

Conventional /demountable (flange) oil separators

Application

To be intended for low pressure oil control system and suitable for use with HFC and HCFC refrigerants (R134a, R404A, R507, R407A, R407C, R22 etc.).

To be designed for use with scroll and reciprocating type compressor. not recommended for screw or rotary vane compressors.

How to work

The refrigeration gas containing oil in aerosol form from the compressor enters the oil separators. the oil contained in the refrigerant gas is intercepted when it passes through the inlet metal screen and middle baffle, and the velocity of the gas is reduced. the fine oil particle collide with one another and form heavier oil particles that impinge on the inner wall of the oil separator shell. the gas then passes through the outlet screen where final separation take place. the separated oil drips to the bottom of the oil separator where a floatball operated needle valve, returns the oil back to the crankcase or oil reservoir.

Technical Parameters

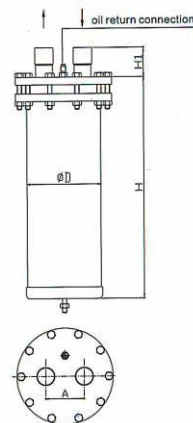
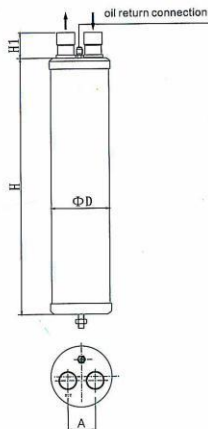
Medium Temperature: $-40 \sim +120^{\circ}\text{C}$

Max. working pressure: 3.1MPa

Burst pressure: 19MPa

Oil storage volume: 55833 → 559011/5301 → 5305 600ml,
569011 → 569417/6303 → 6305 1000ml

The thickness of paint film thickness: 50 → 80um





To select for conventional oil separator

Model No.	Conn Size (inch)	Dimensions(mm)				Nominal capacity (Kw) at the following evaporating temperature °C								
						R22			R134a			R404A/R507		
		ΦD	H(mm)	H1(mm)	A(mm)	-40°C	-20°C	5°C	-40°C	-20°C	5°C	-40°C	-20°C	5°C
55813	3/8"	102	242	35	48	4.8	5.9	6.4	2.9	4.0	5.6	4.8	5.7	6.3
55824	1/2"	102	242	35	48	5.3	6.2	7.0	3.2	4.5	6.2	5.3	6.2	7.0
55855	5/8"	102	336	37	48	15.8	17.5	19.3	11.4	13.4	15.8	14.4	16.4	19.3
55866	3/4"	102	336	37	48	24.6	26.2	28.1	16.7	19.3	22.4	22.8	25.2	28.8
55877	7/8"	102	418	39	48	24.6	26.2	28.1	16.7	19.3	22.4	22.8	25.2	28.8
55888	1"	102	448	45	48	31.7	34.3	37.0	22.4	26.3	29.9	30.0	33.4	37.4
55889	1-1/8"	102	448	45	48	31.7	34.3	37.0	22.4	26.3	29.9	30.0	33.4	37.4
559011	1-3/8"	102	473	45	48	40.4	43.6	47.5	28.1	33.6	40.4	36.7	43.3	49.0
569011	1-3/8"	159	350	43	70	45.2	47.4	49.2	33.4	40.4	48.4	41.0	45.2	50.8
569213	1-5/8"	159	428	48	70	56.3	58.9	63.3	41.3	48.4	56.3	51.0	57.3	65.1
569417	2-1/8"	159	490	52	70	91.4	102.3	105.5	63.3	74.8	88.8	88.5	98.4	108.6

To select for the demountable oil separator (flange oil separator)

Model No.	Conn Size (inch)	Dimensions(mm)				Nominal capacity (Kw) at the following evaporating temperature °C								
						R22			R134a			R404A/R507		
		ΦD	H(mm)	H1(mm)	A(mm)	-40°C	-20°C	5°C	-40°C	-20°C	5°C	-40°C	-20°C	5°C
5300	3/8"	102	247	30	48	4.8	5.9	6.4	2.9	4.0	5.6	4.8	5.7	6.3
5301	1/2"	102	247	30	48	5.3	6.2	7.0	3.2	4.5	6.2	5.3	6.2	7.0
5302	5/8"	102	341	32	48	15.8	17.5	19.3	11.4	13.4	15.8	14.4	16.4	19.3
5302A	3/4"	102	341	32	48	24.6	26.2	28.1	16.7	19.3	22.4	22.8	25.2	28.8
5303	7/8"	102	423	34	48	24.6	26.2	28.1	16.7	19.3	22.4	22.8	25.2	28.8
5303A	1"	102	453	40	48	31.7	34.3	37.0	22.4	26.3	29.9	30.0	33.4	37.4
5304	1-1/8"	102	453	40	48	31.7	34.3	37.0	22.4	26.3	29.9	30.0	33.4	37.4
5305	1-3/8"	102	478	40	48	40.4	43.6	47.5	28.1	33.6	40.4	36.7	43.3	49.0
6303	1-3/8"	152	355	38	70	45.2	47.4	49.2	33.4	40.4	48.4	41.0	45.2	50.8
6304	1-5/8"	152	433	43	70	56.3	58.9	63.3	41.3	48.4	56.3	51.0	57.3	65.1
6305	2-1/8"	152	495	47	70	91.4	102.3	105.5	63.3	74.8	88.8	88.5	98.4	108.6