

BOS Oil Separator/Demountable Oil Separator

□ Introduction



When compressor is in operation, the outlet of compressor always has lots of refrigerant oil. We need to install an oil separator between compressor and condenser to separate the refrigerant oil and refrigerants in order to prevent the compressor not lose too much refrigerant oil and prevent the refrigerant oil flow to system with refrigerants to interfere the condenser's heat function and evaporator cooling function. Then the oil will flow back to the compressor crankcase. Oil-return device operates on the ball valve moving on the bottom of oil separator and the high-low voltage theory. The oil separator can ensure the sufficiency of oil in compressor and let the compressor reach its best cooling performance.

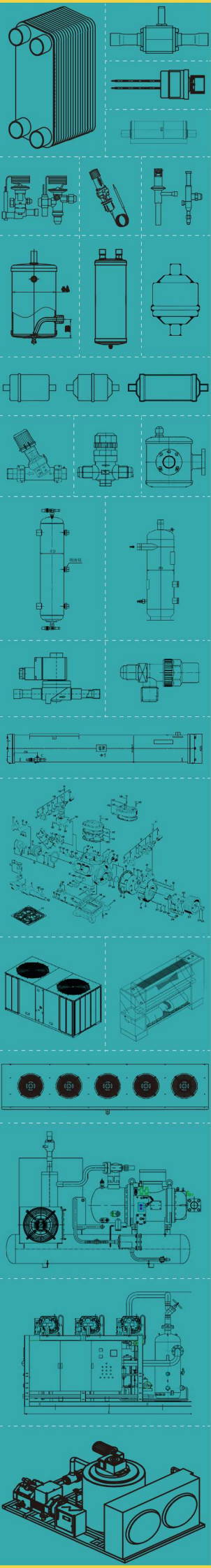
We need to pre-charge the oil before installing oil separator. The we charged of oil should be same as the oil in the compressor crankcase.

□ Technic parameter

Refrigeration oil	R22/R134a/R404A/R407C/R502/R507	Medium temperature	-40→+120℃
Max. working pressure	3100Kpa	Max. testing pressure	4000 Kpa
Oil storage volume	55833→559011/ 5301→5306 600ml	569011→569417 /6303→6305 800ml	

□ Type choosing parameter

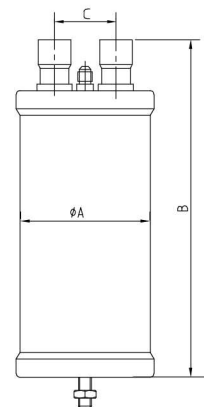
Size		The refrigeration oil volume based on below vaporize temperature								
		R22			R134a			R404a		
		-40℃	-20℃	5℃	-40℃	-20℃	5℃	-40℃	-20℃	5℃
BOS-55824	BOS-5301	5.3	6.2	7.0	3.2	4.5	6.2	5.3	6.2	7.0
BOS-55855	BOS-5302	15.8	17.5	19.3	11.4	13.4	15.8	14.4	16.4	19.3
BOS-55877	BOS-5303	24.6	26.2	28.1	16.7	19.3	22.4	22.8	25.2	28.8
BOS-55889	BOS-5304	31.7	34.3	37.0	22.4	26.3	29.9	30.0	33.4	37.4
BOS-559011	BOS-5305	40.4	43.6	47.5	28.1	33.6	40.4	36.7	43.3	49.0
BOS-569011	BOS-6303	45.2	47.4	49.2	33.4	40.4	48.4	41.0	45.2	50.8
BOS-569213	BOS-6304	56.3	58.9	63.3	41.3	48.4	56.3	51.0	57.3	65.1
BOS-569417	BOS-6305	91.4	102.3	105.5	63.3	74.8	88.8	88.5	98.4	108.6



BOS Oil Separator

Three-dimensional data

Type	Connection Size	A(mm)	B(mm)	C(mm)
BOS-55833	3/8	102	279	48
BOS-55824	1/2	102	279	48
BOS-55855A	5/8	102	338	48
BOS-55855	5/8	102	378	48
BOS-55877A	7/8	102	384	48
BOS-55877	7/8	102	460	48
BOS-55889A	1-1/8	102	414	48
BOS-55889	1-1/8	102	494	48
BOS-559011	1-3/8	102	524	48
BOS-569011A	1-3/8	159	394	75
BOS-569213	1-5/8	159	480	75
BOS-569417	2-1/8	159	485	75



Demountable Oil Separator

Three-dimensional data

Type	Connection Size	A(mm)	B(mm)	C(mm)
BOS-5301	1/2	102	275	48
BOS-5302	5/8	102	370	48
BOS-5303	7/8	102	455	48
BOS-5304	1-1/8	102	490	48
BOS-5305	1-3/8	102	520	48
BOS-5306	1-5/8	102	525	48
BOS-6303	1-3/8	159	404	75
BOS-6304	1-5/8	159	490	75
BOS-6305	2-1/8	159	495	75

