

STAINLESS STEEL HEAT EXCHANGER

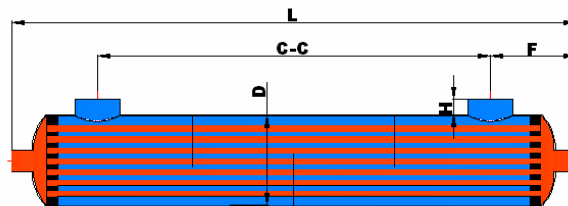


TU SERIES

TU series stainless steel heat exchangers are available in seven sizes with capacities from 80 to 1200 kBtu/h. These heat exchangers are designed to perform at high flow rate with low pressure drop in process side.

- Made of full stainless steel with SS316L tubing and SS316L shell to ensure strength and durability
- Optimized tubing diameter to allow higher velocity and heat transfer efficiency and better self-cleaning
- Built-in baffles to assure maximum heat transfer in shell side
- Annealed tubing to reduce stress corrosion like SCC

Model	Pool Load	SQ.FT2	Dimension in mm/inch					Connection FNPT	
			L	D	C-C	F	H	Tubeside	Shellside
	KBTU		mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	in	in
TU3-06	40-80	3.0	401/15.8	89/3.5	195/7.7	103/4.1	13/0.5	3/4	1.5
TU3-12	80-160	3.7	477/18.8	89/3.5	271/10.7	103/4.1	13/0.5	3/4	1.5
TU4-2	160-240	6.4	502/19.8	108/4.3	285/11.2	109/4.3	11/0.4	1	2
TU4-3	240-350	8.8	654/25.7	108/4.3	437/17.2	109/4.3	11/0.4	1	2
TU4-4	350-450	12.0	857/33.7	108/4.3	640/25.2	109/4.3	11/0.4	1.5	2
TU4-5	450-650	15.2	1061/41.8	108/4.3	844/33.2	109/4.3	11/0.4	1.5	2
TU5-55	800-1200	20.8	921/38.3	133/5.2	687/27.0	117/4.6	13/0.5	2	2



Rating	Design Pressure	Design Temperature	Material
Shell Side	150 psi	230 F	SS316L
Tube Side	150 psi	250 F	SS316L

APPLICATIONS

- Pools, spas and hot tubs
- Oil coolers
- Boiler blow-down sample coolers
- Chemical processes
- Waste water heat recovery

Quick Sizing Reference

Based on pool temperature at 84F and Boiler output at 180F

Pool Size	Heat Loss Rate	Boiler Capacity	Heat Exchanger
Gallon	F/h	kBtu/h	Part No.
6000	0.8	40	TU3-06
	1.2	60	
	1.6	80	
12000	0.8	80	TU3-12
	1.2	120	
	1.6	160	
20000	1.0	160	TU4-2
	1.2	200	
	1.5	250	
26000	1.1	250	TU4-3
	1.4	300	
	1.6	350	
36000	1.1	350	TU4-4
	1.3	400	
	1.5	450	
46000	0.9	350	TU4-5
	1.3	500	
	1.9	750	
88000	1.1	800	TU5-55
	1.4	1000	
	1.6	1200	

BTU-Flowrate-Pressure drop Table

Boiler Water Temp. 180-150~155F; Water Temp. 80-84-88F

Part No.	KBtu	USGPM		Pressure drop/psi	
		Shell	Tube	Shell	Tube
TU3-06	40	26.6	3.2	0.5	0.1
	60	40.0	4.8	1.6	0.1
	80	53.3	7.3	2.0	0.2
TU3-12	80	40.0	6.4	1.1	0.2
	120	59.9	9.6	3.0	0.4
	160	80.0	14.5	4.4	1.0
TU4-2	160	64.0	11.8	1.2	0.2
	200	79.9	14.8	2.9	0.3
	250	99.9	20.0	3.0	0.6
TU4-3	250	80.0	15.0	1.9	0.4
	300	99.9	18.8	3.8	0.6
	350	117.0	22.0	4.0	0.8
TU4-4	350	87.0	23.3	2.7	0.5
	400	99.9	26.7	3.6	0.6
	450	112.0	30.0	4.4	0.7
TU4-5	350	69.9	23.3	1.8	0.5
	500	99.9	33.3	3.7	1.0
	750	150.0	50.0	8.1	2.1
TU5-55	800	114.2	53.3	3.6	0.8
	1000	142.8	66.7	5.6	1.3
	1200	171.3	80.0	7.9	1.8

