

# Oil Filter Type PKW, CE



## Application

HPEOK Refrigeration's Oil Filter can be used in both Low and High Pressure Oil Management Systems, they can filtrate 99% of 3  $\mu$ m particle but keep enough flow rate to maintain low pressure drop. The unique drying features of the PKG model are particularly suited for systems using POE oil. This type of oil is more hydroscopic than mineral oil. This means that POE oil absorbs moisture at a much higher rate. Moisture in a refrigeration system can produce problems and/or harmful conditions.

One PKG-08 or PKG-120A model can be fitted in the oil return line between the Oil Separator and Oil Receiver, instead of fitting one Oil Strainer per Oil Level Regulator. These models will also remove more debris than traditional oil strainers.

## Main Feature

- High flow capacity with low pressure drop
- Particle retention down to 3 microns
- High flow capacity with low pressure drop
- Suitable replacement for individual Oil Strainers on oil return line

## Technical Specifications

Maximum working pressure = 507 PSI (35 Bar)  
Allowable operating temperature =  $-10^{\circ}\text{C} \sim +100^{\circ}\text{C}$   
For use with HFC and HCFC refrigerants and their associated oils, as well as other industrial fluids non-corrosive to steel and copper.

## Materials of Construction

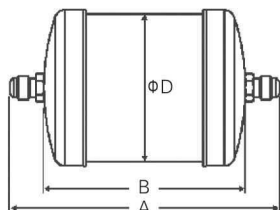
All pressure bearing components including shell, caps, and connection fittings are made of carbon steel. The internal spring is made of steel.

## Installation – Notes

- The Oil Filters must be installed in accordance with the flow direction arrow.
- Units should be replaced after a 15 PSI (1 Bar) pressure drop has been detected. Recommend to install valves on either side of the filter to ease replacement.
- For low pressure oil Management systems, oil filters should be located between oil separator and oil receiver not between the oil receiver and the oil level regulator.

## Specification

Part No	Connection (in)		refrigerating capacity(Kw)				Dimension(mm)		
	Solder	Flare	R404A/507	R22/R407C	R134a	R410A	A	B	$\Phi$ D
PKG-083		3/8	15.7	23.7	21.8	36.0	155	98	63.5
PKG-083S	3/8		19.8	29.8	27.4	45.2	146		
PKG-084		1/2	15.7	23.7	21.8	36.0	163		
PKG-084S	1/2		19.8	29.8	27.4	45.2	148		
PKG-085		5/8	19.8	29.8	27.4	45.2	146		



PKG-120

# Oil Filter for screw compressor

## Type PKOF, CE



### Technical data

- Max. Working pressure: 31 Bar(3.1 Mpa)
- Max. Operation temperature: 120°C
- Filter accuracy: 25  $\mu$  m
- For use with R134a, R22, R404A, R507A, R407C, mineral oil(MO), benzene synthetic oil(AB), polyol-ester refrigeration oil(POE)

### Specification

Part No.	Connection (in)		Sketch
	A(ODF)	B	
PKOF-03L	3/8"	1 1/4"-12UNF	
PKOF-04L	1/2"	1 1/4"-12UNF	
PKOF-05L	5/8"	1 1/4"-12UNF	
PKOF-07L	7/8"	1 1/4"-12UNF	

### PKOF-OOW Oil filter

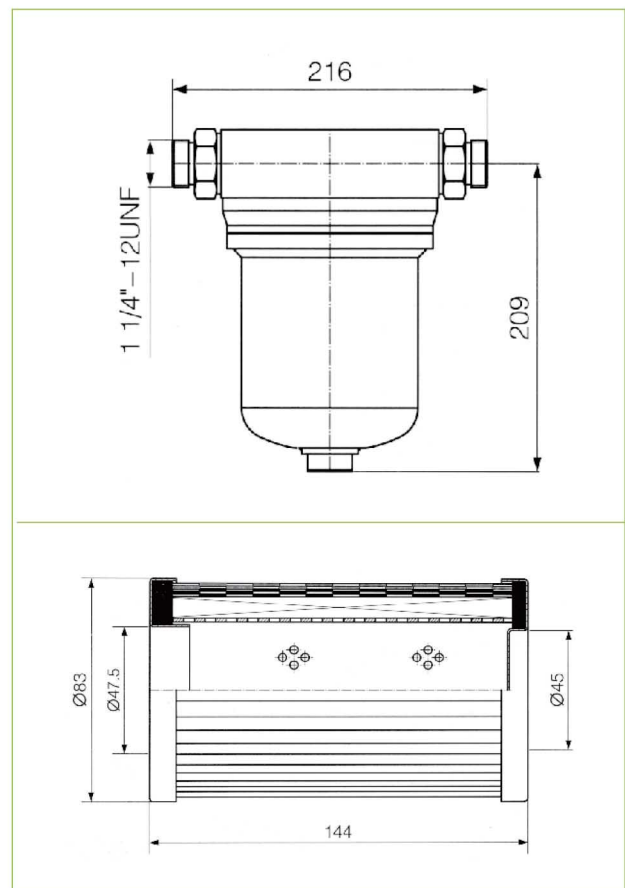
PKOF-OOW Oil filter coreThe core is balayeuse type, with filter area and minimum pressure drop, and it can be used to Bitzer HS.53, HS.64, HS.74, HS.85 series oil filter for screw compressor(O ring is standard configuration)

### Application

PKOF Oil filter is designed for the external oil line system for screw compressor, it has super filter capacity, can ensure the mineral oil(MO), benzene synthetic oil(AB), polyol-ester refrigeration oil (POE) return to compressor.

### Feature

- Aluminium shell: lightweight, anticorrosion
- High precision filter core provides maximal filter area, minimum pressure drop
- The filter core is assembled with "T" shape to the inlet and outlet, no need to disassemble the connection lines when replacing core.
- Having a quadrangle platform in the bottom for spanner operation, easy to replace core
- Inlet and Outlet: 1 1/4"-12UNF male screw, conveniently connect to 7/8" ODF, 5/8" ODF, 1/2" ODF, 3/8" ODF straight joint



# Coarse Oil Filter Type PKAO

## Applications

The coarse oil filter is installed to the outlet of HPKEO oil separator receiver.

It can filter the particles that larger than  $50\mu\text{m}$ , thus ensures the regular operation of the outer oil pipelines of oil separator receiver.

## Features

- Rustproof Aluminum flange
- Min. pressure drop when fully open
- Corrosion resistant epoxy powder paint finish, can be used in all environment.
- Sturdy steel shells for long life, solid copper or carbon steel connections.
- 1/4 NPT access hole.

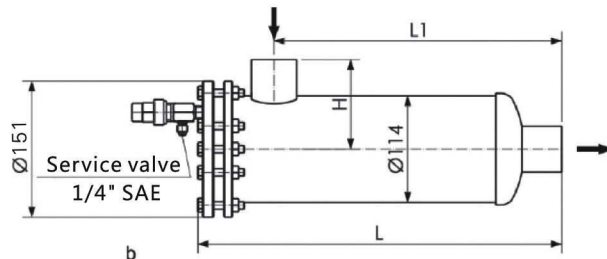
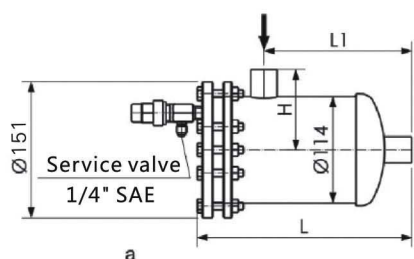
## Specification

- Designed pressure: 29Bar
- Filter accuracy:  $50\mu\text{m}$
- For use with R134a, R22, R407C, R404A, R507A, mineral refrigeration oil(MO), benzene synthetic refrigeration oil(AB), polyolester refrigeration oil(POE)



### Specification

Part No	Connection (mm)	L (mm)	L1 (mm)	H(mm)	Filter area (m <sup>2</sup> )	Sketch
PKAO-05	16	233	152	78	0.12	a
PKAO-07	22	238	157	82	0.12	a
PKAO-09	28	240	159	84	0.12	a
PKAO-11	35	388	306	87	0.24	b
PKAO-13	42	390	308	88	0.24	b
PKAO-17	54	396	314	92	0.24	b
PKAO-25	76	408	310	116	0.24	b



## PKAO Filter core

The core is balayouse design, it has large filter area and minimum pressure drop

