



# OIL STRAINER



## Product introduction ;

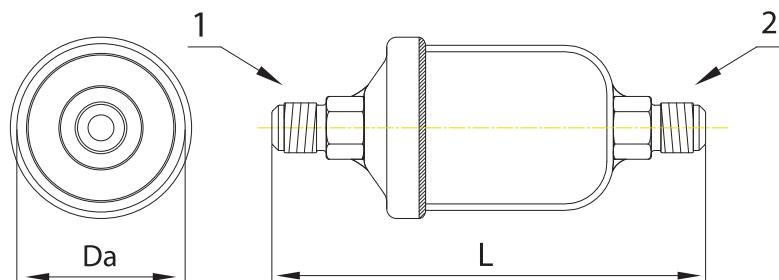
Oil strainers clear away the solid waste and the welding burrs that can cause damage in oil level regulators and compressors. They prevent all kind of dirt from going to the oil level regulator, there by minimizing the blockage risk of the oil level regulator.

Oil strainers are placed between the oil reservoir and the oil level regulator.  
Oil strainers should be fixed vertically and the inlet connection should be installed upwards.



- 1 Outlet Connection
- 2 Inlet Connection

Technical Data



Model	Dimension		Connection Size		CE PED 97/23/EC SEP
	Da (mm)	L (mm)	Inlet (Inch)	Outlet (Inch)	
OSR-3/8s	Ø51	134	3/8" SAE Flare	3/8" SAE Flare	SEP
OSR-3/8f		141	3/8" ODS	3/8" ODS	

## ADJUSTABLE OIL LEVEL REGULATORS

▶ OLR/A-01



▶ OLR/A-03



## FIXED OIL LEVEL REGULATORS

▶ OLR-01



▶ OLR-02



▶ OLR-04



### Product introduction ;

The function of an Oil Level Regulator is to prevent any problem with the flow of the oil into the compressor and to maintain and control the oil level in the compressor crankcase.

The oil level regulators are suitable for low pressure oil management systems and to use with reciprocating compressors. Oil fed from the 3/8" SAE inlet connection is supplied to the compressor crankcase via an internal ball float. The ball float system shuts off any excess oil supply to the crankcase. A reduction in oil level in the crankcase activates the ball float, which ensures to achieve and maintain the correct crankcase oil level.

In adjustable regulators, the height of the ball float is designed to control the oil supply, and therefore, adjust the oil level of the crankcase according to the requirements.

With the multiple ports on the fixed flanged connections, oil level regulators are designed to allow fitting to any kind of compressor. A separator adapter may be needed for the threaded connections in some compressors.

The Oil Level Regulators are offered in 2 models, each with 4 different designs.  
(Fixed OLR series and adjustable OLR/A series)

These 2 models have the following characteristics:

-) OLR-01 or OLR/A-01

Oil level regulators in 01 series have 2 flanges,

Sight glass dismantled from the compressor can be installed into the fixed flange connection and is able to rotate to any direction. It is a quiet conventional and economic product.

-) OLR-02 or OLR/A-02

02 series has 1 fixed flange and 2 sight glasses.

The product can be installed to the compressor from the fixed flange connection. Sight glasses in both sides allow monitoring the oil level conveniently.

-) OLR-03 or OLR/A-03 - OLR-04 or OLR/A-04

03 and 04 series have 1 fixed flange and 1 sight glass.

These products are the most ideal ones in terms of usage and cost because they have both fixed flange and one single sight glass.

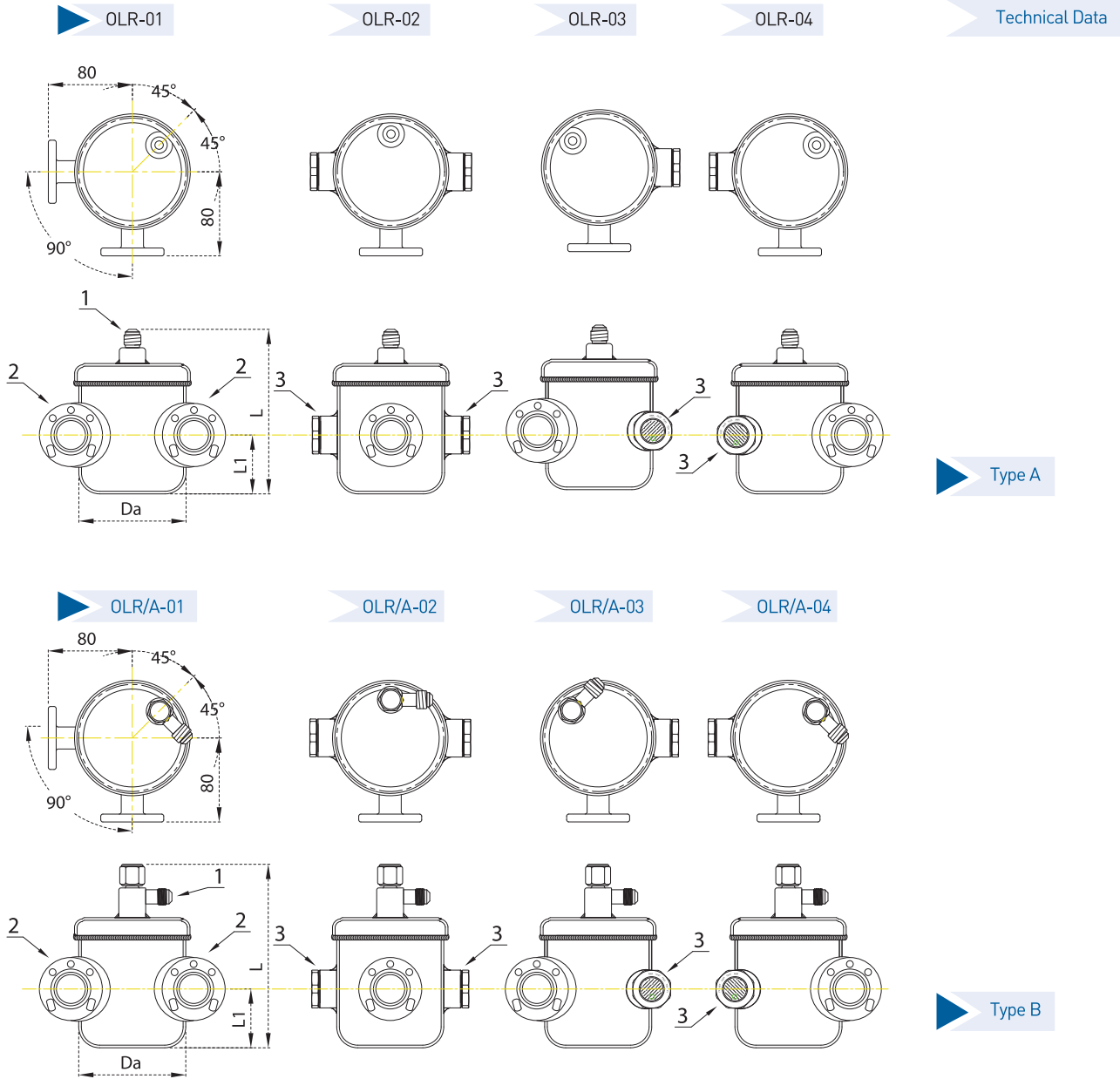
2 options allow you to rotate the sight glass to any direction and thus remove the need to use the sight glasses on the compressor.

Level indicator balls inside the sight glass allow monitoring the oil level.

Ball float and needle systems in the oil level regulators are completely made of stainless material.

We strongly recommend you to use oil filters with the oil level regulators.

# OIL LEVEL REGULATORS



Model	Dimensions			Connection Sizes			Type	Regulator Type	Allowable Oil Pressure Differential, bar	Allowable Operating Pressure	Allowable Operating Temperature	CE	
	Da (mm)	L (mm)	L1 (mm)	1 (mm)	2 (mm)	3 (mm)						PED 32 Bar	97/23/EC 45 Bar
OLR-01	Ø102	156,5	56	3/8" SAE Flare Inlet	3 Bolt 1.7/8" B.C. & 4 Bolt 50mm B.C.	2xSW36	A	Fixed	0.35 to 2.1	0 to 33 bar	0° C to +110° C	SEP	SEP
OLR/A-01		175					B	Adjustable	0.35 to 6.2				
OLR-02		156,5					A	Fixed	0.35 to 2.1				
OLR/A-02		175					B	Adjustable	0.35 to 6.2				
OLR-03		156,5					A	Fixed	0.35 to 2.1				
OLR/A-03		175					B	Adjustable	0.35 to 6.2				
OLR-04		156,5					A	Fixed	0.35 to 2.1				
OLR/A-04		175					B	Adjustable	0.35 to 6.2				



## Product introduction ;

The function of an Oil Reservoir is to provide a storage which stores the oil separated by oil separators to ensure that the oil is turned back to the crankcase of the compressor via oil level regulator.

Oil reservoir prevents circulation of the liquid to the oil level regulator, and thus the changes of oil flow caused by the compressor are prevented instantly.

Type of the oil reservoir should be determined according to the number of the compressor to be used or the oil volume of the unit.

Oil reservoirs operate in low pressure oil management systems.

### Rotalock Valve

2 units of 3/8"SAE rotalock valves are supplied as installed on each reservoir to facilitate easy control of the oil fill and drain.

### Sight Glass

Oil reservoirs have 2 sight glasses for visual indication of the oil level. Sight glasses are designed considering minimum and maximum levels.

Level indicator balls in the sight glass provide great convenience to see the oil level.

### Check Valve

A 3/8"SAE connection is provided at the top of the unit for fitting a check valve. Check valves are supplied according to the pressure demands.

A wide range of oil reservoirs with different volumes can be supplied.

Our oil reservoirs are in 2 different models, one with Deep Drawing other Steel Pipes casing. Please check the technical specifications for detailed information.

When the oil level is below the sight glass level on the oil reservoir, put some additional oil. Reservoirs should be installed in a position higher than the compressor crankcase. Oil reservoirs are manufactured according to the requirements of 97/23/EC.

## CHECK VALVE



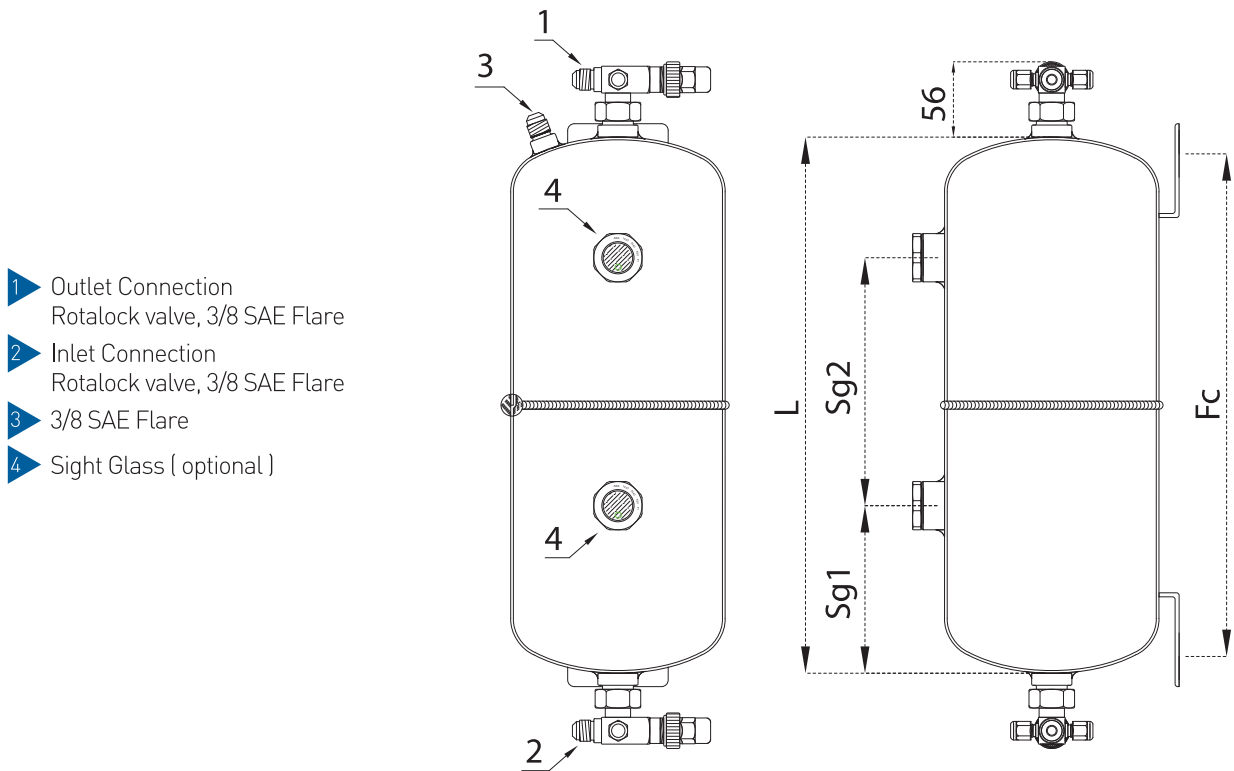
Model	Pressure Setting (barg)	Connection Size (Inch)		CE	
		Inlet	Outlet	PED	97/23/EC
S-9104	0,35 Fixed	3/8"SAE Flare Female	3/8"SAE Flare Male	SEP	
S-9104H	1,4 Fixed	3/8"SAE Flare Female	3/8"SAE Flare Male	SEP	
S-9104XH	2,4 Fixed	3/8"SAE Flare Female	3/8"SAE Flare Male	SEP	

# OIL RESERVOIRS



Technical Data

- Deep Drawn
- Max. Allowable Working Pressure - 33 Bar
- Max. Allowable Working Temperature / - 10° C + 130° C
- All models supplied with Sight Glasses
- All models supplied with Rotalock Valves
- All models supplied without Check valve
- We can manufacture products in different designs or with different volumes upon request..



Model	Volume (Lt)	Dimensions					Connection Sizes			Sight Glass	CE	
		Da (mm)	L (mm)	Sg1 (mm)	Sg2 (mm)	Fc (mm)	Inlet (Inch)	Outlet (Inch)	Connection For Check Valve		PED 33 Bar	97/23/EC 45 Bar
OR-01	3,8	∅ 140	280	90	120	255	Rotalock Valve 3/8" SAE Flare	3/8" SAE Flare	SW36 with Swimming Ball	CAT I / A1	/	
OR-02	7,2	∅ 160	400	125	185	375						
OR-03	10,8	∅ 180	480	140	220	455						
OR-04	14,6	∅ 219	440	140	190	395						
OR-05	18,7		560	190	240	515						
OR-06	23,3	∅ 273	450	150	190	270						



### Product introduction ;

The function of a Conventional Oil Separator with Float Mechanism is to remove oil from the discharge gas and return it to the compressor crankcase in a proper and precise manner.

It helps maintain the oil level of the compressor crankcase and raises the efficiency of the system by preventing excessive oil circulation. These Oil Separators are suitable for low pressure oil management systems.

The oil separators are designed for scroll and reciprocating compressors. They are not suitable to use with screw compressors. Conventional Air Separators with Float Mechanism are products operating with a ball float.

The float mechanism of the oil separators, which is completely made of stainless and yellow material, operates with a very precise and sound needle valve system.

Type of Oil Separator should be selected according to the type of the compressor used. Oil Separators are installed vertically between compressors and condensers.

Conventional oil separators are quite easy-to-use products because they do not contain any replaceable part. They are more economic than oil separators of other types.

With proper selection, oil separation efficiency is typically 80%.

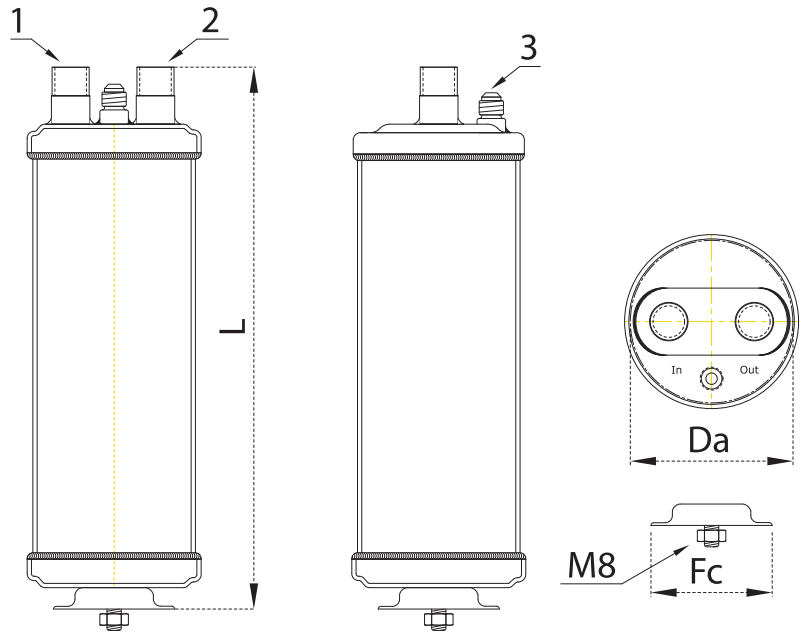
Oil separators are manufactured according to the requirements of 97/23/EC.

# CONVENTIONAL OIL SEPARATORS



Technical Data

- 1 Outlet Connection
- 2 Inlet Connection
- 3 Oil Return, 3/8 SAE Flare



Model	Volume (Lt)	Dimensions			Connection Sizes		Oil Addition (kg)	Max. Differential Pressure (bar)	TS(C)		CE	
		Da (mm)	L (mm)	Fc (mm)	Inlet / Outlet (Inch)	Oil Connection			Min.	Max.	PED 32 Bar	97/23/EC 45 Bar
OS-1/2	2,3	ø114	302	ø114 * M8	1/2" ODS	3/8" SAE Flare	0,4 / 0,5	21 bar	-10°	+130°	CAT I / A1	CAT I / A1
OS-5/8	372		5/8" ODS									
OS-3/4	372		3/4" ODS									
OS-7/8	380		7/8" ODS									
OS-1 1/8	3,5	445	1 1/8" ODS									
OS-1 3/8	4,7	ø140	400	ø135	1 3/8" ODS	0,6 / 0,7	21 bar	-10°	+130°	CAT II / A1	CAT II / A1	
OS-1 5/8	7,7	ø165	467	ø161	1 5/8" ODS							
OS-2 1/8	472	2 1/8" ODS										

Model	Capacity In KW Of Refrigeration At Nominal Evaporator Temperature				Maximum Discharge Volume (m3/hr)
	R 404A / 507		R 22		
	-40° C	5° C	-40° C	5° C	
OS-1/2	8,8	10,9	8,9	10,01	4,1
OS-5/8	13,7	17,1	13,8	15,8	6,4
OS-3/4	19,7	24,6	19,9	22,8	9,2
OS-7/8	26,8	33,4	27,1	31,0	12,6
OS-1 1/8	44,4	55,3	44,9	51,3	20,8
OS-1 3/8	86,2	99,1	87,4	91,9	31,0
OS-1 5/8	92,6	115,3	93,6	107,0	43,3
OS-2 1/8	96,8	120,5	97,8	111,8	45,3



### Product introduction ;

The function of a Helical Oil Separator is to efficiently remove oil from the discharge gas and return it to the compressor crankcase in a proper and precise manner.

This helps maintain the oil level of the compressor crankcase and raises the efficiency of the system by preventing excessive oil circulation.

Helical oil separators provide a higher level of efficiency compared to a conventional oil separator with float mechanism.

Helical oil separators can be used in a wide variety of applications.

Helical oil separators are intended for low pressure oil management systems, but they can also be used in high pressure oil management systems.

These oil separators are designed for use with scroll and reciprocating type compressors.

They are not suitable to use with screw compressors.

There is an oil reservoir in the lower chamber of the helical oil separators.

1 unit of 3/8" SAE rotalack valve is supplied as installed on each reservoir to facilitate easy control of the oil fill and drain.

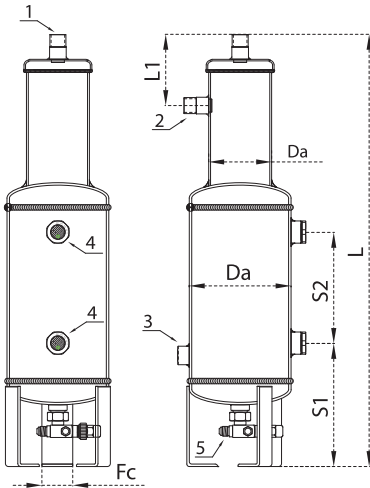
Oil reservoirs have 2 sight glasses for visual indication of the oil level. Sight glasses are designed considering minimum and maximum levels. Level indicator balls in the sight glass provide great convenience to see the oil level.

With proper selection, oil separation efficiency is typically 95%.

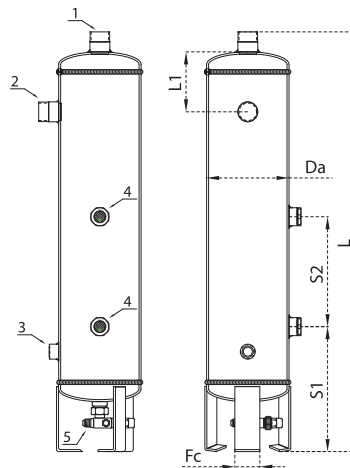
# HELICAL OIL SEPARATORS & RESERVOIRS



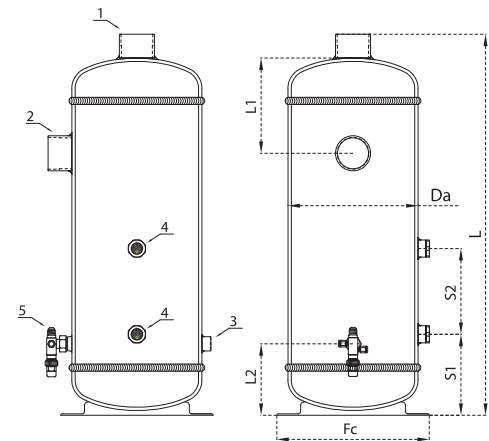
▶ Type (A)



▶ Type (B)



▶ Type (C)



- ▶ 1 Outlet Connection
- ▶ 2 Inlet Connection
- ▶ 3 Oil Level Sensor Connection
- ▶ 4 Sight Glass
- ▶ 5 Oil Return, Rotalack valve, 3/8 SAE Flare

Model	Volume (Lt)	Dimensions					Type	Connection Sizes				CE	
		Da (mm)	L (mm)	L1 (mm)	L2 (mm)	Fc (mm)		Inlet & Outlet (Inch)	Oil Reservoir Outlet (Inch)	sv (Inch)	Sight Glass	PED 33 Bar	97/23/EC 45 Bar
OS/OR/A-7/8	6,8	∅165	700	115	-	∅125	A	7/8" ODS	Rotalack Valve 3/8" SAE Flare	1/2" NPTF	SW66 with Swimming Ball	CAT II / A1	CAT II / A1
OS/OR/A-1 1/8		11/8" ODS											
OS/OR/B-1 3/8	13,2	∅165	840	160	-	∅249	B	13/8" ODS	Rotalack Valve 3/8" SAE Flare	1/2" NPTF	SW66 with Swimming Ball	CAT II / A1	CAT II / A1
OS/OR/B-1 5/8			845	165				15/8" ODS					
OS/OR/B-2 1/8			900	170				21/8" ODS					
OS/OR/C-2 1/8	21,5	∅219	700	200	120	∅249	C	21/8" ODS	Rotalack Valve 3/8" SAE Flare	1/2" NPTF	SW66 with Swimming Ball	CAT III / B+C1	CAT III / B+C1
OS/OR/C-2 5/8	38,3	∅273	800	250	150	25/8" ODS							
OS/OR/C-3 1/8	54,7	∅324	830	300	170	∅320		31/8" ODS					

Model	kW							Maximum Discharge Volume (m3/hr)
	Capacity In kW Of Refrigeration At Nominal Evaporator Temperature							
	R404A / 507		R22		R717			
	-40° C	5° C	-40° C	5° C	-40° C	5° C		
OS/OR/A-7/8	26,8	33,4	27,1	31,0	N/A	N/A	12,6	
OS/OR/A-1 1/8	44,4	55,3	44,9	51,3	N/A	N/A	20,8	
OS/OR/B-1 3/8	66,3	82,6	67,0	76,6	N/A	N/A	31,0	
OS/OR/B-1 5/8	92,6	115,3	93,6	107,0	94,03	125,38	43,3	
OS/OR/B-2 1/8	96,8	120,5	97,8	111,8	98,27	131,02	45,3	
OS/OR/C-2 1/8	205,8	236,7	208,8	219,5	214,40	257,28	74,1	
OS/OR/C-2 5/8	241,6	301,0	244,3	279,2	N/A	N/A	113,1	
OS/OR/C-3 1/8	342,4	426,6	346,2	395,7	N/A	N/A	160,2	

All data is for a 38° C condensing temperature, 18° C suction temperature and a connection size the same as the compressor discharge valve