



Product Sheet

APPLICATION

The **CJC® Key Filter** is an offline oil filtration solution, used for maintenance of oils for hydraulics and lubrication, **with improved performance even in highly aerated oils**. The CJC® Key Filter is ideal for installation on **gearboxes, hydraulic pitch systems and main bearings**. CJC® Key Filter is a depth filter and is vital for removal of particles, varnish and moisture.

BENEFITS

- Fast and easy filter insert change
- Ideal for highly aerated oil
- Light weight solution
- Increased equipment reliability & uptime
- Increased component and oil lifetime
- Reduced maintenance costs
- Reduced breakdowns
- **Less waste oil - reduced carbon footprint**

FUNCTION


The offline filter pump draws oil from the lowest point on the gearbox or system reservoir and returns the clean & dry oil to the reservoir after being cleaned in the depth filter media of the CJC® Key Filter insert, KFi. The CJC® Key Filter offers fast draining, easy opening and a simple design philosophy and there are no loose parts to be lost. The material requires no surface treatment, and has a very high corrosion resistance. The filter also has an integrated backpressure and in combination with the internal continuous air bleed, no venting is required after start-up. The filter has a superior dirt capacity and improved efficiency. All functions have a positive effect on the equipment lifetime and on O&M costs.

FILTER PUMP

The filter pump is a CJC® Gear Wheel Pump. The electric motor can be supplied for all standard AC three phase voltages.

FILTER INSERT

The CJC® Key Filter insert (KFi) consist of several discs bonded together, based on a new special design with a unique pattern.

The material is made of **100% natural cellulose fibers from sustainable resources**. 

IDENTIFICATION

To order the CJC® Key Filter and CJC® Key Filter Insert, KFi, please use:

Article Nos:

Key Filter, pump 45 ltr: FA7617191-1
 Key Filter, pump 120 ltr: FA7617191-2
 Key Filter insert, KFi: PA5609518

FILTRATION ABILITY

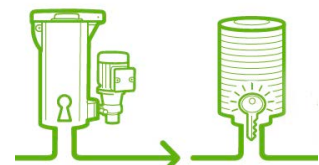
- **Particle Removal**
 CJC® Filter Inserts have the following filtration degree:
 - **3 µm absolute:**
98.7% of all solid particles > 3 µm
 - **0.8 µm nominal:**
50% of all solid particles > 0.8 µm which are retained in each pass.**The dirt holding capacity:** 2 ltr. of evenly distributed solids.
- **Degradation Products**
 Oxidation products, resin/sludge, and varnish are retained by the cellulose material, which will retain 1.5 kg.
- **Water Removal**
 The water absorption potential is up to 50% (i.e. 1000 ml H₂O) of the total contaminant holding capacity.



*CJC® Key Filter
for wind turbine applications*

TECHNICAL DATA

| Wind Application | | Gear | Pitch |
|------------------------------------|----------------------|-----------|----------|
| Pump flow, per hour, (std.) @ 50Hz | ltr/gal | 45 / 12 | 120 / 32 |
| Pump type | | PV4-7 | PV4-18 |
| Pump inlet pressure, max. | bar/psi | 0.5 / 7 | |
| Power consumption, max. | kW | 0.18 | |
| Pressure over filter insert, max | bar/psi | 2.3 / 33 | |
| Oil temperature, max. | °C/°F | 85 / 185 | |
| CJC® Key Filter insert (KFi) | pcs. | 1 | |
| Dirt holding capacity, approx. | ltr/gal | 2 / 0.5 | |
| Water absorption capacity | ltr/gal | 1 / 0.25 | |
| Dry weight | kg/lb | 18 / 40 | |
| Operation weight, wet | kg/lb | 26.5 / 58 | |
| Design pressure | bar/psi | 7 / 101 | |
| Ambient temp. max | °C/°F | 40 / 104 | |
| Power supply | acc. to requirements | | |



*Your natural solution
Only one oil filter is as natural
as the energy you produce*



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