



TRident ENgineering

Total Oil Cleaning Solution

An ISO 9001 : 2015 Company

Absolute Mechanical Filter (AMF) Machine



MODEL
AMF - 25
AMF - 50
AMF - 100

APPLICATIONS

- Plastics Injection Moulding Machines.
- Hot Press in plywood Industries.
- Aluminum Extrusion & Die Casting Machines.
- Power Generation. Gas, Hydro & Thermal
- Steel Plant & CNC Machine Tools.
- Cement & Ceramics Industries
- Aviation, Railways & Automobiles.
- Hydraulic Press & Hot / Cold Steel Mills.
- Bearing Lubrication System.
- Earth Moving, Construction & Mining Equipments.
- Power Transmission Plant.

ADVANTAGES

- ✓ Increase Production And Reduce Rejection.
- ✓ Increase Life of pumps, Valves & Seals.
- ✓ Longer Oil Life.
- ✓ No Oil Leakages
- ✓ Longer Equipment Life.
- ✓ Low Operation and Maintenance Cost.

COMPARISONS



SPECIFICATION FOR SELECTION GUIDE

Model	AMF-25	AMF-50	AMF-100
Oil	ISO VG 32 to ISO VG 320		
Pump Flow in LPM	12-20 @ ISO VG 46	20-40 @ ISO VG 46	60-85 @ ISO VG 46
Motor	0.5 / 1.0 H.P. ; 415 VAC	2 / 3 H.P. ; 415 VAC	3 / 5 H.P. ; 415 VAC
Weight in Kgs	105	150	350
Dimension LxWxH	635 X 450 X 650 mm	920 X 520 X 1100 mm	1300 X 700 X 1360 mm
Primary Filtering by Bag Filter Housing : C. S. / S. S.			
Size	Dia 4" X 10" L - 1 No.	Dia 4" X 17" L - 1 No.	Dia 7" X 17" L - 1 No.
Filtration Rating	5 / 1 Micron		
Type of Bag Filter	Water Asorbent / P. E. / P. P.		
Fine Filtering by Multi Cartridge Filter Housing : C. S. / S. S.			
Size	Dia 2.5" X 10" L - 4 Nos.	Dia. 2.5" X 20" L - 4 Nos.	Dia. 2.5" X 20" L - 8 Nos.
Type of Cartridge	SOE Type with 222 O-Ring Beyonet Design		
Material of Cartridge	Resin Bonded Spun / Cellulose Melamine / PP Pleated		
Filtration Rating	1 / 0.45 / 0.20 Micron		

Hydraulic, Lubrication and Turbine Oil Conservation & Super Cleaning System.
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OIL CONDITION FOR AMF MACHINE

Temp : upto 70° c.

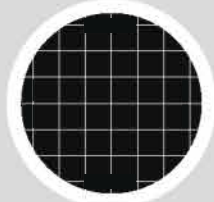
Viscosity below 320 CST Max.

Water content below 2000 PPM.

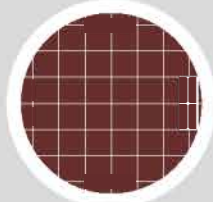
Mineral Base oil except IC Engine Oil.

An Absolute Mechanical filter (AMF) is a filter capable of cutting off 100% by weight of solid particles greater than a stated micron size. Absolute Rating is a term used to describe or define the degree of filtration of absolute filter. Various methods are used to determine absolute ratings which are not necessarily interchangeable. Generally absolute means 100% removal of solids above a specified micron size by use of absolute filter.

PHOTOGRAPHS OF MEMBRANE PATCHES FOR CONTAMINATION CONTROL



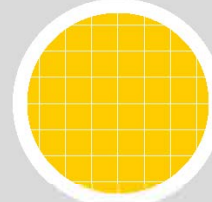
An example of very high contamination level which can critically damage hydraulic equipment (10 mg / 100 ml)
Above NAS 12



An example of contamination level which requires immediate cleaning (4 mg / 100 ml)
Above NAS 12



An example of contamination level to which the oil can be cleaned to (1 mg / 100 ml)
NAS 7-8-9



An example of contamination level which requires cleaning (2 mg / 100 ml)
NAS 10-11-12



An example of contamination level which the oil can be cleaned to (0.5 mg / 100 ml)
NAS - 6

NAS 1638 CONTAMINANTS SPECIFICATIONS in 100 ml OIL

Grade		00	0	1	2	3	4	5	6	7	8	9	10	11	12
Number& Sizes Of Contaminants	5~15 µm	125	250	500	1,000	2,000	4,000	8,000	16,000	32,000	64,000	128,000	256,000	512,000	1,024,000
	15~25 µm	22	44	89	178	356	712	1,425	2,850	5,700	11,400	22,800	45,600	91,200	182,400
	25~50 µm	4	8	16	32	63	126	253	506	1,012	2,025	4,050	8,100	16,200	32,400
	50~100 µm	1	2	3	6	11	22	45	90	180	360	720	1,440	2,880	5,760
	Upper 100 µm	0	0	1	1	2	4	8	16	32	64	128	256	512	1,024

Not existing

For Missile

For NC/MC

New Oil

RELATED PRODUCTS & CONSUMABLES

Bag Filter
Water Asorbent / P. E. / P. P.



Resin Bonded Spun Cellulose Melamine / PP Pleated



Contamination Checking Kit (CCK)



ICM / Particles Counter



DOL



0.8 Micron x 25 mm Dia Membranes



Moisture Sensor



Differential Pressure



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