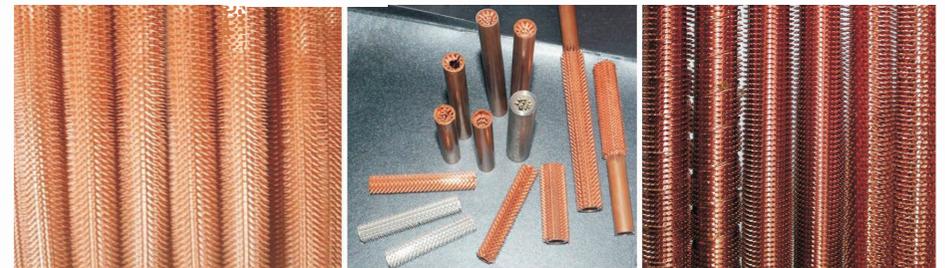


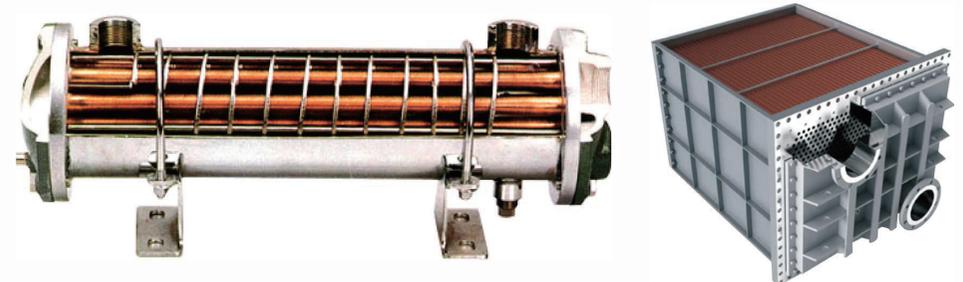
ORCAER[®]

Shell & Tube Coolers

Super-high Performance 3D Fin Tube



High Efficiency Heat-Exchanger



ORCAER[®]

Guangzhou Coolplus Machinery Co.,Ltd
Add:Aoyuankangwei Plaza,xintang town,Guangzhou
Tel:18928789746

<https://www.fluid-power.cn/>
E-mail:orcaer@foxmail.com

Guangzhou Coolplus Machinery Co.,Ltd



Company Profile 公司简介

Guangzhou Coolplus Machinery Co.,Ltd is an Innovation-oriented enterprise which is professional committed to the development, design and manufacture and sales for the integration of the Super-high Performance 3D Fin Tube and High Efficiency Heat-exchanger. We have advanced processing equipment and the first-class technical talented talent troops. We have established long-term cooperation relations with South China University of Technology and Xi 'an Jiaotong University. We make full use of the advantage of the theory of the university and of the manufacturing technology of the enterprise to realize the powerful combination of school and enterprise, and to maintain the product technology and quality in the domestic leading level

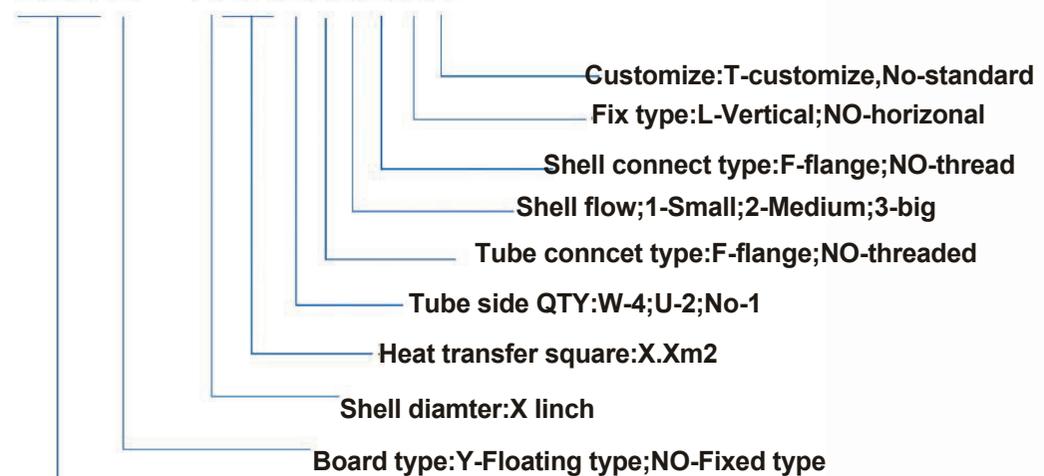
Our products are: Super-high Performance 3D Fin Tube (3 D Internal and External Ribs Finned Tube, 3 D Petals Type Outside Fin Tube, 3 D A Type Needle Rib Outside Fin Tube) and High Efficiency Heat-exchanger (YSR spiral 3D finned tube spiral baffle plate heat-exchanger, YRC finned tube heat-exchanger, YFC low fin tube heat-exchanger) and its unit heat exchanger

Our company's products development direction accord with national policy guidance. Our products, which are quality safe, reliable, high efficiency and energy saving, and the preferred energy-saving products for the user. are sold well all over the country. Super-high Performance 3D Fin Tube mainly service for the domestic and foreign famous large heat exchanger manufacturer to promote their products to a new level, and greatly reduced the cost and improve the competence of the enterprise. High Efficiency Heat-Exchanger and its unit heat exchanger are widely used in plastic machinery, construction machinery, air compressor, hydraulic machinery, power generation equipment and gas separation equipment as well as petroleum, chemical industry, metallurgy, electric power, textile, the ships, the mineral, etc.

"Science and technology innovation, sincere service" is our core concept. Users are welcome to contact with us, we will cooperate with you for energy saving, consumption reduction.

HOW TO ORDER

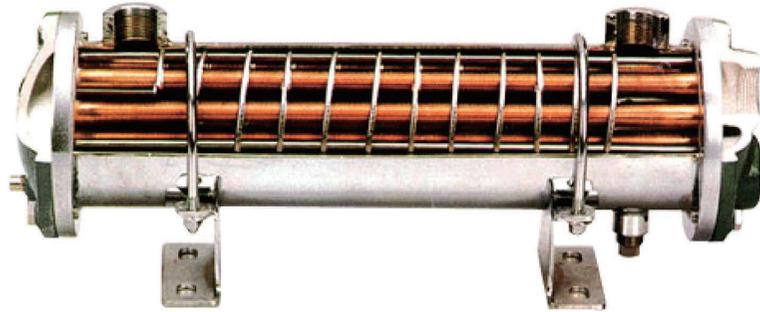
□□□ □ — XXX □□X□ □□



Code:

YSR-3D Fin tube spiral type;YRC-3D Fin bowed baffle type
YFC-Threaded tube type;YBC-NO Fin tube type

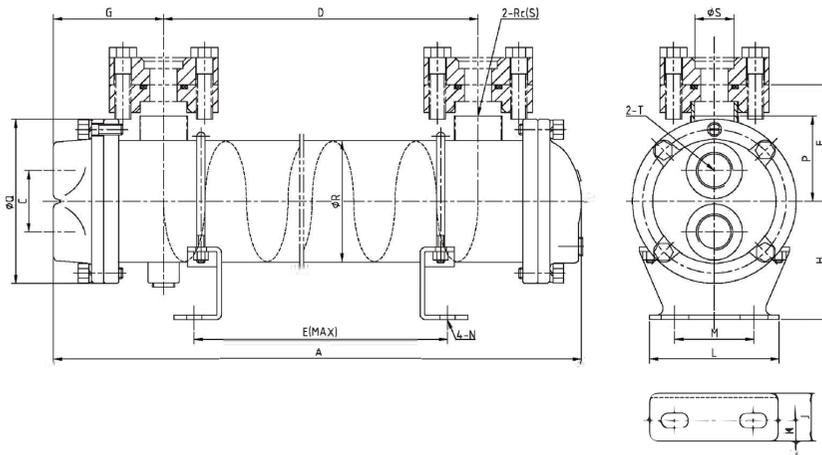
YSR SERIES-3D FIN TUBE SPIRAL TYPE



YSR series Main characteristic

- 1.Screw-guide baffle leads the oil flow in a spiral way,in succession and well-distributed.It overcomes the "dead corner" during heat exchanging of the traditional deflector,hence the efficiency is high, pressure drop is low.
- 2.The cooling tube is made of copper to roll fin outside.The product have larger heat surface but small size and weight.
- 3.There are 2 or 4 passes in the tube side,large flow of oil(large lead of baffle) and small flow (small lead of baffle) in the shell side.Various type of product can meet customer's different requirement.
- 4.Manufacture according to technology and production management of Japan KAMUI.

一、YSR The construction scheme



二、YSR series Specification and Dimension

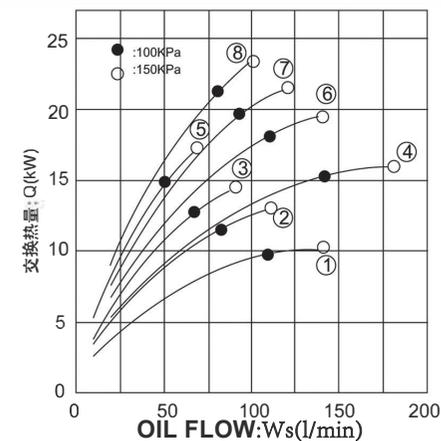
单位:mm

TYPE	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YSR-303	309		152	107													
304	381		224	179													
305	453		296	251													
307	597	45	440	395	85	81	87	35	15	95	58	11	62	120	89	Rc3/4 φ28.5 (DN20)	Rc3/4
309	741		584	539								20					
311	885		728	683													
313	1030		872	827													
315	1172		1015	970													
YSR-408	469		284	240													
411	613		428	384													
415	757		572	528													
418	901	60	716	672	110	95	125	50	20	160	110	18	87	150	114	Rc11/4 φ43 (DN32)	Rc3/4
421	1045		860	816								22					
424	1188		1003	959													
428	1261		1076	1032													
YSR-509	494		262	198													
518	638		406	342													
526	854		622	558													
534	1070	70	838	774	130	121	160	50	20	180	120	18	105	180	139	Rc11/2 φ52 (DN40)	Rc1
542	1288		1054	990								25					
549	1051		1269	1205													
554	1612		1380	1316													

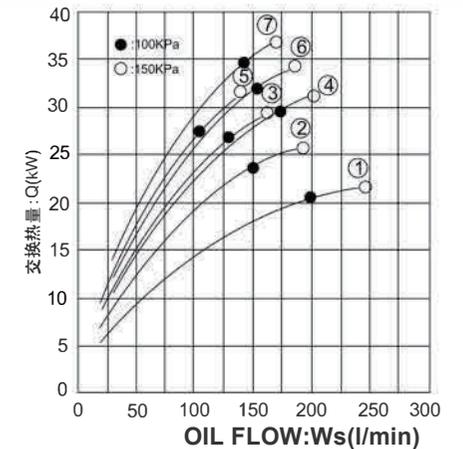
友情提示：以上尺寸仅供参考，有更新的可能性，若型号及尺寸修改，请以实际确认图纸为准。

三、YSR series Performance curve

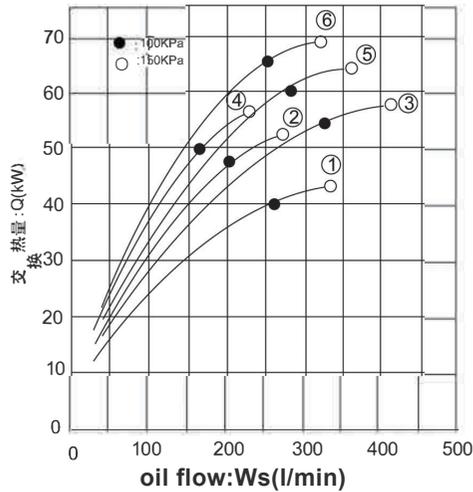
YSR-3U WATER FLOW:40L/MIN



YSR-4U WATER FLOW:60L/MIN



YSR-5U water flow 100L/min



Reference

YSR-3U	YSR-4U	YSR-5U
① 303 U1	① 408 U1	① 518 U1
② 304 U1	② 411 U1	② 526 U1
③ 305 U1	③ 415 U1	③ 526 U2
④ 305 U2	④ 415 U2	④ 534 U1
⑤ 307 U1	⑤ 418 U1	⑤ 534 U2
⑥ 307 U2	⑥ 418 U2	⑥ 542 U2
⑦ 309 U2	⑦ 421 U2	
⑧ 311 U2		

YRC SERIES(3D FIN TUBE BAFFLE TYPE)

Main characteristic of YRC series

- 1.)FIXED TUBE COMPACT OIL COOLER
- 2)3D FIN COPPER TUBE TYPE



四、YSR Selection method

1. Calculate heat rejection needed Q(Kcal/hr)

(1) . Calculate it according to temperature and flow of oil $Q=Cp q(T1-T2)$
 In the formular:C---specific heat of oil p---density of oil q---flow of oil T1---inlet temperature
 T2---outlet temperature.

(2) .Calculate it according to the calorific value of hydraulic system $Q=Pr-Pc-Phc$
 In the formular:Pr---input power of the system Pc---effective output power Phc---heat dissipated power
 of tank,pipeline.

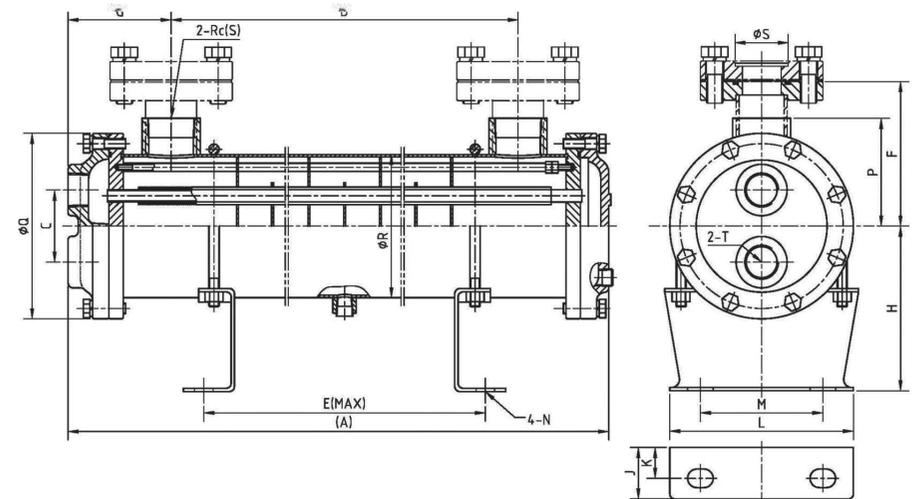
2.Choose the right model

Check the performance curve base on calculated heat rejection and flow rate,on the right of the cross point is model needed.

3.Additional instruction

There may be difference in condition between actual use and performance test.Select towards small type cooler when the viscosity of oil is small,the flow of water is large and ΔT is large also.And vice versa. We provide selection service,if needed.

一、YRC series The construction scheme



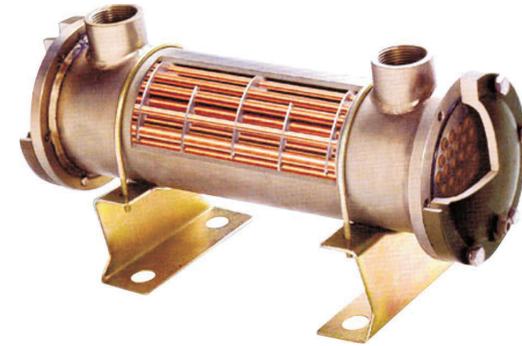
YRC FIXED TUBE COMPACT TYPE

单位:mm

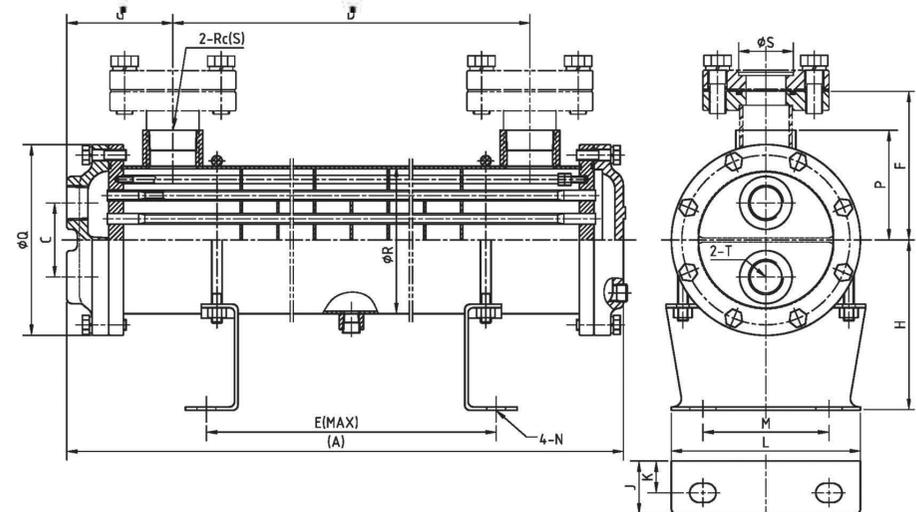
TYPE	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YRC-410	469	60	284	240	110	95	125	50	20	160	110	18 * 22	87	150	114	Rc11/4 φ43 (DN32)	Rc3/4
413	547		362	318													
415	613		428	384													
419	757		572	528													
422	829		644	600													
424	901		716	672													
428	1045		860	816													
YRC-518	452	70	262	200	140	101	160	50	20	180	120	18 * 25	105	180	139	Rc11/2 φ52 (DN40)	Rc1
525	530		340	280													
530	596		406	345													
535	740		550	490													
540	812		622	560													
545	884		694	630													
550	1028		838	775													
560	1171		981	920													
562	1244		1054	995													
565	1281		1091	1030													
YRC-645	820		70	574													
650	890	646		570													
655	1035	790		715													
665	1180	933		860													
670	1290	1043		970													
675	1380	1133		1060													
680	1490	1243		1170													
685	1600	1353		1280													
690	1680	1433		1300													
YRC-885	840	100		541	441	180	154	180	80	37	240	180	22 * 35	165	270	219	Rc21/2 φ76 (DN65)
895	910		613	513													
8110	1055		757	657													
8130	1200		900	800													
8140	1310		1010	910													
8150	1400		1100	1000													
8160	1510		1210	1110													
8170	1620		1320	1220													
8190	1790		1490	1390													
8200	1910		1610	1510													
YRC-10180	1220		120	880	760												
10200	1330	990		870													
10220	1420	1080		960													
10240	1530	1190		1070													
10260	1640	1300		1180													
10280	1720	1380		1260													
10300	1810	1470		1350													
10320	1930	1590		1470													
10340	2050	1710		1590													
10360	2190	1850		1730													

YFC(Y) SERIES THREADED TUBE OIL COOLER

Main characteristic of YFC(F) series
Tube material:copper with thread



YFC series The construction scheme



二、YFC SERIES Specification -FIXED TUBE

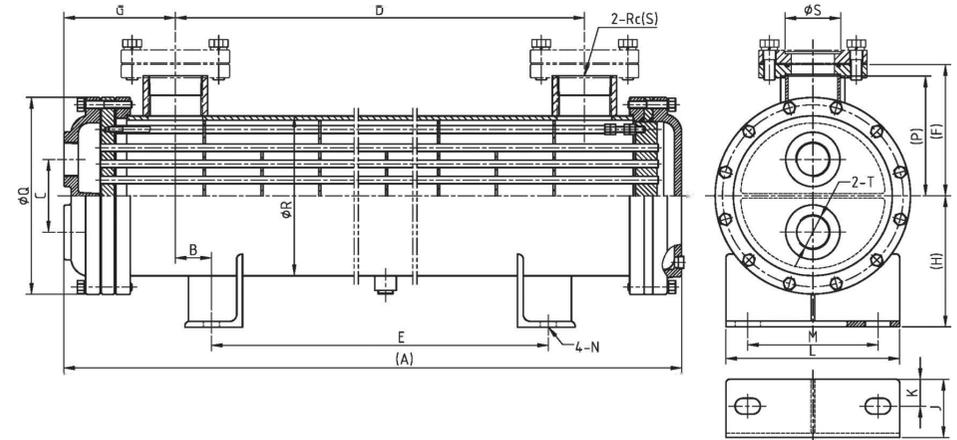
型号	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YFC-303	309		152	107													
304	381		224	179													
306	453		296	251													
307	531	45	374	329	85	81	87	35	15	95	58	11	62	120	89	Rc3/4 φ28.5 (DN20)	Rc3/4
308	597		440	395								20					
310	741		584	539													
311	813		656	611													
312	885		728	683													
YFC-410	469		284	240													
413	547		362	318													
415	613		428	384													
419	757	60	572	528	110	95	125	50	20	160	110	18	87	150	114	Rc11/4 φ43 (DN32)	Rc3/4
422	829		644	600								*					
424	901		716	672								22					
428	1045		860	816													
YFC-519	530		340	276													
522	596		406	342													
529	740		550	486													
532	812	70	622	558	140	101	160	50	20	180	120	18	105	180	139	Rc11/2 φ52 (DN40)	Rc1
535	884		694	630								*					
542	1028		838	774								25					
549	1171		981	917													
554	1281		1091	1027													
YFC-635	820		574	500													
640	890		646	570													
645	1035		790	715													
650	1180		933	860													
660	1290	70	1043	970	160	127	180	67	30	220	140	18	122	210	165	Rc2 φ65 (DN50)	Rc1
665	1380		1133	1060								30					
670	1490		1243	1170													
675	1600		1353	1280													
680	1680		1433	1360													
YFC-860	840		541	441													
870	910		613	513													
885	1055		757	657													
8100	1200		900	800													
8110	1310	100	1010	910	180	153	180	80	37	240	180	22	165	270	219	Rc21/2 φ76 (DN65)	Rc11/2
8120	1400		1100	1000								35					
8130	1510		1210	1110													
8145	1620		1320	1220													
8160	1790		1490	1390													
8170	1910		1610	1510													

三、YLC Customized size -FIXED TUBE

单位:mm

型号	A	C	D	E	G	H	J	K	L	M	N	P	Q	R	S	T
YLC-305	347		190	130												
306	562		405	345												
308	689	45	532	472	81	75	30	15	130	102	11	70	120	89	Rc1	Rc3/4
310	822		665	605												
312	962		805	745												
YLC-510	397		160	90												
516	577		340	172												
525	777	80	540	470	121	100	30	15	172	120	14	100	139	140	Rc1 φ35 (DN25)	Rc3/4
532	947		710	640							24					
540	1147		910	840												
550	1301		1064	994												
YLC-860	1111		870	720												
872	1281	100	1040	890	125.5	188	48	23	280	200	18	150	270	219	Rc2 φ65 (DN50)	Rc11/2
885	1521		1280	1130							*					
8100	1787		1530	1380	133.5						26					

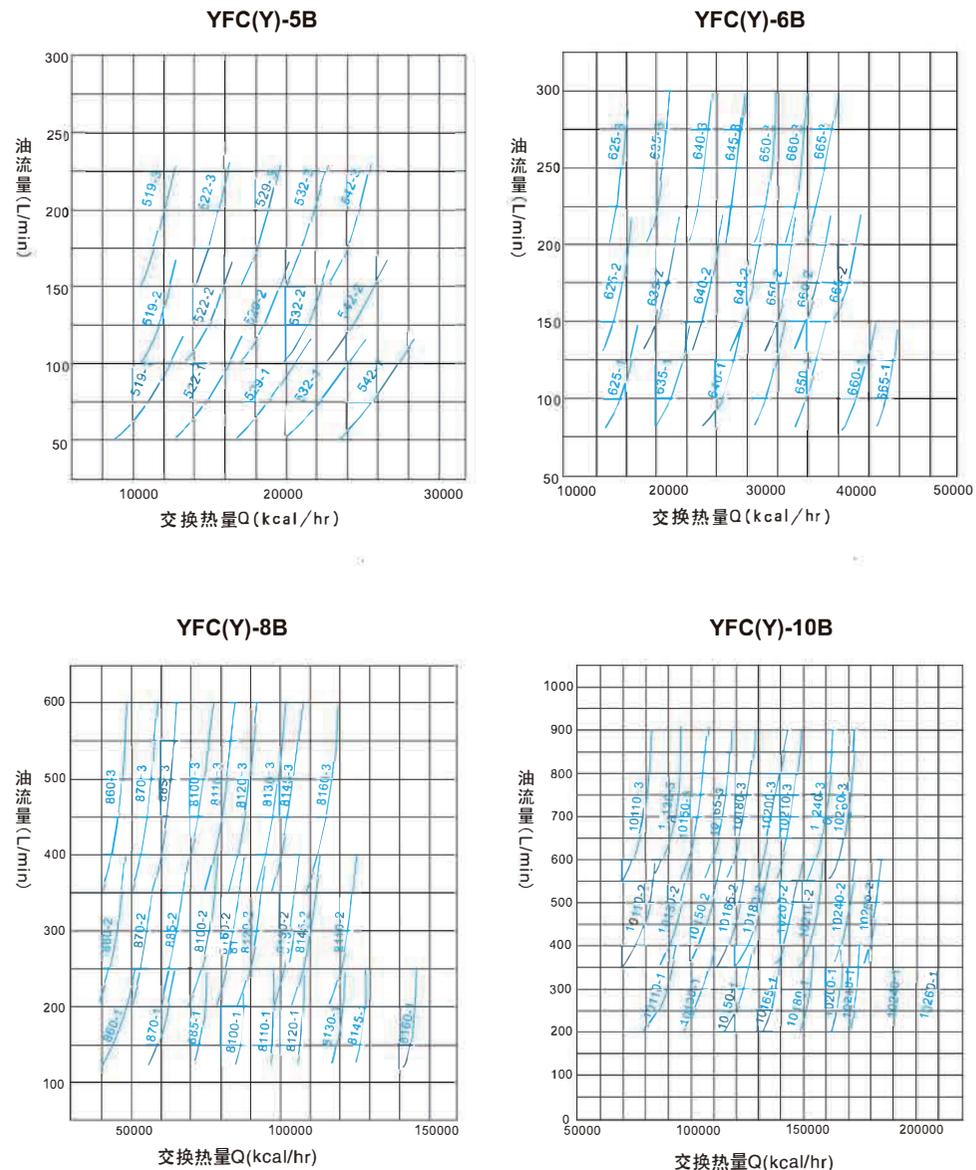
四、YFCY (The construction scheme -FLOATING TUBE)



五、YFCY Series Specification -FLOATING TUBE

型号	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YFCY-519	527	32	70	317	253	140	121	160	50	20	180	120	18	105	180	139	Rc1 1/2 φ52 (DN40)	Rc1
522	593			383	319													
529	737			527	463													
532	809			599	535													
535	881			671	607													
542	1025			815	751													
549	1168			958	894													
554	1278	1068	1004															
YFCY-635	810	37.5	70	551	476	160	145	180	67	30	220	140	18	122	210	165	Rc2 φ65 (DN50)	Rc1
640	882			623	548													
645	1026			767	692													
650	1169			910	835													
660	1279			1020	945													
665	1369			1110	1035													
670	1479			1220	1145													
675	1589			1330	1255													
680	1669			1410	1335													
YFCY-860	830	50	100	541	441	180	155	180	80	37	240	180	22	165	270	219	Rc2 1/2 φ77 (DN65)	Rc1 1/2
870	905			613	513													
885	1050			757	657													
8100	1190			900	800													
8110	1300			1010	910													
8120	1390			1100	1000													
8130	150			1210	1110													
8145	1610			1320	1220													
8160	1780			1490	1390													
8170	1900			1610	1510													
YFCY-10150	1210	60	120	880	760	220	174	220	80	37	280	200	22	200	340	273	Rc3 φ92 (DN80)	Rc1 1/2
10165	1320			990	870													
10180	1410			1080	960													
10200	1520			1190	1070													
10210	1630			1300	118													
10225	1710			1380	1260													
10240	1800			1470	1350													
10260	1920			1590	1470													
10280	2040			1710	1590													
10300	2180			1850	1730													
YFCY-12260	1495			55	150													
12280	1605	1170	1000															
12300	1715	1280	1100															
12320	1795	1360	1150															
12340	1885	1450	1150															
12360	2005	1570	1200															
12400	2125	1690	1200															
12420	2265	1830	1250															
12440	2355	1920	1250															
12460	2445	2010	1300															
12480	2535	2100	1350															

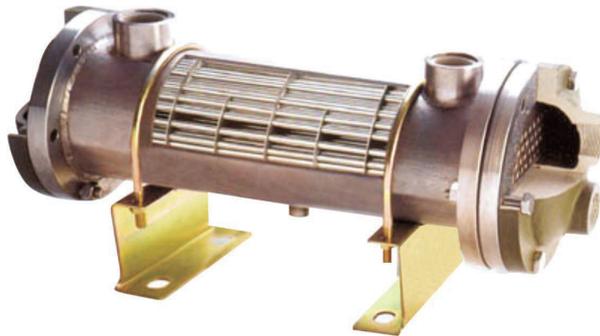
六、YFC(Y) Series Performance curve



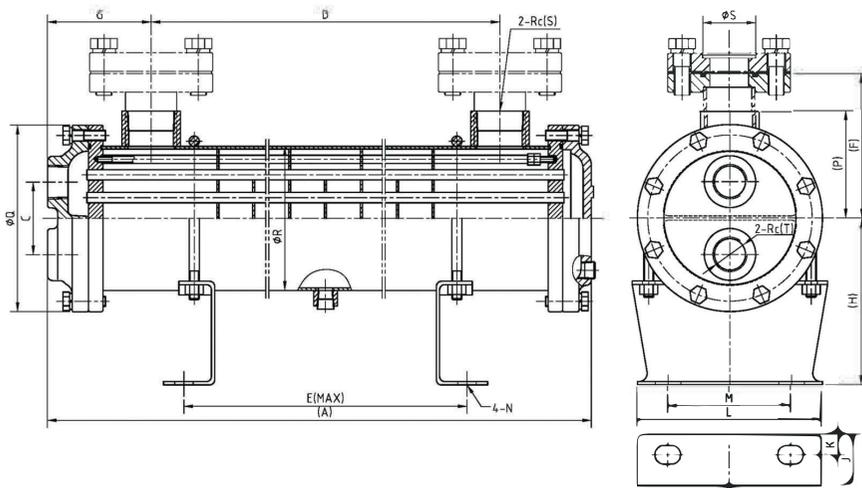
YBC(Y) NO-FIN TUBE TYPE-FLOTING TYPE

Main characteristic of YBC(Y) series

- 1)The tube without fin
- 2)material of tube SUS304



一、YBC Series The construction scheme-FIXED TYPE

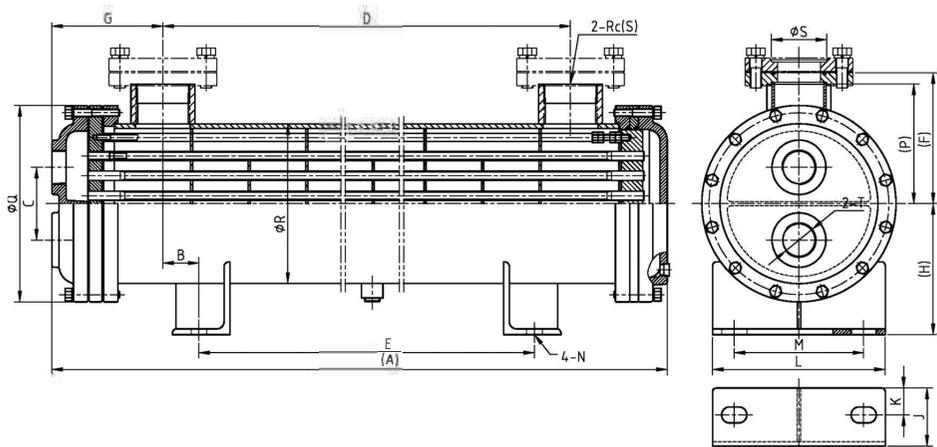


二、YBC Series Specification-FIXED TYPE

单位:mm

型号	A	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YBC-302	309		152	107													
303	381		224	179													
304	531		374	329													
305	597	45	440	395	85	81	87	35	15	95	58	11	62	120	89	Rc3/4 φ28.5 (DN20)	Rc3/4
306	741		584	539								20					
307	813		656	611													
308	885		728	683													
YBC-406	469		284	240													
407	547		362	318													
408	613		428	384													
410	757	60	572	528	110	95	125	50	20	160	110	18	87	150	114	Rc11/4 φ43 (DN32)	Rc3/4
412	829		644	600								22					
143	901		716	672													
415	1045		860	816													
417	1188		1003	959													
YBC-510	530		340	276													
512	596		406	342													
515	740		550	486													
517	812	70	622	558	140	101	160	50	20	180	120	18	105	180	139	Rc11/2 φ52 (DN40)	Rc1
519	884		694	630								25					
522	1028		838	774													
526	1171		981	917													
528	1281		1091	1027													
YBC-621	746		502	427													
623	782		538	463													
627	916		672	597													
631	1034	70	790	715	160	127	152	38	20	210	140	18	122	210	165	Rc2 φ62 (DN50)	Rc1
634	1128		884	809								30					
637	1212		968	893													
640	1332		1088	1013													
643	1402		1158	1083													
645	1487		1243	1168													
YBC-842	910		613	513													
850	1055		757	657													
858	1200		900	800													
864	1310		1010	910													
869	1400	100	1100	1000	180	153	180	80	37	280	200	22	165	270	219	Rc21/2 φ76 (DN65)	Rc11/2
877	1510		1210	1100								35					
881	1620		1320	1200													
890	1790		1490	1390													
896	1910		1610	1510													

三、YBCY Series Performance curve-FLOATING TYPE



四、YBCY Specification -FLOATING TYPE

单位:mm

TYPE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YBCY 510	528			317	253													
512	594			383	319													
515	738			527	463													
517	810	32	70	599	535	140	121	160	50	20	180	120	18	105	180	139	Rc11/2 φ52 (DN40)	Rc1
519	882			671	607								25					
522	1026			815	751													
526	1169			958	894													
528	1279			1068	1004													
YBCY 621	738			479	404													
623	774			515	440													
627	908			649	574													
631	1026			767	692								18				Rc2	
634	1120	37.5	70	861	786	160	145	180	50	20	210	140	*	122	210	165	φ65 (DN50)	Rc1
637	1204			945	870								30					
640	1324			1065	990													
643	1394			1135	1060													
645	1479			1220	1145													
YBCY 842	905			613	513													
850	1050			757	657													
858	1190			900	800													
864	1300			1010	910								22				Rc21/2	
869	1390	50	100	1100	1000	180	155	180	80	37	240	180	*	165	270	219	φ77 (DN65)	Rc11/2
877	1500			1210	1110								35					
881	1610			1320	1220													
890	1780			1490	1390													
896	1900			1610	1510													

单位:mm

TYPE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
YBCY1085	1270			880	760													
1095	1380			990	870													
10100	1470			1080	960													
10110	1580			1190	1070													
10120	1690	60	120	1300	1180	220	210	220	80	37	380	200	22	200	350	273	Rc3 φ92 (DN80)	Rc11/2
10127	1770			1380	1260								*					
10134	1860			1470	1350								35					
10144	1980			1590	1470													
10154	2100			1710	1590													
10165	2240			1850	1730													
YBCY12140	1490	55		1060	950													
12150	1605	85		1170	1000													
12165	1715	95		1280	1100													
12176	1795	105		1360	1150													
12186	1885	150		1450	1150													
12200	2005	185	105	1570	1200	280	237	280	100	40	350	250	22	226	445	324	Rc3 φ92 (DN80)	Rc2
12214	2125	245		1690	1200								*					
12229	2265	290		1830	1250								40					
12240	2355	335		1920	1250													
12250	2445	355		2010	1300													
12260	2535	375		2100	1350													
YBCY14250	1886	105		1310	1100													
14270	1956	150		1400	1100													
14290	2076	160		1520	1200													
14310	2196	220		1640	1200													
14333	2336	240	220	1780	1300	280	334	280	100	40	400	300	22	243	470	357	Rc3 φ92 (DN80)	φ77.5 (DN65)
14348	2426	235		1870	1400								*					
14363	2516	280		1960	1400								50					
14378	2606	325		2050	1400													
14395	2706	325		2150	1500													
14409	2796	370		2240	1500													
YBCY16335	2153	140		1480	1200													
16360	2273	200		1600	1200													
16385	2413	220		1740	1300													
16400	2503	265		1830	1300													
16420	2593	310	240	1920	1300	350	395	350	110	40	400	300	22		560	407	φ116 (DN100)	φ90.5 (DN80)
16435	2683	305		2010	1400								*					
16455	2783	355		2110	1400								50					
16470	2883	350		2200	1500													
16485	2963	345		2290	1600													
16505	3053	390		2380	1600													
YBCY18540	2303	40		1880	1500													
18580	2443	110		1720	1500													
18605	2533	130		1810	1550													
18632	2623	175		1900	1550													
18658	2713	195	310	1990	1600	380	401	380	100	40	450	350	26		620	480	φ116 (DN100)	φ90.5 (DN80)
18687	2813	245		2090	1600								*					
18713	2903	240		2180	1700								50					
18739	2993	285		2270	1700													
18765	3803	280		2360	1800													

