



Lube Oil Purifier 427

for 2- & 4-stroke diesel engines

Product Sheet

APPLICATION

CJC® Lube Oil Purifier 427 series is tailored for lube oil offline cleaning on large and medium speed 4-stroke and on low speed 2-stroke diesel engines.

BENEFITS

The CJC® Lube Oil Purifier is a compact unit prepared for easy installation on new-buildings and retrofitting in existing installations as well. As standard, the unit is supplied with a separate pump module controlled by the **CJC® Flow Drive** control system.

The oil filter system is installed offline, similar to, for example, a centrifuge, except all aspects of installing, operating and maintaining are much more simple. The pump module features installation of the filter unit in the purifier room while the pump module can easily be remotely located close to the lube oil tank.

The **CJC® Flow Drive¹⁾** features automatic adjustment of the cleaning capacity to ensure efficient and economic cleaning and maintenance of the main lubricating oil system.

Along with the *genuine* **CJC® Filter Inserts LOX, L04D or L04R**, the CJC® Flow Drive facilitates continuous and uncomplicated operation both when engine is running and when engine is stopped or in standby condition.

Extensive field trials have proved > 98% availability of the filter system and fulfilment of OEM and owners lube oil condition requirements

ROI POINTS

- Reduced engine SLOC [g/kWh]
- Energy savings in the range of 95% - 98% hold against traditional offline lube oil cleaning equipment
- 99% lube oil sludge reduction

BENEFITS

- Continuous cleaning 24/7/365
- Availability > 98%
- Easy to operate
- Uncomplicated maintenance
 - No uncontrolled lube oil waste to sludge

SIMPLICITY

- Mounted on drip pan with all controls
- Separate pump module
- No need for sludge system
- No need for pre-heater and pre-heater control equipment
- No need for treated water or pressurized service air

QUALIFICATIONS

- Fulfills relevant statutory rules along with class society regulations
- Verified and design approved by major class societies
- Validated by major engine makers

¹⁾ Patent pending



CJC® Lube Oil Purifier, 3x427



CJC® Lube Oil Purifier 427



The genuine CJC® Filter Inserts **LOX**



The genuine CJC® Filter Insert **L04D**



The genuine CJC® Filter Insert **L04R**

SPECIFICATIONS

CJC® Lube Oil Purifier 427

Ambient temperature, max.	°C/°F	45 / 113
Design temperature, filter	°C/°F	120 / 250
Design pressure, filter	bar/psi	7 / 102

APPLICABLE FILTER INSERTS

CJC® Filter Insert	Fuel type	Article no.
2 x LOX 27/27	All	PA5601315
L04D 27/27	MDO/MGO	PA5602320
2 x L04R 27/27	HFO	PA5602311



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CJC® LUBE OIL PURIFIER

- Continuous air bypass
- Sample point before filter
- Drain valve
- Pressure gauge
- 50/60 HZ, 3x380-480 VAC

CJC® FLOW DRIVE (CONTROL PANEL)

Standard features

- Mains supply disconnecter
- Local start/stop
- Local running indicator
- Filter Insert change indicator
- Pressure and temperature display
- Hour counter
- Automatic stop and alarm at high differential pressure

Optional features

- External run signal
- External common alarm
- Auto restart after power failure (black-out)
- External stop/emergency stop
- Drip pan with leak detection and control box bracket

DOCUMENTATION

Statement of Compliance document is standard

- Compliance w. IACS class rules and regulations, including requirements to materials certificate, Class II and III piping, SOLAS requirements, applied standards on steel and pipe work and welding and welding procedures accepted by Classification Societies

Class Approval on request

- Single unit approval certificate including materials certificates and inspection document endorsed by a Classification Society

SPECIFICATIONS & CAPACITIES

Size	Weight [kg] / [lb]	Recommended nominal pump flow (L/h)			Drawing number
		2-stroke on MDO/HFO Filter Insert LOX	4-stroke on MDO/MGO Filter Insert LO4D	4-stroke on HFO Filter Insert LO4R	
427/81	224/493	350-1050	750-1500	875-2000	9601360
427/108	266/585	NA	1200-2500	1500-3200	
2x427/81	490/643	850-2450	2200-4400	2500-4000	9601361
3x427/81	775/1700	1800-4500	4000-6000	3500-6000	9601362
3x427/108	920/2010	3500-5600	NA	5000-7000	

PUMP OPTIONS

x	Pump type	Flow (L/h)	Suction (DN)	Discharge (DN)	Drawing number
1	GR20-12L-4	485	½" BSP	½" BSP	FA5609521-x
2	GR20-20L-4	835	½" BSP	½" BSP	
3	GR25-25L-4	1085	¾" BSP	½" BSP	
4	GR25-30L-4	1360	¾" BSP	½" BSP	
5	GR32-35L-4	1600	DN32	DN25	
6	GR32-45L-4	1955	DN32	DN25	
7	GR25-25L-2	2200	¾" BSP	½" BSP	
8	GR25-30L-2	2750	¾" BSP	½" BSP	
9	GR32-35L-2	3245	DN32	DN25	
10	GR32-45L-2	3965	DN32	DN25	
11	GR32-55L-2	4325	DN32	DN25	
12	GR40-125L-4	4730	DN40	DN32	

Note: Larger pumps on request.

INSTALLATION PRINCIPLE

