

HYDAC INTERNATIONAL

PT. HYDAC Technology Indonesia

Local Competence

HYDAC Oil Purifier Systems Indonesia



The new FAM Economy Series – 45 l/min and 75 l/min
Made from HYDAC Technology in Indonesia with local competence and
Original HYDAC components.

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FluidAqua Mobil (Oil purifier)

FAM Economic Series

Made by Hydac Technology Indonesia

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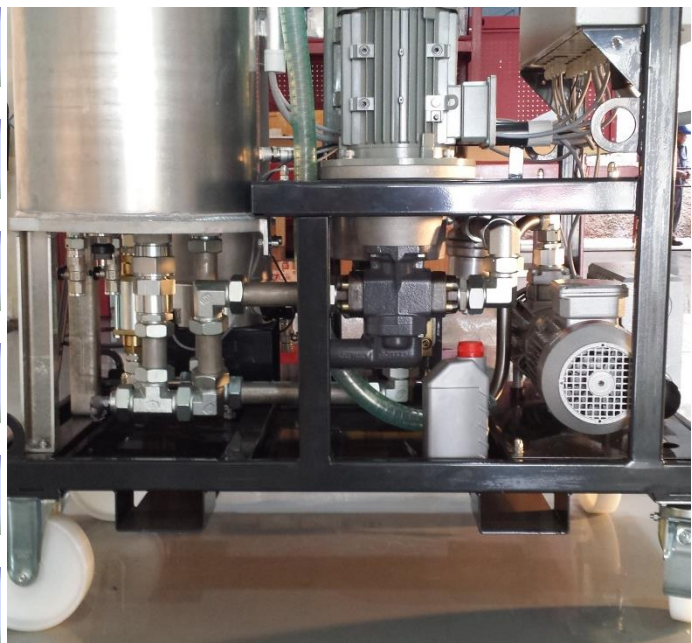
Local FAM Competence Center in Tangerang/Indonesia: Supply, Service and Application know how for FAM.

Remanufacturing of used units and maintenance on site.

FAM Competence Center produce the FAM Economic series.

Original Hydac-Germany design and Hydac Components used.

Rental Service on contract basis possibility.



Brand new FAM 75 Eco during final Quality Inspection in PT Hydac Technology Indonesia

German Design, Components, Quality - standards & Local Competence



Sample FAM 60 before



and after Remanufacturing in PT Hydac Indonesia.

Ready for Shipment

Hydraulic Oil and Lubrication Oil often get contaminated with water and gas, the water can appear as solved water or as emulated (free Water) additionally with other solid contamination the system can get a heavy damage. The change of fluid is expensive and results a stop of production.

HYDAC developed a unit (FAM) to dewater, degas and clean the fluid. After the treatment the fluid is full reusable for long time. The water content is always shown on a display measured by an integrated aqua sensor. In addition we can also supply a contamination on line measure equipment. The FAM works with a vacuum pump and use a corrosion free vacuum chamber.

A suction filter protect the inlet pump and also a large Inline filter cleans the fluid before a discharging pump returns the fluid to the customers tank again.

The electronic switch the FAM automatically out as soon the required quality is achieved. An integrated (optional) heater brings the fluid to a lower viscosity if needed. (recommended for lube oil for gear boxes)

Technical details you will find in our brochure, or just ask our engineers.



- 1 E-Panel with Display and Operation field
- 2 Vacuum Vane Pump
- 3 Vacuum Chamber
- 4 Inline pressure Filter



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Hydac Technology Indonesia, Workshop (Above) Hydac Technology Indonesia Head Quarter (Below)

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FluidAqua Mobil FAM Economy Series

Actual Datasheet :
E7.654.1/03.14
 Please ask our
 Staff or
 Download from
 our homepage
www.hydac.co.id



Description

The FluidAqua Mobil FAM Economy series operates on the principle of vacuum dewatering to eliminate free and dissolved water as well as free and dissolved gases from hydraulic and lubrication fluids. Since it uses HYDAC offline filter element technology with its high contamination retention capacity and filtration efficiency, the unit is extremely economical. All units are equipped with an Aquator AS 1000 for continuous monitoring of the water content and control of the unit. An FCU 1000 (see Accessories) can be connected for temporary measurement of particle contamination. To increase the dewatering capacity, for high viscosity fluids or for low fluid temperatures, an integrated heater is provided. The Siemens 5T series of programmable logic control (PLC) in combination with a Siemens control panel guarantees simple and reliable operation in many languages.

Advantages

- Extremely low residual water levels, gas levels and particle contamination in the operating fluids have the following benefits:
- Longer oil change intervals
- Improved component service life
- Greater machine availability
- Reduction in the Lifecycle Cost (LCC)

Technical specifications

| | 400 | 750 |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Flow rate IN at 50000 ltr | ≈ 4500 l/min | ≈ 7500 l/min |
| Flow rate OUT at 50000 ltr | Max. ≈ 5400 l/min | Max. ≈ 90100 l/min |
| Permitted fluids** | <ul style="list-style-type: none"> Mineral oils (ISO grades) Gear oils to DIN 51524 (F1-F10) Combi-oils (ISO 68-150) Vegetable oils (HVO, HVO2) ISO-V fluids (not for pure phosphate ester for which EPDM seals are required) | |
| Sealing material | FKM (FFKM, Viton®) | |
| Filter size of the filter | OUF-80 | OUF-100 |
| Filter elements for the filter | MED400 | N100000 |
| 100 mesh | 0.2 µm | 0.2 µm |
| 400 mesh | 0.10 µm | 0.10 µm |
| 1100 mesh | 0.20 µm | 0.20 µm |
| Charging indicator | VM 2 C-D | VM 2 C-D |
| Purging line, vacuum pump | | Robur line vacuum pump |
| Overriding pressure (isolated)** | ≈ 1.5 ... 1.8 bar | |
| Permitted pressure at suction port (without bubble heater)** | -0.2 ... -1 bar | |
| Overriding viscosity range** | 15 ... 300 mm²/sec without bubble heater 15 ... 1100 mm²/sec with integrated heater | |
| Fluid temperature range** | 10 ... 80 °C | |
| Ambient temperature** | 10 ... 45 °C | |
| Storage temperature range** | 10 ... 45 °C | |
| Relative humidity (ambient)** | Max. 90 %, non-condensing | |
| Electrical power consumption † | | |
| without bubble heater | ≈ 4.5 kW | ≈ 5.5 kW |
| with bubble heater | ≈ 11.25 kW | ≈ 20.3 kW |
| Heating output (optional) | ≈ 6.75 kW | ≈ 18 kW |
| Protection class | IP 54 | IP 55 |
| Length of electric cable (plug) | 10 m / CEE (depending on the nominal voltage, see model code) | |
| Length of hose | 2 m (mobile FAM only) | |
| Material of hose | see model code | |
| Connection thread(s) | see Connection summary table | |
| Weight (clean version) | ≈ 400 kg | ≈ 400 kg |
| Admissible residual water content | <ul style="list-style-type: none"> ≈ 100 ppm = hydraulic and heavy oils ≈ 50 ppm = turbine oil (ISO 68-150) ≈ 10 ppm = transformer oil (20) | |

** Minimum specification given equipment-dependent
 † For other cable, voltage or temperature ratings please contact us.
 ** Units not suitable for "Online" and "Clean" operation (parameter in operation and connected to grid).

