

OF7 Series Hand Held Portable Filter



Design

A low noise vane pump is directly flanged to the electrical motor and fixed to an aluminum housing with a foot bracket. The suction line has a cleanable wire screen strainer for pump protection. An AC motor is standard, DC optional.

Features

The OF7 is ideal for maintaining construction and agricultural machinery, off-highway vehicles and trucks. It is equally useful for servicing a wide variety of industrial equipment.

The standard OF7 incorporates a highly efficient Betamicon® spin-on filter element with a 10 µm absolute rating. Elements with other ratings are available. Other features of the unit include:

- Relief valve in housing.
- Static pressure gauge clogging indicator.
- Element easily replaced with strap wrench.

The OF7S90 high viscosity unit features a motor with higher power, a size 180 spin-on element as well as a special frame adapted to the larger component sizes.

Applications

The portable OF7 filtration unit is a compact filter/pump device used for transferring and filtering hydraulic fluids. It can be used for:

- Removing water from oil
- Changing oil in hydraulic systems.
- Filling hydraulic systems with filtered oil.
- Off-line filtration of hydraulic systems with inadequate filtering capacity.
- Flushing of small hydraulic systems

Multi-Pass Filtration Efficiency Ratings for Betamicon® Elements (to ISO 4572)

- Beta Ratios for differential pressures above the indicator trip pressure are shown to demonstrate particle removal at high differential pressures.
- Beta Ratios for many competitive elements drastically deteriorate at high differential pressure.

Betamicon® BN Beta Ratio Data

Betamicon Media	Absolute Rating	Terminal ΔP Across Filter Element
03 BN	$\beta_3 \geq 200$	43 psi
05 BN	$\beta_5 \geq 200$	43 psi
10 BN	$\beta_{10} \geq 200$	43 psi
20 BN	$\beta_{20} \geq 200$	43 psi

Technical Details

Recommended Fluid	Petroleum based oils. (Contact HYDAC for other applications.)
Nominal Flow	4 gpm / 15 l/min
Maximum Oil Temperature	180°F / 80°C
Viscosity Range OF7S10 OF7S90	20-1600 SUS / 5-350 cSt 70-4600 SUS / 15-1000cSt
Max. Operating Pressure	50 psi / 3.5 bar
Weight	27.5 lb / 12.5 kg
Electrical Motor	110 VAC (0.25 HP / 0.18 KW) or 24 VDC (0.27HP / 0.20KW)

Model Code

		OF7	S	10	P	1	K	1	B	10	E
Series	OF7	= Hand Held Portable Filter									
Type	S	= standard									
Code	10	= standard									
	90	= High Viscosity Option									
Seals	P	= Nitrile (NBR) (standard)									
Pump	1	= Vane Pump (standard)									
	2	= Size 0180 (OF7S90 option only)									
Electric Motor Voltage	K	= 110 VAC, 60 Hz (standard)									
	AE60	= 120V/60Hz/single phase (OF7S90 option only)									
	U	= 24 VDC									
	D	= pneumatic motor									
Spin-on Filter Element Size	1	= Size 0160									
	2	= Size 0180 (OF7S90 option only)									
Filter Element Material	B	= Betamicron® Low Collapse									
	P	= Paper									
	A	= Water Removal									
Filtration Rating (microns)	03	} BN Absolute Filtration									
	05										
	10										
	20										
	10	} P -Nominal Filtration									
	10	} W Water Removal									
Type of Clogging Indicator	E	= Pressure Gauge									

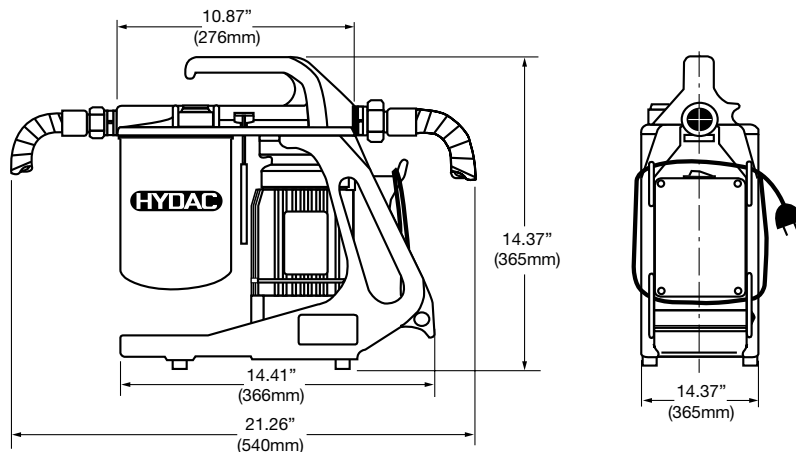
For replacement element part numbers, please see page 69 of this catalog.

Model Codes Containing RED are non-standard items – Minimum quantities and longer lead times may apply - Contact HYDAC for information and availability.

Replacement Element Model Codes

Micron Rating	160: Betamicron® (Part No.)	180: Betamicron® (Part No.)	Paper (Part No.)	Water Removal (Part No.)
3 µm	0160MA003BN (02059434)	0180MA003BN (02059438)	-	-
5 µm	0160MA005BN (02059435)	0180MA005BN (02059439)	-	-
10 µm	0160MA010BN (02059436)	0180MA010BN (02059440)	0160MA010P (02058116)	0160MA010A (02058771)
20 µm	0160MA020BN (02059437)	0180MA020BN (02059441)	-	-

Dimensions



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.