

RNPW Co.,LTD.



HYDRAULIC HOSES
HYDRAULIC PUMPS
HYDRAULIC MOTOR
HYDRAULIC CYLINDER
HYDRAULIC POWER PACK
HYDRAULIC ACCESSORIES
DIRECTIONAL CONTROL VALVE

PUMPS HYDRAULIC



PUMPS HYDRAULIC



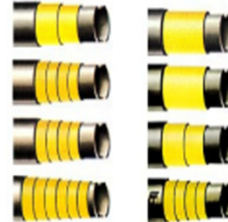
FITTING HYDRAULIC



PISTON PUMPS



PUMPS HYDRAULIC



SOLENOID VALVE



CYLINDER HYDRAULIC



SFN MODEL

SUCTION FILTER FOR MINERAL BASE FLUIDS



1. SFN Suction filter is in tank filter for mineral base fluids.
2. Stainless Notch wire.
3. 60, 100, 150, 200 Mesh available.

PART LIST

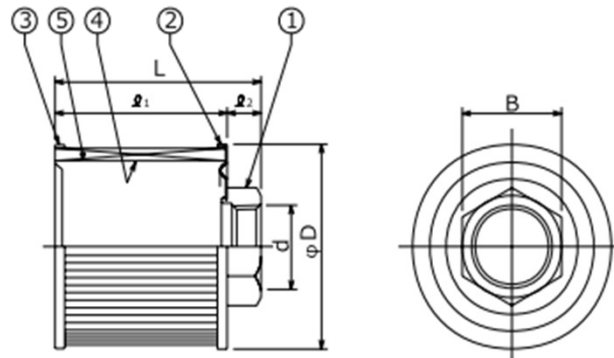
ILL #	NAME	MATERIAL	QTY	REMARKS
5	End Plate	SECC	1	
4	End Plate/Connection	SECC	1	
3	Notch wire	SUS304	1part	
2	Medium Support Frame	A6063	1	
1	Connecting Port	A6063	1	

Dimension and Standard Flow Rate

Model	Port Size	D	B	H	H ₁	T	Weight(kg)	Standard Flow Rate (l/min)
SFN-02	Rc(PT) 1/4	63	26	103	92	11	0.21	6.8
SFN-03	Rc(PT) 3/8		30	164	151	13	0.28	16.7
SFN-04	Rc(PT) 1/2		36					30
SFN-06	Rc(PT) 3/4							41
SFN-08	Rc(PT) 1	83	46	209	192	17	0.49	60
SFN-10	Rc(PT) 1 1/4	104	55	230	212	18	1.02	160
SFN-12	Rc(PT) 1 1/2	124	65	250.5	232.5	20	1.42	200
SFN-16	Rc(PT) 2		75	332.5	312.5	20	1.77	270
SFN-20	Rc(PT) 2 1/2	147	90	450	423	27	2.77	425
SFN-24	Rc(PT) 3		110				2.87	530

SFT MODEL

SUCTION FILTER FOR MINERAL BASE FLUIDS



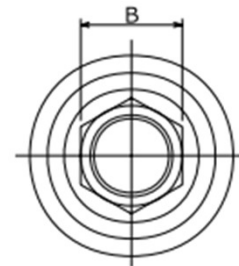
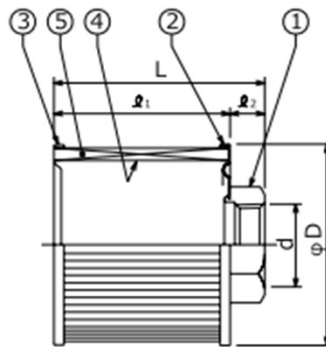
1. SFT Suction filter is in tank filter for mineral base fluids.
2. Stainless steel wire mesh.
3. 60, 100, 150, 200 Mesh available.

PART LIST

5	Mesh Strainer	SUS	1	
4	Core	SECC	1	
3	End Plate(Lower)	SECC	1	
2	End Plate(Upper)	SECC	1	
1	Connecting Port	SS400	1	
ILL.#	NAME	MATERIAL	QTY	REMARKS

Dimension and Standard Flow Rate

Model	Port Size	φD	B	L	Q ₁	Q ₂	Weight(kg)	Standard Flow Rate (Q / min)
SFT-02	Ra(PT) 1/4	63	19	45	36	9	0.065	7
SFT-03	Ra(PT) 3/8		22	46		10	0.07	17
SFT-04	Ra(PT) 1/2		27	71	59	12	0.095	24.5
SFT-06	Ra(PT) 3/4		32	72		13	0.1	51.5
SFT-08	Ra(PT) 1	82	41	85	71	14	0.19	91
SFT-10	Ra(PT) 1 1/4	104	50	87	71	16	0.3	140
SFT-12	Ra(PT) 1 1/2	124	55	97.5	81.5		0.39	206
SFT-16	Ra(PT) 2		70	130	110	20	0.56	337
SFT-20	Ra(PT) 2 1/2	147	85	150	128	22	0.78	605
SFT-24	Ra(PT) 3		100	152		24	0.96	817



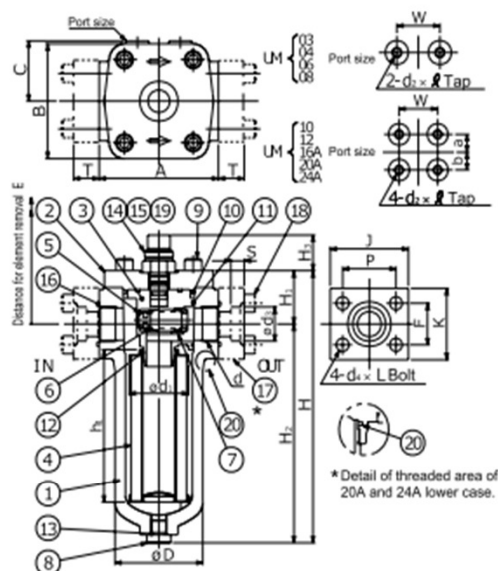
1. SFG Suction filter is in tank filter for fire resistance fluids.
2. All stainless steel construction.
3. 60, 100, 150, 200 Mesh available.
4. FLUIDS
 - Phosphate Ester
 - Water Glycol
 - Water

PART LIST

5	End Plate	SUS	1	
4	End Plate/Connection	SUS304	1	
3	Notch wire	SUS304	1	
2	Medium Support Frame	SUS304	1	
1	Connecting Port	SUS304	1	
ILL #	NAME	MATERIAL	QTY	REMARKS

Dimension and Standard Flow Rate

Model	Port Size	φD	B	L	Q ₁	Q ₂	Weight(kg)	Standard Flow Rate (Q / min)
SFG-02	Rc(PT)1 ₄	63	19	45	36	9	0.11	7
SFG-03	Rc(PT)3 ₈		22	46				17
SFG-04	Rc(PT)1 ₂		27	71	59	12	0.115	31
SFG-06	Rc(PT)3 ₄		32	72				52
SFG-08	Rc(PT)1	82	41	85	71	14	0.25	91
SFG-10	Rc(PT)1 ₄	104	50	87	71	16	0.45	145
SFG-12	Rc(PT)1 ₂	124	55	97.5	81.5		0.66	210
SFG-16	Rc(PT)2		70	130	110	20	0.76	340
SFG-20	Rc(PT)2 ₁	147	85	150	128	22	1.32	580
SFG-24	Rc(PT)3		100	152				830



- Maximum operating pressure 7MPa(70kgf/cm²)
Rated Fatigue Pressure 7MPa(70kgf/cm²) × 10⁷ Cycles
- Filter element is upward removal direction.
- Elements are common to all "U" series (UL, UM, UH).
- Both thread and flange type are the same.
Matching flange is available as option.
- Flow direction can be changed by rotating the upper cover by 180 degrees.
(Standard is the left-right flow as shown in picture.)
- Specify fluid type for "O" ring compatibility.

Element Differential Pressure	Option	
	Indicator Pressure (Change to red)	By Pass Valve (Opening Pressure)
0.7MPa	0.3MPa	0.35MPa

PART LIST

ILL #	NAME	MATERIAL	QTY	REMARKS
20	"O"ring	NBR	1	AS 568-259(20,24 ONLY)
19	Indicator		1	
18	Hexagon socket head cap screw	SCM435	8	Option
17	companion-flange	SS400	2	
16	"O"ring	NBR	2	JISB 2401. 1A
15	"	"	1	" 1A
14	"	"	1	" 1B
13	"	"	1	" 1A
12	"	"	1	" 1A
11	"	"	1	" 1A
10	"O"ring	NBR	1	JISB 2401. 1A
9	Hexagon socket head cap screw	SCM435	4	
8	PF(G)3/8 drain plug	SCM435	1	10-24:G(PF) 1/2
7	Spring hold plate	SS400	1	
6	Spring	SWPA	1	Option
5	By pass valve	SECC	1	
4	Element		1	
3	Flow direction changing device	ADC12	1	
2	Cover	FCD500	1	
1	Body	FCD500	1	

"O" ring and Gasket list

ILL #	10	11	12	13	14	15	Distance for element removal E	Element
MODEL							h ₁	d ₁
UM-03		G-30					190	85.3 62.2
UM-04	G-70		P-32					
UM-06		G-40		P-14			280	155.3 62.2
UM-08					P-18	P-14		
UM-10	G-95	G-55	G-45				360	204.5 82.2
UM-12				P-18				
UM-16A	G-110	G-65	G-60				430	254.5 102.2
UM-20A	G-135	G-95	G-80				530	304.5 124
UM-24A								

- H3 height of indicator. I Model ... 36mm E Model ... 91mm
Adding this height to distance element removal.

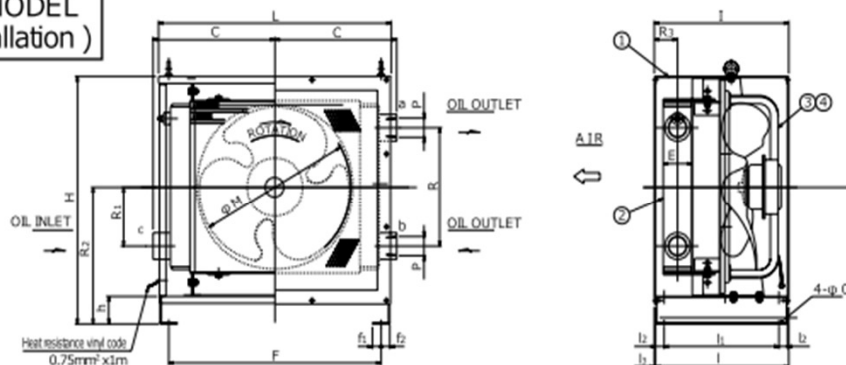
Dimension and Standard Flow Rate

MODEL	d	H	H ₁	H ₂	A	B	C	D	W	a	b	d ₂ × Ø	Matching Flange (Option)										Weight kg*	Standard Flow Rate (ℓ / min)
													d ₃	S	T	P	F	J	K	d ₄ × Ø	16			
UM-03	Rc(PT) 3/8	195	49	146	120	116	61	92	45			M10 × 15	17.8	11	21	48	24	70	52	M10 × 35	G-30	8.9	25	
UM-04	Rc(PT) 1/2												22.2										44	
UM-06	Rc(PT) 3/4	276	54	222	125	116	61	92	45			M10 × 15	27.7	14	27	56	42	82	72	M12 × 45	G-40	11.1	85	
UM-08	Rc(PT) 1												34.5										100	
UM-10	Rc(PT) 1 1/4	361	68	293	170	151	78	122	60	20	25	M10 × 15	43.2	16	31	74	52	102	88	M16 × 55	G-55	22.7	155	
UM-12	Rc(PT) 1 1/2												49.1										180	
UM-16A	Rc(PT) 2	433	75	358	180	150	77	132	64	20	30	M10 × 15	61.1	11	24	76	52	100	94	M12 × 45	G-70	21.5	360	
UM-20A	Rc(PT) 2 1/2	525	96	429	215	176	95	165.2	90	25	40	M12 × 20	77.1	15	31	102	80	134	126	M16 × 60	G-100	37.0	600	
UM-24A	Rc(PT) 3												90.0										660	

* The weight not including Matching Flange.

► ATF- $\square$ -H MODEL (With casing) Specifications and dimensions

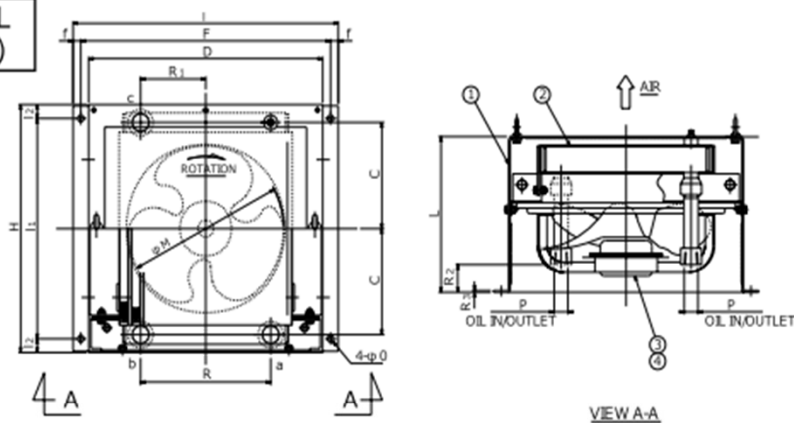
ATF- $\square$ -H MODEL
(Horizontal installation)



Model	No.	L	ℓ	ℓ ₁	ℓ ₂	ℓ ₃	H	h	F	f ₁	f ₂	O _p	R	R ₁	R ₂	R ₃	C	E	P	I	M _p	Weight (kg)	Fan motor Model	Motor 50/60Hz	Current (A) 50/60Hz
ATF-3051-H1	422	255	215	20	1.6	451	60	357	20	20	12	90	180	255	40.6	232.5	50	Rc1¾	258	258	20	EF-25UTB 03	3 ph 200V x 4P Rated output 25W	0.21/0.20	
ATF-3551-H1	452	260	220	20	1.6	491	60	405	20	20	12	125	250	275	39.6	250	50	Rc1	263	300	23	EF-30UTB 04	3 ph 200V x 4P Rated output 50W	0.33/0.32	
ATF-3552-H1																									
ATF-4061-H1	537	305	265	20	1.6	541	60	490	20	20	15	130	260	300	52.6	281	66	Rc1¼	308	350	31	EF-35UTB 03	3 ph 200V x 4P Rated output 100W	0.62/0.53	
ATF-4062-H1																									
ATF-5061-H1	642	350	270	60	1.6	631	60	595	20	20	15	191.25	213.75	345	44.6	344	66	Rc1¼	353	400	35	EF-40UTB01	3 ph 200V x 4P 3 ph 200V x 4P Rated output 200W	1.1/1.2	
ATF-6061-H																									
ATF-6061-H	737	390	300	20	1.6	731	60	690	20	20	15	213.75	213.75	395	45.6	392.5	66	Rc1½	383	500	54	EF-50UTB01	3 ph 200V x 4P Rated output 400W	2.1/2.2	

Notes: ATF- $\square$ -H Model oil inlet/outlet uses 2 ports among a — c. 1 pass oil flow for large flow rate.
ATF- $\square$ -H Model oil inlet/outlet uses a and b port. 2 passes for small flow rate.

ATF- $\square$ -V MODEL
(Vertical installation)



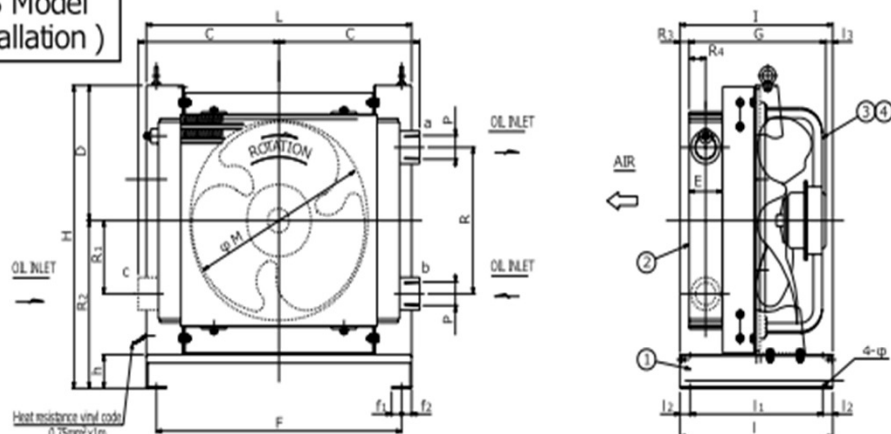
型式	No.	L	ℓ	ℓ ₁	ℓ ₂	H	R	R ₁	R ₂	R ₃	C	D	F	f	P	Q _p	M _p	Weight (kg)	Fan motor Model	Motor 50/60Hz	Current (A) 50/60Hz
ATF-3051-V1	277	470	370	25	420		90	50	2.3	175.5	410	440	15	Rc1¾	12	258	24	EF-25UTB 03	3 ph 200V x 4P Rated output 25W	0.21/0.20	
ATF-3052-V1							180														
ATF-3551-V1	282	510	400	25	450		125	50	2.3	192.5	450	480	15	Rc1	12	300	26	EF-30UTB 04	3 ph 200V x 4P Rated output 50W	0.33/0.32	
ATF-3552-V1							250														
ATF-4061-V1	322	570	475	30	535		130	60	2.3	220	510	540	15	Rc1¼	15	350	36	EF-35UTB 03	3 ph 200V x 4P Rated output 100W	0.62/0.53	
ATF-4062-V1							260														
ATF-5061-V1	372	640	580	30	640		276.5	191.25	93	2.3	276.5	580	610	15	Rc1¼	15	400	49	EF-50UTB01	3 ph 200V x4P Rated output 200W	1.1/1.2
ATF-6061-V	412	730	650	35	720		213.75	152.25	65	2.3	315	670	700	15	Rc1½	15	500	60	EF-50UTB01	3 ph 200V x 4P Rated output 400W	2.1/2.2

Notes: ATF- $\square$ -V Model oil inlet/outlet uses 2 ports among a — c. 1 pass oil flow for large flow rate.
ATF- $\square$ -V Model oil inlet/outlet uses a and b port. 2 passes for small flow rate.

Maximum operating pressure: 1 MPa (10kgf/cm²)
Maximum operating temperature: Oil side: 150°C, Air side: 50°C
Electric current mentioned is starting current.

► ATF-^{HS}_{VS} MODEL (Without casing) Specifications and dimensions

ATF- -HS Model
(Horizontal installation)

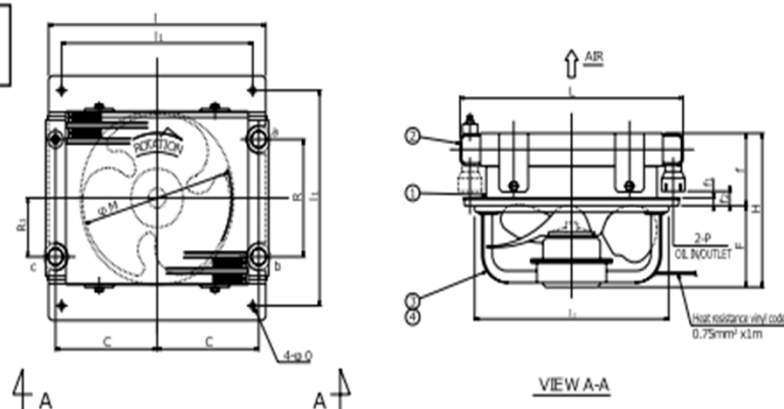


Notes: *, **: I2 dimension for 5061 and 6061 are 60 and 70 respectively.

Model	No.	L	ℓ	ℓ ₁	ℓ ₂	ℓ ₃	G	H	h	F	f ₁	f ₂	Q _p	R	R ₁	R ₂	R ₃	R ₄	C	D	E	P	I	M _p	Weight (kg)	Fan motor/Model	Motor 50/60Hz	Current(A) 50/60Hz
ATF-3051-HS1	415	255	215	20	5	236	450	60	357	20	20	12	90	180	255	14	25	232.5	195	50	Rc1 1/4	255	258	16	EF-25UTB 03	3 ph 200V x 4P Rated output 25W	0.21/0.20	
ATF-3551-HS1	445	260	220	20	4	243	490	60	405	20	20	12	125	250	275	13	25	250	215	50	Rc1	260	300	18	EF-30UTB 04	3 ph 200V x 4P Rated output 50W	0.33/0.32	
ATF-4061-HS1	530	305	265	20	14	273	540	60	490	20	20	15	130	260	300	18	33	281	240	66	Rc1 1/4	305	350	25	EF-35UTB 03	3 ph 200V x 4P Rated output 100W	0.62/0.53	
ATF-5061-HS1	635	350	270	20	10	275	630	60	595	20	20	15	131.25	345	10	33	344	285	66	Rc1 1/4	330	400	29	EF-50UTB01	3 ph 200V x 4P Rated output 200W	1.1/1.2		
ATF-6061-HS1	730	390	300	20	13.5	299	730	60	690	20	20	15	133.75	395	31	33	392.5	335	66	Rc1 1/2	365.5	500	49	EF-50UTB01	3 ph 200V x 4P Rated output 400W	2.1/2.2		

Notes: ATF- -HS Model oil inlet/outlet uses 2 ports among a — c. 1 pass oil flow for large flow rate.
ATF- -HS Model oil inlet/outlet uses a and b port. 2 passes for small flow rate.

ATF- -VS MODEL
(Vertical installation)



Model	No.	L	ℓ	ℓ ₁	ℓ ₂	H	F	f	f ₁	f ₂	C	R	R ₁	P	O _p	M _p	Weight (kg)	Fan motor Model	Motor 50/60Hz	Current (A) 50/60Hz
ATF-3051-VS1	385	375	330	335	236	125	111	11.6	21	175.5	90	180	Rc1 ³ / ₄	10	258	9	EF-25UTB03	3 ph 200V x 4P Rated output 25W	0.21/0.20	
ATF-3551-VS1	420	425	380	385	243	132	111	11.6	21	192.5	125	250	Rc1	10	300	12	EF-30UTB04	3 ph 200V x 4P Rated output 50W	0.33/0.32	
ATF-4061-VS1	502	472	434	440	273	131	142	11.6	36	220	130	260	Rc1 ¹ / ₄	15	350	16	EF-35UTB03	3 ph 200V x 4P Rated output 100W	0.62/0.53	
ATF-5061-VS	608	525	460	480	319	178	142	12.3	36	273.5	191.25	345	Rc1 ¹ / ₄	15	400	24	EF-40UTB01	3 ph 200V x 4P Rated output 200W	1.1/1.2	
ATF-6061-VS	685	625	560	580	356	213.5	142	12.3	26	315	213.75	395	Rc1 ¹ / ₂	15	500	31	EF-50UTB01	3 ph 200V x 4P Rated output 400W	2.1/2.2	

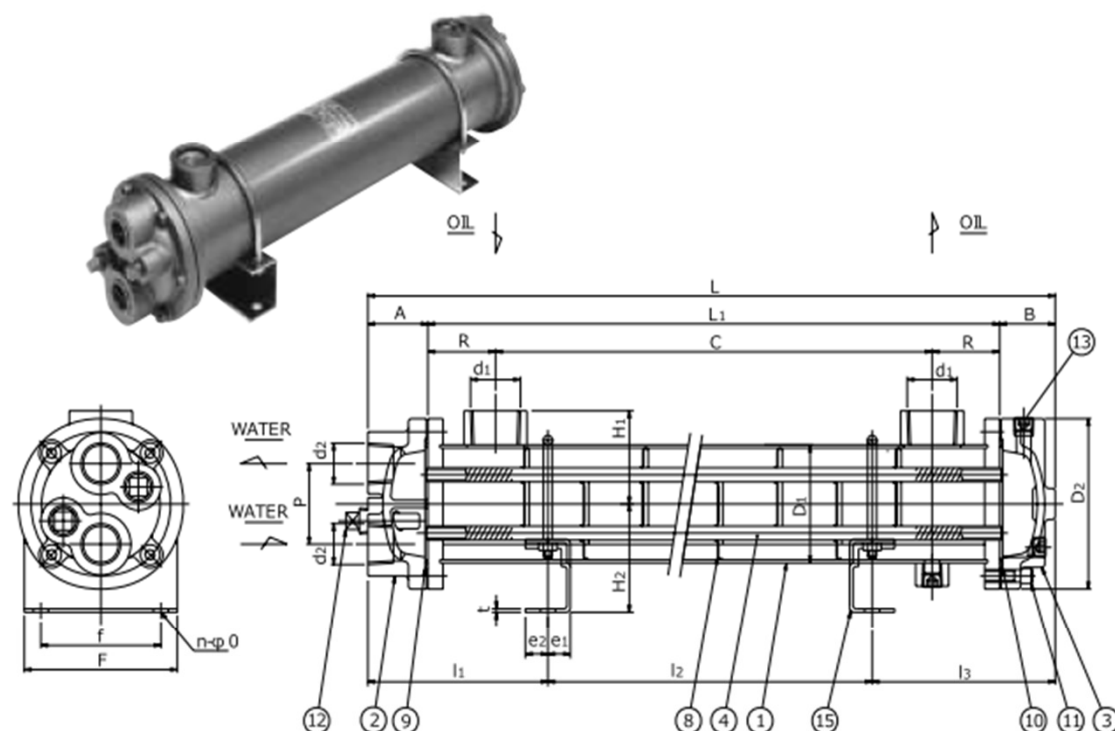
Notes: ATF- -HS Model oil inlet/outlet uses 2 ports among a — c. 1 pass oil flow for large flow rate.
ATF- -HS Model oil inlet/outlet uses a and b port. 2 passes for small flow rate.

Maximum operating pressure: 1 MPa (10kgf/cm²)

Maximum operating temperature: Oil side: 150°C, Air side: 50°C

Electric current mentioned is starting current.

► Construction & dimensions



Code	Shell										Leg										Water Cover					Weight
Model	L	L ₁	C	R	D ₁	H ₁	d ₁	l ₁	l ₂	l ₃	H ₂	F	f	e ₁	e ₂	t	n-φ0	D ₂	P	d ₂	A	B				kg
FCF-003	297	220	140																							5.5
FCF-006	447	400	320	40	φ63.5	50	Rc3/4	110	80	107	65	80	60	15	15	1.6	4-10	φ100	52	Rc1/2	40	37				6.3
FCF-108	347	270	180						105																	6.5
FCF-114	527	450	360	45	φ76.2	60	Rc1	120	285	120	70	102	80	15	15	2.3	4-10	φ110	52	Rc3/4	40	37				8.5
FCF-122	757	680	590						515																	11
FCF-226	437	340	240						160																	14
FCF-234	547	450	350						270																	16
FCF-242	627	530	430	50	φ114.3	85	Rc1 1/4	140	350	137	90	148	120	20	20	3.2	4-12	φ147	76	Rc1	51	46				17.5
FCF-256	777	680	580						500																	22
FCF-270	947	850	750						670																	25
FCF-350	587	450	340						250																	34
FCF-370	817	680	570						480																	42
FCF-390	987	850	740						650																	47
FCF-311	1107	970	860	55	φ139.8	95	Rc1 1/2	175	770	162	145	180	140	24	16	10	4-13.5	φ194	100	Rc1	72	65				52
FCF-313	1287	1150	1040						950																	58
FCF-314	1407	1270	1160						1070																	63
FCF-316	1587	1450	1340						1250																	69
FCF-411	834	680	540						390																	60
FCF-414	1004	850	710						560																	68
FCF-416	1124	970	830	70	φ165.2	140	Rc1 1/2	228	680	216	158	210	170	24	16	10	4-13.5	φ223	110	Rc1 1/4	83	71				74
FCF-418	1204	1050	910						760																	78
FCF-420	1304	1150	1010						860																	83