

TUC Desktop Oil Filter Unit

● Description

TUC desktop oil filter is a fixed small-scale precision oil purification equipment. The whole machine has a compact desktop frame, which can be placed on the machine table and fixed by a small hydraulic station. It adopts 380V three-phase power supply, focusing on small lubrication, online bypass filtration and offline circulation purification of hydraulic system, filtering solid impurities in hydraulic oil and lubricating oil without destroying the original performance of oil products.

● Core Structure

It adopts two-stage filtration system of rough filtration and fine filtration, and the fineness of filter element is 3 ~ 30 μm ; Equipped with low-noise gear pump, pressure gauge, built-in overflow valve and motor overheating protection. Quick opening filter cartridge structure, no need for special tools to replace filter element, with transparent oil pipe, intuitive observation of oil cleanliness.

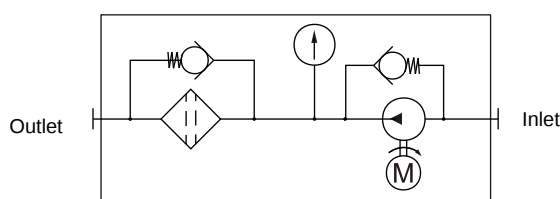
● Features

1. It features a compact desktop design, occupying little space and not requiring use of workshop passages, allowing for flexible placement and installation.
2. It operates on a three-phase 380V power supply, with simple wiring, making it suitable for use with small devices such as machine tools and testing benches.
3. It employs two-stage filtration: a pre-filter captures large particles to effectively protect the oil pump, while a fine filter improves the cleanliness of the oil.
4. It includes multiple safety features, such as automatic pressure release in case of overpressure and power shutdown when the motor overheats, ensuring stable operation and continuous use.
5. This device can be used for multiple purposes: it enables continuous online filtration, extraction of oil from tanks, addition of new oil, and cleaning of pipelines. Maintenance is straightforward, as the filter cartridges can be easily removed and replaced, saving time and effort during routine inspections.

● Application Scenarios

Low-flow oil supply systems such as CNC machining machines, grinders, small hydraulic pump stations, lubrication testing benches, and small injection molding equipment help to continuously purify the circulating oil, thereby reducing wear on oil pumps, hydraulic valves, and cylinders and extending the service life of the equipment's components.

● Oil Circuit Diagram



●Order Selection Table

TUC - 100 - F - 10

Device model

TUC: Desktop Oil Filter Unit

Flow rate (L/min)

40 63 100

Filter element material

F: Glass fiber
W: Stainless steel wire mesh

Filter fineness(μm)

3 5 10 20

● Technical Parameters

Model	Flow rate (L/min)	Filtr.(μm)	Initial P (MPa)	Power of motor (Kw)	Voltage (V)	Fine Element
TUC 40	40	3	< 0.02	0.75	AC:380	1300R ON
TUC 63	63	5		1.1		
TUC 100	100	10		1.5		

● Overall Dimensions

