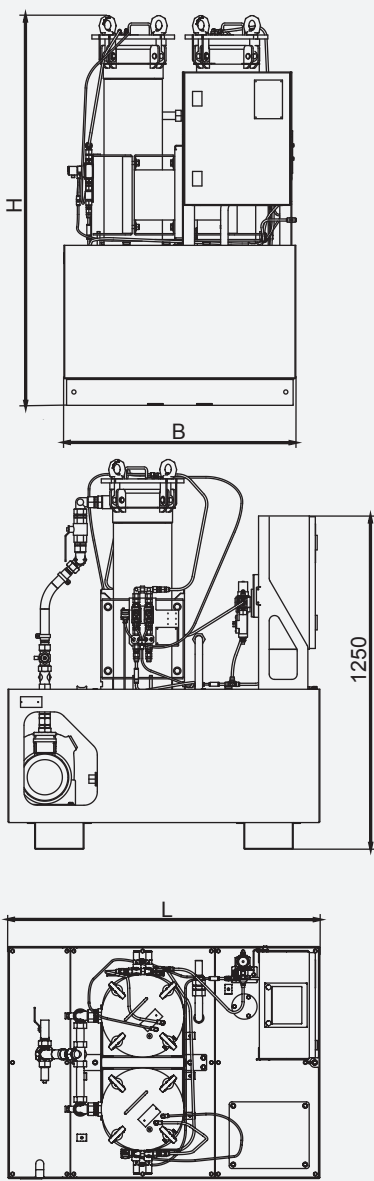
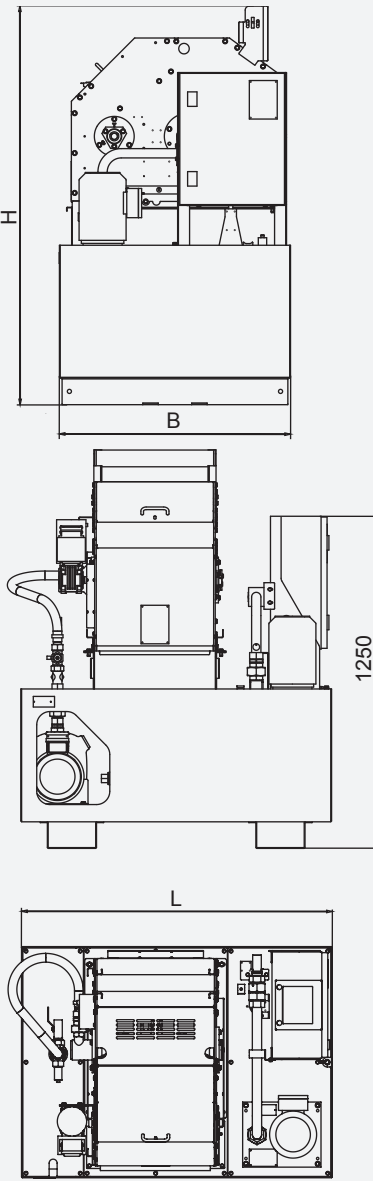


Dimensions and technical data

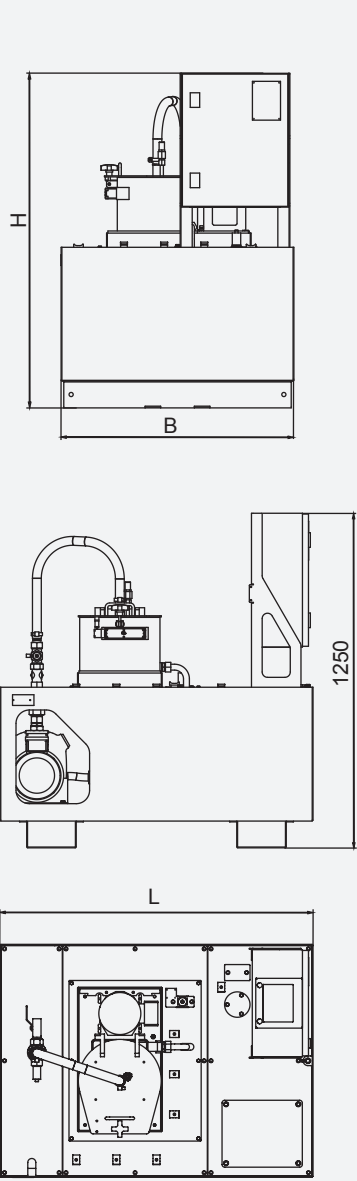
ByPass-U



ByPass-K



ByPass-Z



	ByPass U	ByPass K	ByPass Z
Max. flow rate	50 l/min	50 l/min	35 l/min at 1 cSt 20 l/min at 21 cSt
Min. grade of filtration	10 to 70 µm (absolute)	20 µm	1 µm
Power supply	400 V 50 Hz	400 V 50 Hz	400 V 50 Hz
Tank capacity	—	300 l	—
Dimensions (LxWxH)	1170 x 870 x 1462 mm	1170 x 870 x 1500 mm	1170 x 870 x 1250 mm



Properties

Compact and mobile installation
Autonomous control

Standardised and proven assemblies
Various filter principles
Filtration of ultra-fine particles
Filter principles with easy handling

Benefits

Process and location-independent adaptation
- Independent operation of the system, even on weekends
- No signal exchange with the existing system required
Rapid availability and high process reliability
Universally usable
Extension of the cooling lubricant service life and prevention of concentration
Low maintenance costs

Areas of application

KNOLL ByPass bath maintenance filters are filter systems for improving the quality of cooling lubricants. They are used to remove ultra-fine particles and foreign matter from the main filter system in the bypass flow.

- Possible areas of application are
- Individual or central systems with backwash filters
 - Machining of cast iron or carbide
 - Processing of silicon, ceramics or graphite
 - Grinding applications
 - Weekend circulation

Equipment



- ByPass U
- Lifting pump
 - Filter bowls
 - Filter insert (original equipment)
 - Manual aeration/venting



- ByPass K
- Lifting pump
 - Compact filter
 - Filter fleece (original equipment)
 - Fleece shortage warning
 - Return pump
 - Buffer tank
 - Control unit



- ByPass Z
- Lifting pump
 - Centrifuge
 - Catch pan
 - Control unit

Description

ByPass-U

1. The lifting pump conveys the dirty cooling lubricant into the filter bowl.
2. The liquid flows through the filter element, which retains dirt particles.
3. The cleaned cooling lubricant flows back into the main filter system.

ByPass K

1. The lifting pump conveys the dirty cooling lubricant into the intake box of the filter.
2. The filter fleece retains dirt particles as they flow through.
3. The return pump returns the cleaned cooling lubricant from the buffer tank to the main filter system.

ByPass Z

1. The lifting pump conveys the dirty cooling lubricant into the centrifuge drum.
2. Dirt particles are separated on the drum wall by the centrifugal forces.
3. The cleaned cooling lubricant passes through a peeling tube into the catch pan.
4. The lifting pump returns the cleaned cooling lubricant to the main filter system via a switch valve.