CJC™ Filter Separator P1 27/-

Removal of water, particles, oil ageing products and acid compounds from oils

Product Sheet

APPLICATION

The **CJC™ Filter Separator P1 27/-** is an offline filter which due to the unique combination of filter material and filtration type simultaneously removes with high efficiency large amounts of water, particles, oil degradation products (oxidation products, varnish, sludge etc.) and acid compounds from the oil.

Typical applications with high water ingress e. g.:

- Lubrication oil *(paper machines, turbines, thrusters, rolling mills etc.)*
- Hydraulic oil *(presses, machine tools, mobile hydraulic etc.)*

ADVANTAGES

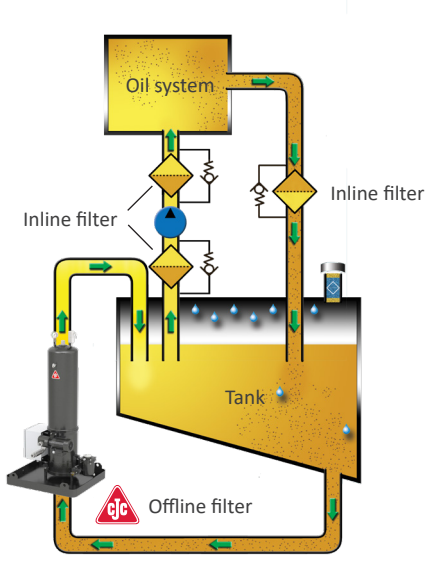
- longer lifetime for oil and components
- less oil-related, expensive machine failures
- simultaneous removal of large amounts of free water as well as particles, oil ageing products and acid compounds
- high filter efficiency by continuous fine and depth filtration combined with coalescing filtration, independent from the operation of the machine
- constantly high oil cleanliness
- longer service life of the expensive inline filters
- optimum filtration performance by specifically dimensioned pump

DEPTH FILTRATION

The CJC™ Fine Filter Insert specially developed for CJC™ Filter Separators is a depth filter which enables a long contact time between filter material and oil, providing an exceptionally high filter efficiency and dirt holding capacity. Contaminants are permanently retained in the depth of the filter material. Simultaneously, the filter material coalesces finest water droplets, which are separated from the oil in a subsequent process in a discharge area.

OFFLINE FILTRATION PRINCIPLE

Due to the independent circuit offline filtration offers an optimum in the adjustment of pump flow to operating fluid. The CJC™ Filter Separator draws the oil from the lowest point of the system tank, meaning that also sediments are filtered out. The cleaned oil returns to the system tank near the system pump.
NOTE: Clean oil is able to dissolve already deposited particles and residues from the components and tank walls and to hold them in suspension, finally cleaning the whole oil system.



CJC™ Filter Separator P1 27/81

TECHNICAL DATA

CJC™ Filter Separator P1		27/54	27/81	27/108
Oil volume, exemplary dimensioning	l	5,000	7,000	10,000
Design temperature	°C	80		
Material filter housing		stainless steel or steel		
Pump flow	l/h	application-oriented, max. 1,000		
Power consumption, approx.	kW	0.12–0.75		
Design pressure	bar	2		
Filter inserts	pc.	2	3	4
Filtration degree	µm	3 down to 1 micron		
Dirt holding capacity, approx.	kg	4	6	8
Water separation		automatic		

Equipment

Standard:
- Pump with motor
- Electrical control
- Automatic bleeding and venting valve for quick filter insert replacement
- Pressure switch for monitoring the degree of saturation of filter inserts
- Non-return valve to avoid return flow
- Base plate
- Sampling point

Optional:
- Leakage sensor
- Divided filter dome
- Preheater
- Manual water separation
- Design for higher fluid temperatures and pressures
- Filter housing according to ASME, w/ or w/o U-stamp *(see CJC™ Filter Separator P4)*

Certification on request
- DNV-GL
- Bureau Veritas
- ABS

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COMPONENTS

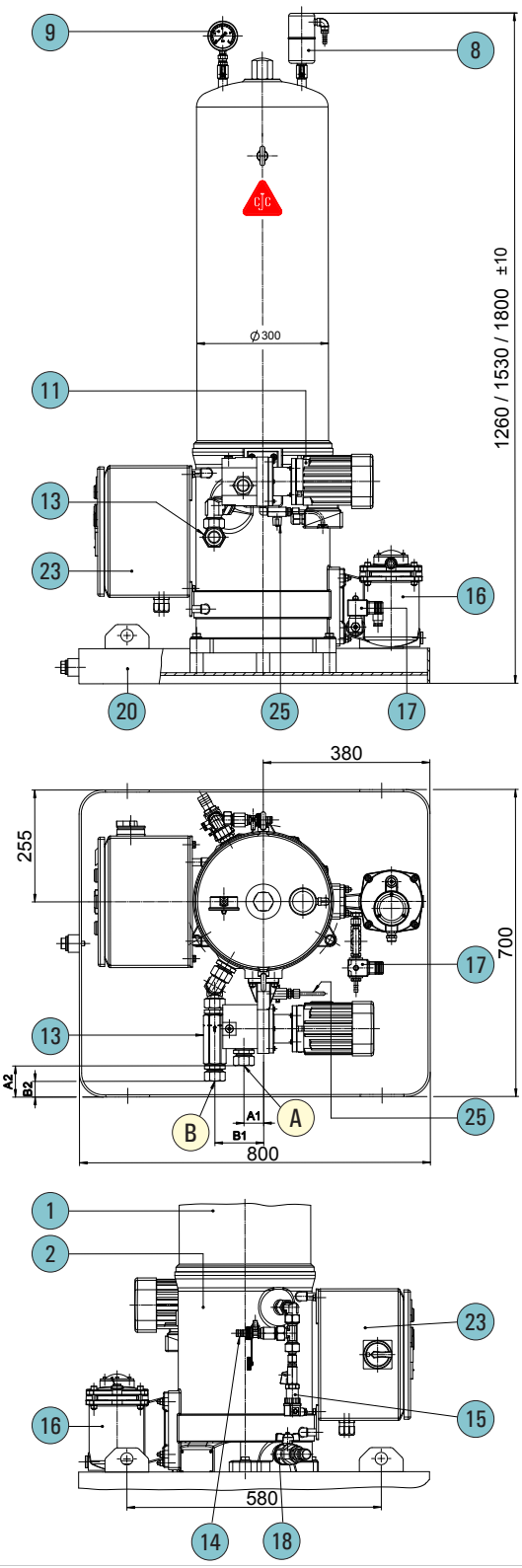
Item	Part
1	Filter dome
2	Filter base
8	Automatic bleeding and venting valve
9	Pressure gauge
11	Pump with motor
13	Non-return valve
14	Drain valve
15	Pressure switch
16	Water separator
17	Solenoid valve (water outlet)
18	Complete drain
20	Base plate
23	Electrical control
25	Sampling point
31	Sensor (max. water level)
32	Sensor (min. water level)
A	Suction pipe Tube AD 18 - AD 28
B	Filter outlet Tube AD 22 - AD 28

DIMENSIONS

Details see drawing no. ZUB11-009-2

Subject to technical changes.

Required dismantling height: 580 / 850 / 1120



Dimensions in mm

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