	2,62+(0,164×NoP) kg
	0.472+(0.088×NoP) in	5.78+(0.362×NoP) lb
SC H NSC H	12+(2,24×NoP) mm	5,57+(0,164×NoP) kg
	0.472+(0.088×NoP) in	12.29+(0.362×NoP) lb

TB80 Performance Curves

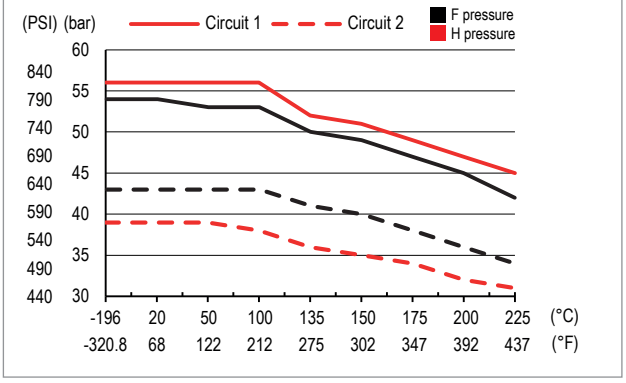
PED

Pressure S, M

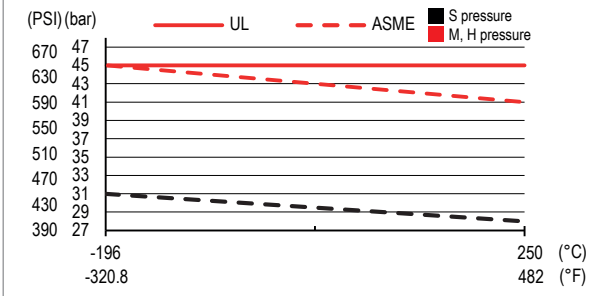


PED

Pressure F, H



UL / ASME



Third party approvals

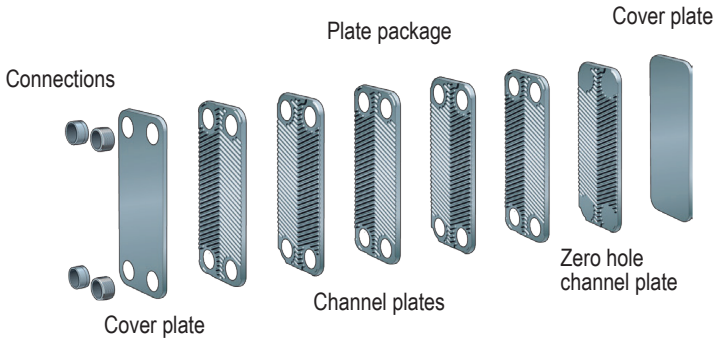
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