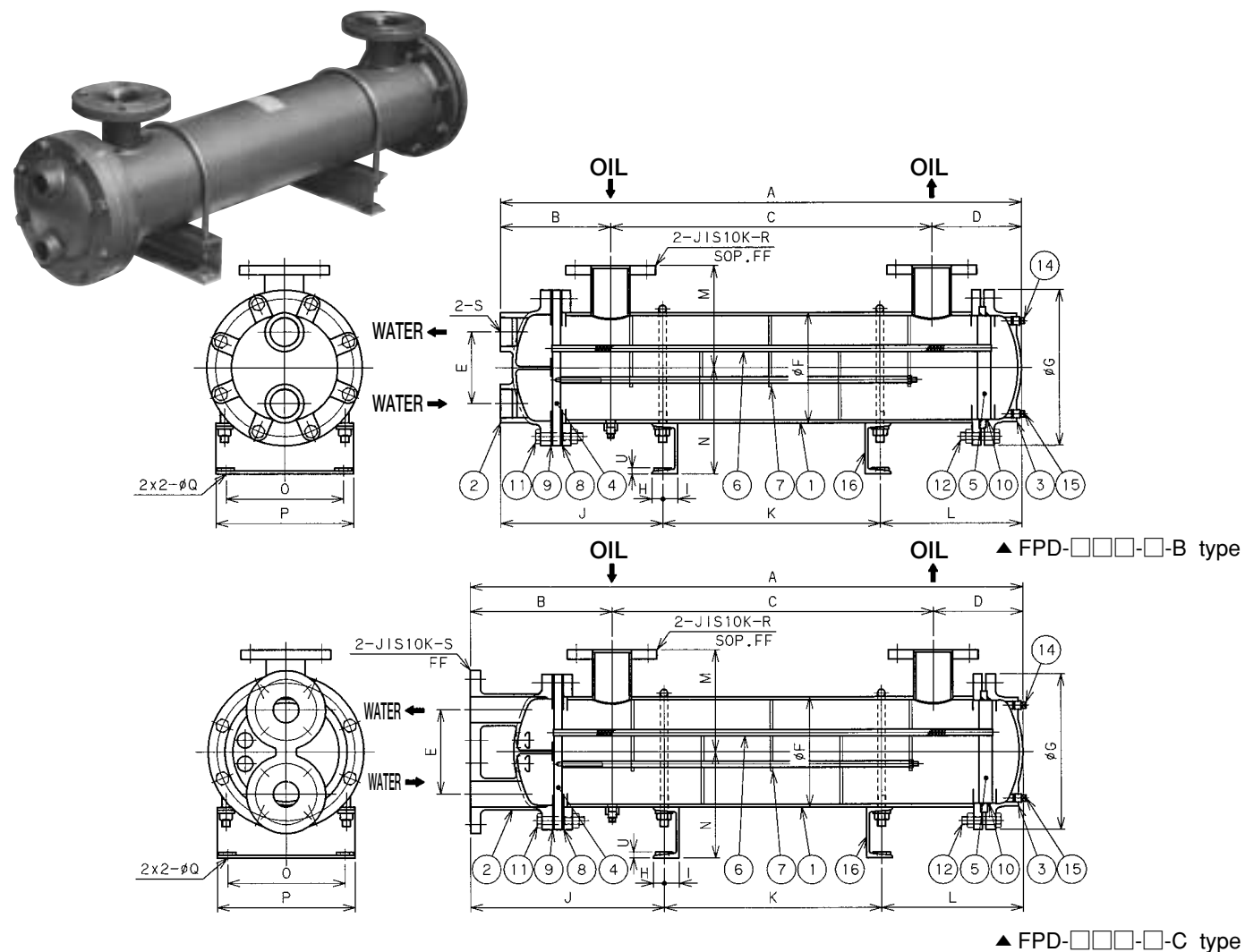


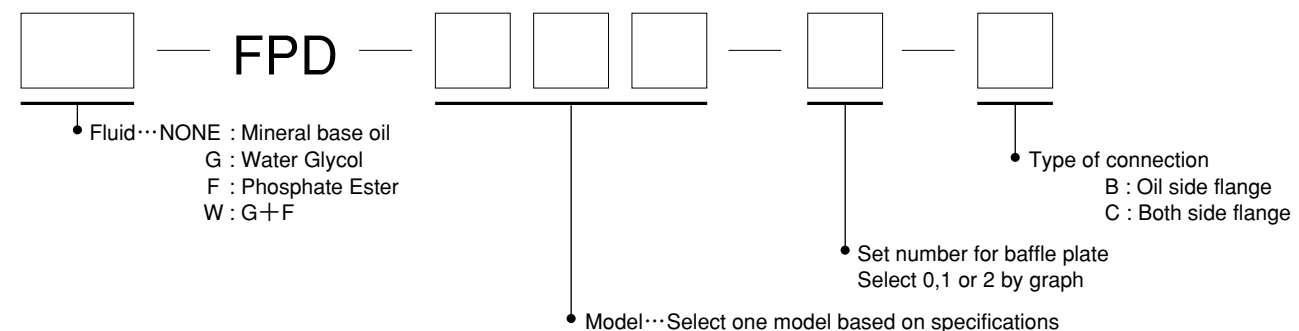
## Construction & Dimensions



Code Model	Dimensions																	Cooling surface m <sup>2</sup>	Weight kg			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q			R	S	U
FPD-518	867 (917)		477								275										9	111
FPD-522	1017 (1067)		627								425										11	121
FPD-526	1167 (1217)		777								575										13	132
FPD-531	1337 (1387)		947								745										15.5	144
FPD-535	1497 (1547)	215 (265)	1107	175	140 (200)	φ216.3	φ305	21	29	316 (366)	905	276	200	208	230	270	φ18	65A	Rc2 (50A)	12	17.5	156
FPD-540	1657 (1707)		1267								1065										20	173
FPD-544	1827 (1877)		1437								1235										22	185
FPD-549	2007 (2057)		1617								1415										24.5	198
FPD-554	2177 (2227)		1787								1585										27	209
FPD-634	1091		596								416										17	194
FPD-644	1327		832								652										22	221
FPD-652	1497	302	1002	193	190	φ267.4	φ355	21	29	392	822	283	230	234	280	320	φ22	80A	65A	12	26	241
FPD-658	1657		1162								982										29	260
FPD-666	1827		1332								1152										33	280

( ) In case water side is flange rating.  
Only water side flange is available for FPD-6□□□

## Model Number



## Specifications

Type	Shell & tube, Floating tube plate	
Max.operating pressure	Shell Side : 1.0MPa / Tube side : 1.0 MPa	
Max.temp.	80°C	
Fluid	Shell Side : Mineral based oil. Water Glycol and Phosphate Ester etc. Tube Side : Fresh water (not available sea water)	
Tube material	12.7mm dia. Low fin tube	
Cooling area	9m <sup>2</sup> ~33m <sup>2</sup>	
Features	Leg	U bolt type legs allow free installation
	Corrosion Proof	Inside of water chamber cover is coated with a tar-epoxy paint to prevent corrosion

## Component Parts

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

## 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
FPD-5□□□	8	Packing	1	t3 × φ 305 / φ 208	None asbestos
	9	Packing(with partition)	1	t3 × φ 305 / φ 208	None asbestos
	10	O ring	2	G-200	NBR, (FKM*)
FPD-6□□□	8	Packing	1	t3 × φ 355 / φ 258	None asbestos
	9	Packing(with partition)	1	t3 × φ 355 / φ 258	None asbestos
	10	O ring	2	G-250	NBR, (FKM*)

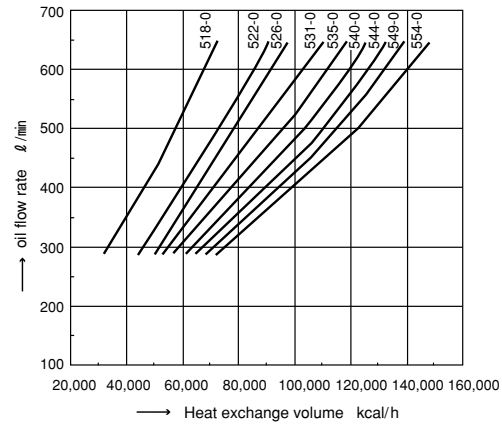
\* FKM Packings are used for fluid "F" and "W" type.

## ► Cooler selection graph

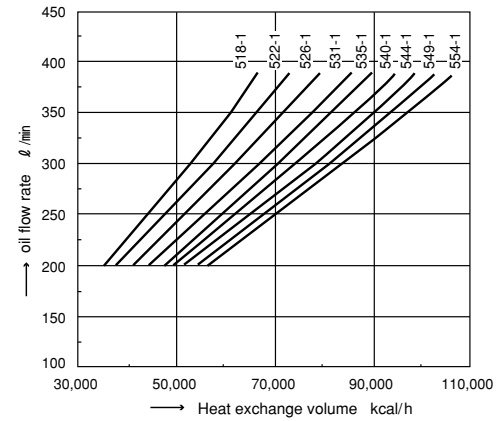
Condition

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)  
 Oil side pressure drop : 0.02~0.1MPa  
 Water side pressure drop : 0.1~0.06MPa

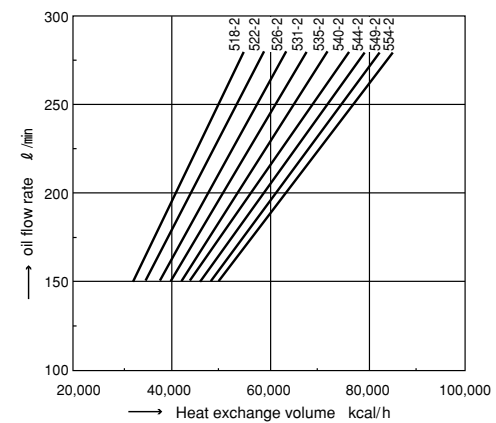
### FPD-518~540-0 type



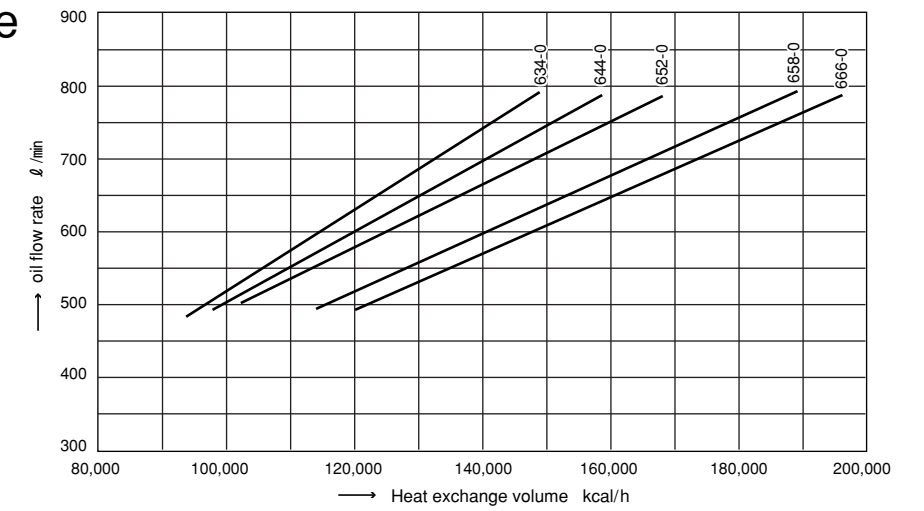
### FPD-518~540-1 type



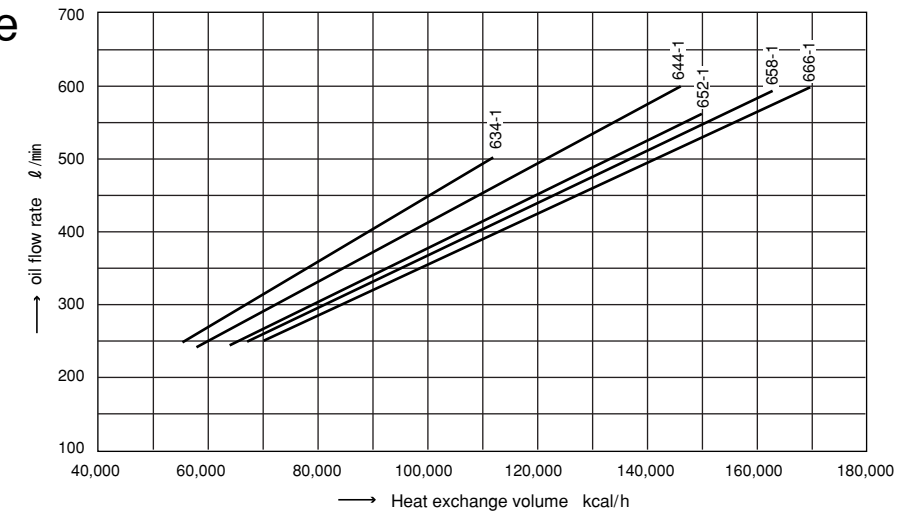
### FPD-518~540-2 type



### FPD-634~666-0 type



### FPD-634~666-1 type



### FPD-634~666-2 type

