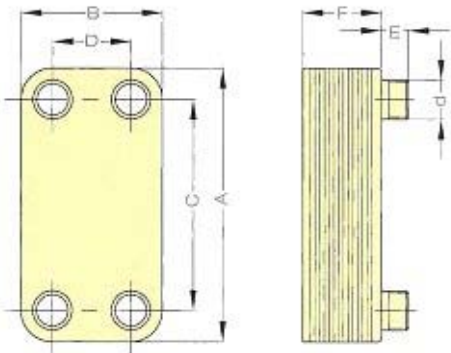


# SEC Heat Exchangers

SEC Brazed Plate Engineering Data

[www.brazedplate.com](http://www.brazedplate.com)

Braze Plate Models	Dimensions (inches)					Plate Area (Sq. ft)	Channel Volume (USGAL)	Maximum Flow (GPM)	Maximum # of Plates (NP)	Weight (empty) (Lbs)
	A	B	C	D	F					
M14	7.6	3.1	6.1	1.6	.39+.09np	0.13		25	60	
M312	12.1	3.1	10.9	1.6	.39+.09np	0.23	0.012	20	60	1.7+0.1np
M25	20.0	5.0	17.5	2.5	.49+.09np	0.62	0.020	75	120	5.0+.44np
M31	12.0	5.0	9.8	2.8	.36+.09np	0.35	0.012	55	120	3.1+0.3np
M110X	20.9	9.8	18.0	6.9	.51+.09np	1.22	0.043	120	150	11.2+.9np
M110H	18.2	10.0	14.9	6.7	.53+.11np	1.16		220	200	
M110Z	20.6	9.5	16.9	5.8	.53+.11np	1.11		250	200	



Technical Parameters Diagram  
(for use with the above chart)



Standard Connection Types:  
Solder (sweat) - Threaded (NPT) - Flanged

**Material:**

- Plates and Connections: AISI 316
- Brazing: Copper, or Nickel

**Design Parameters:**

- Maximum Working Pressure: 435 Psi
- Maximum Working Temperature: copper brazed 437°F, nickel brazed: 752°F
- Minimum Working Temperature: copper brazed -119°F

## Standard Connections in Stock

Heat Exchanger Type	Solder (sweat)		Threaded (NPT)		Flanges	
	d* (in)	E (in)	d (in)	E (in)	d (in)	E (in)
M14			3/4" NPT (male)	7/8"		
M312	3/4"	3/4"	3/4" NPT (male)	7/8"		
M25	1 - 3/8"	13/16"	1", 1-1/4" NPT	.80"		
M31	1"	1 - 3/8"	1" NPT (male)	1 - 1/8"		
M110	2"	1 1/4"	1 1/2", 2-1/2", or 3" NPT	1 1/4"		

Flanged Connections are available on M110 models (special order)



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HEAT EXCHANGERS