

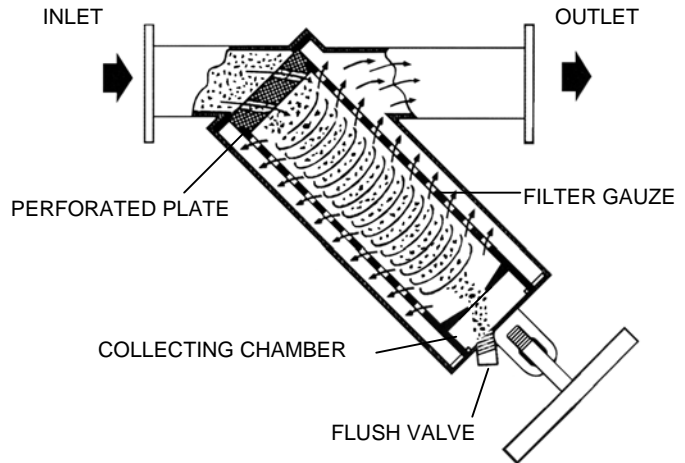
Instruction Manual

Circukon® Filter Series 8000

UDI®

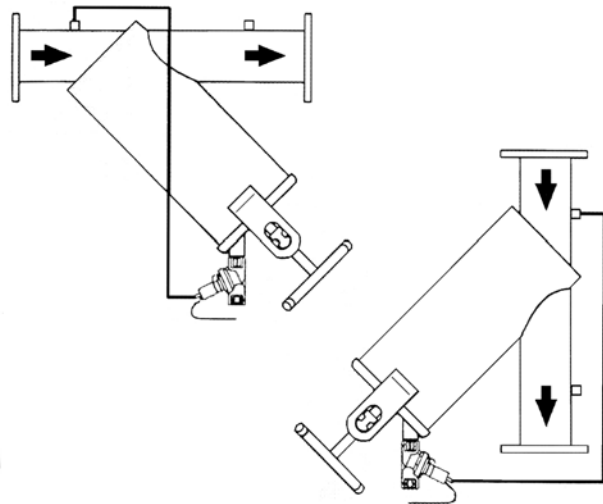
General instructions:

This filter has been designed and made to meet the highest requirements as to quality and finish. The uniqueness of this filter resides in the fact that the filter element is constantly cleaning itself, the deposit being collected in a built-in chamber. The collecting chamber can be emptied during operation by automatic activation of the flush valve.



Working:

The drawing shows the principle of operation of the UDI® circukon® filter. The water passes a perforated plate with 4 obliquely drilled-in holes. This results in a circular water movement which brings about a constant cleaning of the filter gauze. Impurities are carried in the direction of the flush valve. For this reason the filter body must be installed pointing downwards. The collected dirt can be discharged through a 1" – manual or automatic – drain valve.



Filter body position and direction of flow

Installation:

When installing the filter, pay particular attention to the correct direction of the water flow (inlet/outlet) as indicated by the arrow on the filter. The filter body points downwards; if this position is not possible, the filter body may be placed at an angle of up to 45°. The flush valve must be located on the underside of the filter.

If there is a risk of water flowing back, install a quick-acting (mechanical) check valve. A pressure relief valve must be installed before the filter if the pressure is not sufficiently under control.

When installing more than one filter, allow enough room between the units for easier maintenance.

The maximum working pressure is up to 8 bar. The filter is designed to withstand a maximum pressure of 10 bar.



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Flow-rate adjustment:

The holes in the whirl plate can be closed by inserting rubber plugs. The table below shows the recommended number of openings at different flow rates. The table is based on a differential pressure within the ideal working range of 0.25-0.5 bar.

Operation:

Optimal filtration is achieved at the proper flow velocity when the differential pressure between inlet and outlet is 0.25-0.5 bar. Measure the differential pressure across the filter during operation by inserting a pressure gauge (with needle) into the pressure-measuring points (18) in the inlet and outlet.

If the differential pressure is too low, close off another hole in the whirl plate with the rubber plug supplied.

Do not open the cover and do not tighten it while the filter is in operation or under pressure.

Flushing:

Draining off has to take place at regular intervals as determined by the working conditions and water quality.

Draining off can be achieved in 3 ways:

1. Manually: by opening the valve (09).
2. Automatically: using a timer. In this case a hydraulic or electric valve instead of a manual valve is to be mounted. The connection of the operating pressure to the valve must be located before the filter. Adjust the flushing program according to the recommended time intervals:
 - flushing time: 10-25 seconds.
 - flushing intervals: 30-120 minutes
3. Continuously: by connecting (Ø 10-20mm) hose to the valve. The hose must be straight, not rolled up or twisted. If dirt tends to accumulate, shorten the hose.

If quantities of residue are too large, shorten the time intervals between flushing operations.

Check to ensure the flushing operation is working properly by activating it manually.

Type	Unit	8015F	8020F	8030F	8040F	8060F
Connection	Inch	1.5"	2"	3"	4"	6"
Capacity	m ³ /h	4.5-13	9-25	16.5-45	27-75	55-150
Number of holes	2	4.5-7	9-13	16.5-24	27-40	55-80
	3	7-10	13-19	24-35	40-58	80-115
	4	9-13	18-25	32-45	53-75	106-150



2



3



4

Number of holes in whirl plate



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Periodic cleaning:

Check and clean the filter element (06) every 2-3 weeks, at the end of the season or when soiled due to improper control.

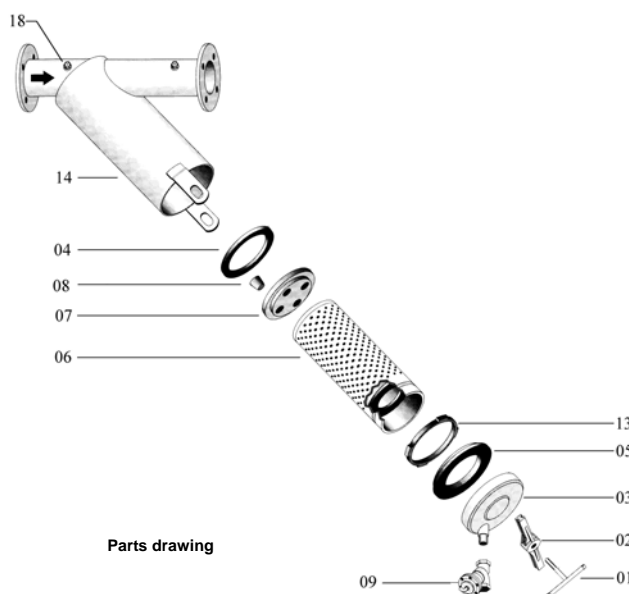
Stop the flow to the filter.

Open the flush valve (09) by hand to let the pressure escape and drain the filter.

Carefully remove the cover (03), the filter element (06) and the inner rubber (04).

Thoroughly clean the filter and the filter element with clean water and a brush to remove particles (NEVER USE A STEEL WIRE BRUSH!).

Check to ensure the filter element is intact and not damaged.



Parts drawing

Assembly:

Place the whirl plate (07) in its position on the element. Close off the correct number of holes in the whirl plate.

Place the inner rubber (04) on the filter element on the side of the whirl plate.

For models 8015 (1.5"), 8020 (2"):

1. Place the cover rubber (05) at the other end of the filter element (06).
2. Carefully insert the filter element into the housing (14) and fit the cover rubber (05) snugly onto the filter body.

For models 8030 (3"), 8040 (4"), 8060 (6"):

1. Place the centring ring (13) in its groove.
2. Carefully insert the filter element (06) with the ring into the filter body (14), turn carefully until the centring ring is under a lip and place the cover rubber (05) properly on the filter body.

Place the cover (03).

Check whether the flush valve (09) has been placed correctly at the lowest point.

Place the handle + tightening bracket (01+02) and tighten properly or place the bolts and tighten them crossways.

Notes:

If the filter is getting clogged too often, check the draining system and/or close off an opening in the whirl plate.

It is possible to drain off using several filters simultaneously.

The capacity is not affected by draining off.

Do not backwash - the gauze in the element will then be torn!

If the dirt particles cannot be removed from the element with a hair-fibre brush, dip the element into an acid/alkaline solution. Wait a few minutes for the solution to have its effect and then thoroughly clean the element.

Maintenance:

Each filter comes with these maintenance, installation and operating instructions. Check the element every 2-3 weeks for damage; if damaged, replace it immediately. Apply a film of grease on the thread of the spindle of the handle (01) or on the bolts. Any damage to the protective coating must be repaired immediately. Before applying the protective paint, the damaged spot must be cleaned thoroughly using a steel wire brush.

Parts drawing:

When ordering, state the number of microns.

Model 8060 (6") is provided with a bolted cover.

In view of ongoing improvements, we reserve the right to change specifications without prior notice.

