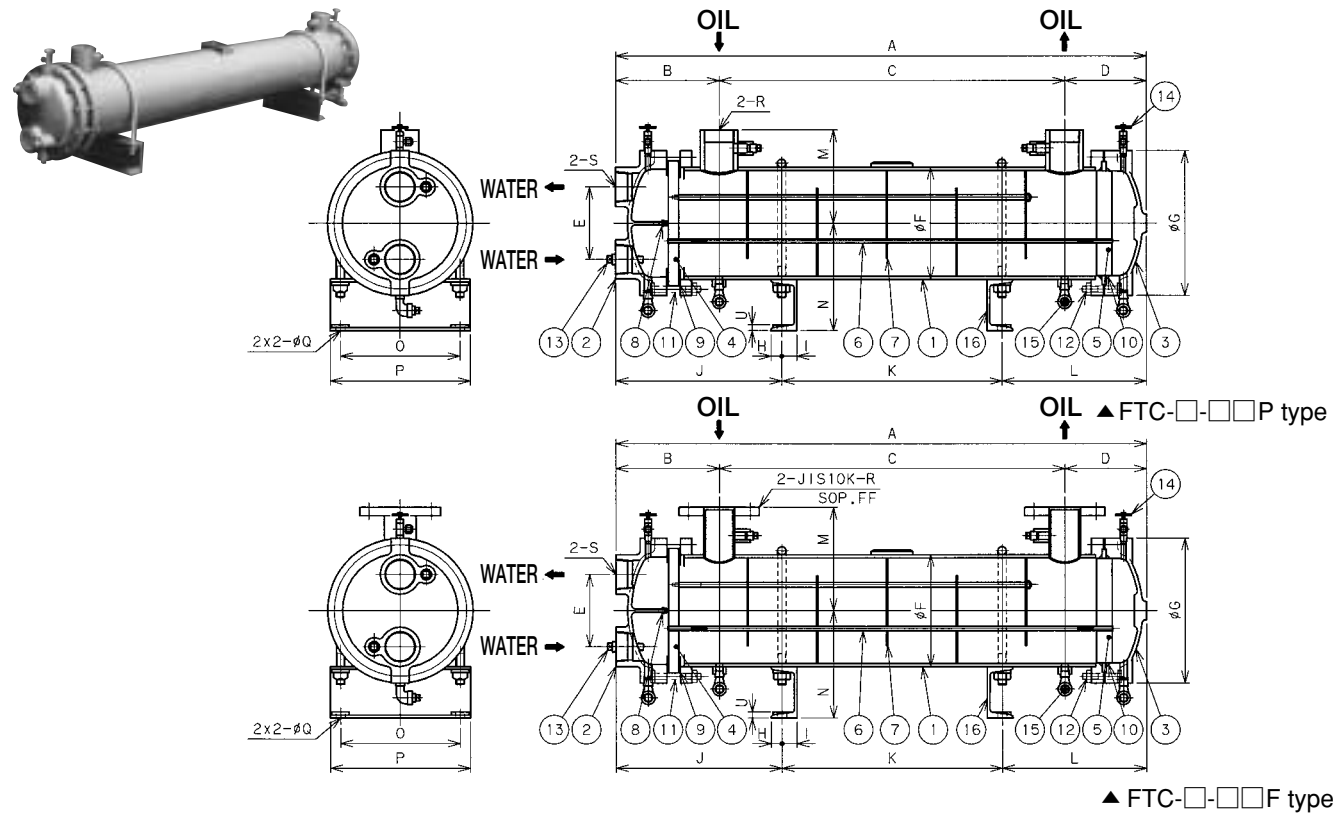


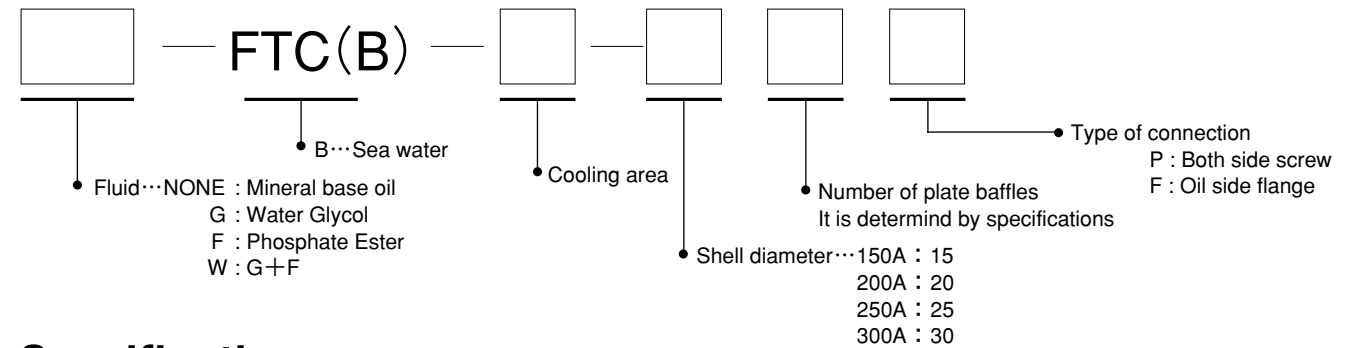
Construction & Dimensions



Code	Model																			Cooling surface m ²	Weight kg	
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	U		
FTC-6-15 **	1229		915								765										6	85
FTC-7-15 **	1313		999								849										7	90
FTC-8-15 **	1473	174	1159	140	110	φ165.2	φ223	16	24	249	1009	215	140	158	170	210	φ13.5	Rc11/2 (40A)	Rc11/4	10	8	96
FTC-9-15 **	1633		1319								1169										9	105
FTC-10-15 **	1803		1489								1339										10	110
FTC-11-15 **	1983		1669								1519										11	118
FTC-7-20 **	873		517								275										7	118
FTC-9-20 **	1023		667								425										9	129
FTC-10-20 **	1173		817								575										10	140
FTC-12-20 **	1343		987								745										12	152
FTC-14-20 **	1503	199	1147	157	140	φ216.3	φ280	21	29	320	905	278	180	208	230	270	φ18	Rc2 (50A)	Rc2	12	14	164
FTC-16-20 **	1663		1307								1065										16	175
FTC-18-20 **	1833		1477								1235										18	188
FTC-20-20 **	2013		1657								1415										20	200
FTC-22-20 **	2183		1827								1585										22	213
FTC-18-25 **	1264		900								650										18	223
FTC-21-25 **	1434		1070								820										21	242
FTC-24-25 **	1594		1230								980										24	260
FTC-27-25 **	1764		1400								1150										27	279
FTC-30-25 **	1934	204	1570	160	180	φ267.4	φ355	21	29	329	1320	285	200	234	280	320	φ22	Rc2 (50A)	Rc21/2	12	30	297
FTC-34-25 **	2154		1790								1540										34	322
FTC-37-25 **	2324		1960								1710										37	340
FTC-41-25 **	2544		2180								1930										41	366
FTC-44-25 **	2714		2350								2100										44	384
FTC-31-30 **	1378		964								694										31	340
FTC-35-30 **	1538		1124								854										35	380
FTC-40-30 **	1698		1284								1014										40	390
FTC-44-30 **	1868		1454								1184										44	426
FTC-49-30 **	2048	229	1634	185	200	φ318.5	φ410	28	37	364	1364	320	230	284	330	390	φ22	Rc21/2 (65A)	Rc3	12	49	450
FTC-54-30 **	2218		1804								1534										54	470
FTC-61-30 **	2454		2040								1770										61	505
FTC-66-30 **	2634		2220								1950										66	535
FTC-71-30 **	2814		2400								2130										71	565

() In case oil side is flange rating

Model Number



Specifications

Type	Floating tube plate Two pass Shell & Tube
Max.operating pressure	Shell side 1.0MPa / Tube side 1.0MPa
Fluid	Shell side : Mineral based oil, Water Glycol and Phosphate Ester etc. Tube side : Fresh water, Industrial water and Sea water
Tube material	12.7mm dia. Low fin tube (C1220T)
Cooling area	6~71 m ²
Features	Tube : There are variety of tube materials. Other than sea water maybe acceptable. Leg : U bolt type legs allow free installation Corrosion Proof : Inside of water chamber covers are coated with a tar-epoxy paint to prevent corrosion

Component Parts

No.	Parts name	No.	Parts name	No.	Parts name
1	Shell	7	Baffle plate	13	Zinc plug
2	Chamber cover A	8	Packing	14	Vent
3	Chamber cover B	9	Packing	15	Drain plug
4	Tube plate A	10	O ring	16	Leg
5	Tube plate B	11	Bolt/Nut		
6	Fin tube	12	Bolt/Nut		

Spare Parts

Remarks : Please note part numbers and quantity, when placing orders. Material of part depends upon the type of fluid.

Model	No.	Parts name	Q'ty	Size	Material
FTC-6-15 **	8	Packing	1	12×12×162	NBR
	9	Packing	2	t3×φ188/φ162	None asbestos
	10	O ring	2	G-150	NBR,(FKM*)
FTC-11-15 **	13	Zinc plug	2	R1/2	Zn, FcMB
FTC-7-20 **	8	Packing	1	12×12×208	NBR
	9	Packing	2	t3×φ241/φ208	None asbestos
	10	O ring	2	G-200	NBR,(FKM*)
FTC-22-20 **	13	Zinc plug	2	R1/2	Zn, FcMB
FTC-18-25 **	8	Packing	1	12×12×258	NBR
	9	Packing	2	t3×φ302/φ258	None asbestos
	10	O ring	2	G-250	NBR,(FKM*)
FTC-44-25 **	13	Zinc plug	2	R1/2	Zn, FcMB
FTC-31-30 **	8	Packing	1	12×12×308	NBR
	9	Packing	2	t3×φ357/φ308	None asbestos
	10	O ring	2	G-300	NBR,(FKM*)
FTC-71-30 **	13	Zinc plug	2	R1	Zn, FcMB

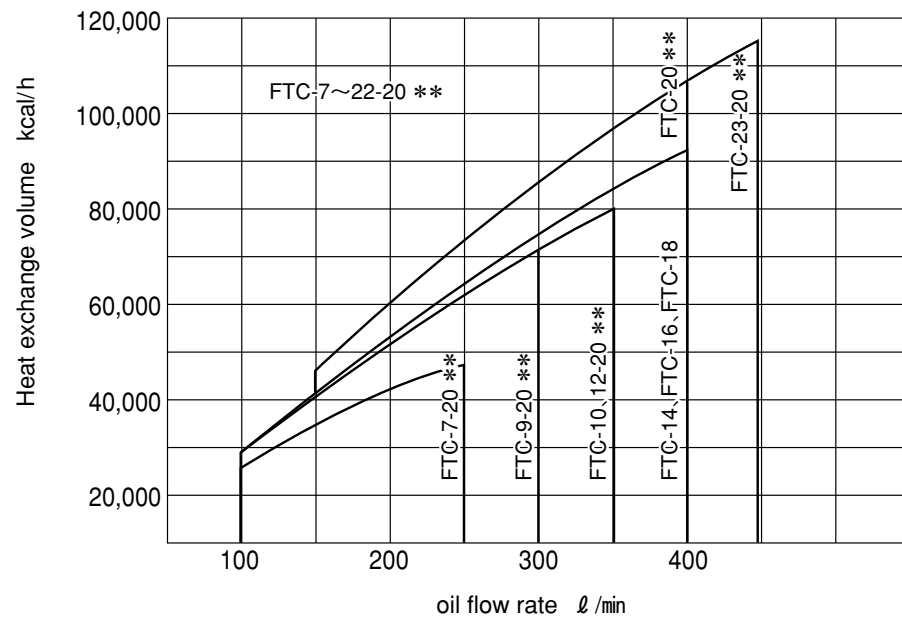
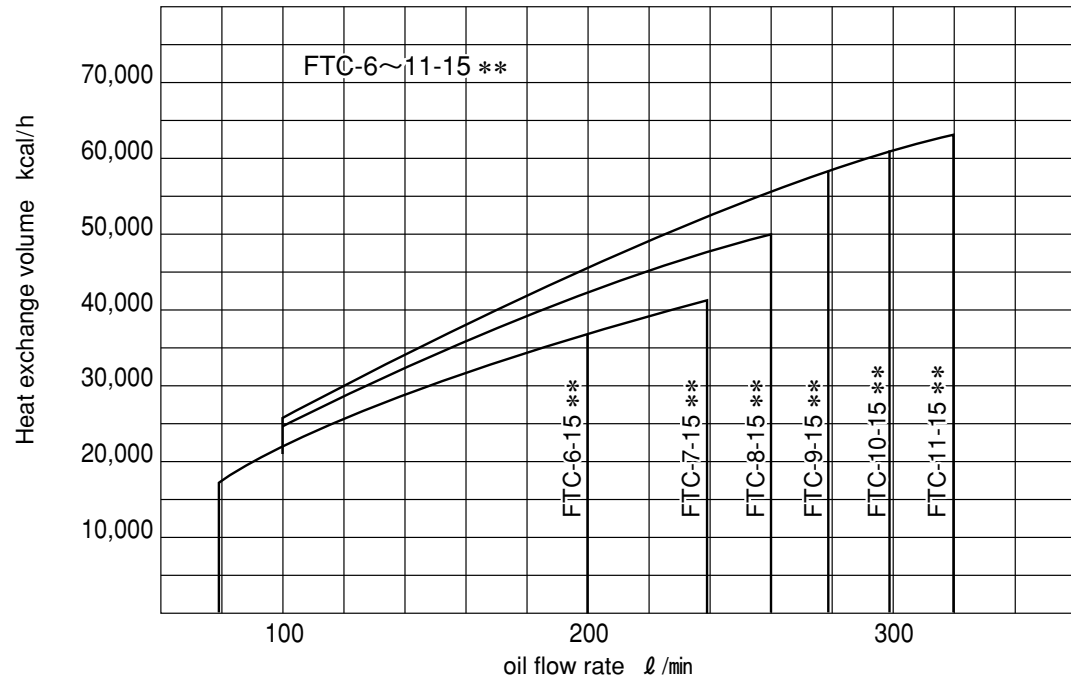
* FKM Packings are used for fluid "F" and "W" type.

► Cooler selection graph

Condition

Fluid : ISO-VG46 or equivalent
 Oil inlet temp. : 55°C
 Water inlet temp. : 30°C
 Water flow rate : 1/2 of oil flow (reference table to right)

Model	Water flow	Minimum	Maximum
FTC-6~11-15**	50 l/min	50 l/min	200 l/min
FTC-7~22-20**	80 l/min	80 l/min	360 l/min
FTC-18~44-25**	120 l/min	120 l/min	600 l/min
FTC-31~71-30**	160 l/min	160 l/min	900 l/min



● On the graph, oil side pressure drops at $\begin{matrix} a \\ b \end{matrix}$ are, a : 0.03 MPa
 b : 0.1 MPa

● Water flow must be within the limit table above. In cases where 1/2 of oil flow is lower than the minimum limit, use the water flow rate in the table.

● If your specifications differ from graph above, contact Taisei Kogyo.

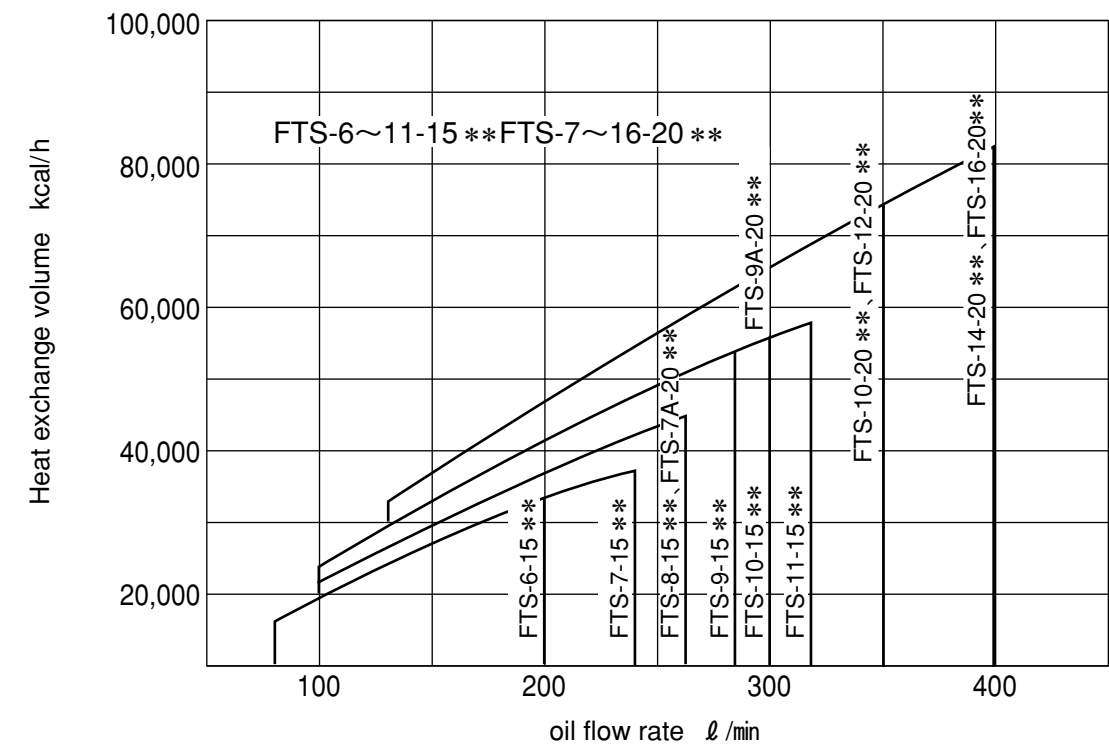
● FTC is a two-pass cooler. If water supply is limited, consider four-pass coolers, FTS.

► Cooler selection graph

Condition

Fluid : ISO-VG46 or equivalent
 Oil inlet temp. : 55°C
 Water inlet temp. : 30°C
 Water flow rate : 1/3 of oil flow (reference table to right)

Model	Water flow	Minimum	Maximum
FTS-6~11-15**	30 l/min	30 l/min	100 l/min
FTS-7~22-20**	60 l/min	60 l/min	180 l/min
FTS-18~44-25**	80 l/min	80 l/min	300 l/min
FTS-31~71-30**	100 l/min	100 l/min	450 l/min



● On the graph, oil side pressure drops at $\begin{matrix} a \\ b \end{matrix}$ are, a : 0.03 MPa
 b : 0.1 MPa

● Water flow must be within the limit table above. In cases where 1/3 of oil flow is lower than the minimum limit, use the water flow rate in the table.

● If your specifications differ from graph above, contact Taisei Kogyo.