

Oil Service Units

UMPCL 045 Lightline

With integrated particle monitor · Optionally with adjustable flow range 20 - 70 l/min / 5.3 - 18.5 gpm







UMPC 045 Lightline



Switching valve 1



Switching valve 2



Front panel of the UMPC 045 Lightline with adjustable flow range

Description

The UMPCL 045 Lightline is an oil service unit designed for filling and cleaning of hydraulic or lubrication systems and for transferring of fluids.

Its compact size and ergonomic design allow easy handling in minimal work spaces.

Protection of systems through ultra-fine filtration

The EXAPOR®MAX 2 ultra-fine filter element is the heart of the UMPCL 045. A high separation efficiency and a large dirt-holding capacity of the filter elements (up to 1980 g) make the UMPCL 045 an economical choice for our customers.

Monitored filtration

The unit is equipped with an oil cleanliness monitor. The OPCom particle sensor permanently monitors the current cleanliness class during the cleaning or filling process. The data stored in the internal memory can be transmitted to a computer.

Flexible and universal device

Optionally, the unit can be equipped with frequency converter and potentiometer for adjusting the flow rate in the range of 20 - 70 l/min / 5.3 -18.5 gpm. This additional feature makes the UMPCL 045 even more universal and extends its use to smaller and larger systems. The flow rate can be adapted to the actual need depending on the tank size and / or required speed of the filtration / oil transfer.

Switching valve 1 for changing operating modes

Installed in the pump block - to switch between two modes: "filtering" and "pumping without filtering".

Switching valve 2 for selecting the sampling point

Installed in the front panel - for cleanliness measurement: "behind filter" (e.g. when filling systems) or "before filter" (e.g. for tank cleaning).

www.argo-hytos.com Page 87

Characteristics

Nominal flow rate

up to 70 l/min / 18.5 gpm - see Ordering Code

Operating pressure

max. 7 bar / 101 psi

Viscosity range*

15 - 1100 mm²/s - continuous operation, flow 20 l/min / 5.3 gpm 15 - 600 mm²/s - continuous operation, flow 45 l/min / 11.9 gpm

15 - 400 mm²/s - continuous operation, flow 70 l/min / 18.5 gpm

Temperature range of fluids

0 °C ... +65 °C / +32 °F ... +149 °F (also see table Viscosity Range)

Ambient temperature range

0 °C ... +50 °C / +32 °F ... +122 °F

Pump design

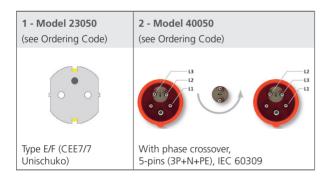
Internal gear pump

Electrical motor

3 ~ 400/460 V / 50/60 Hz, 1.1kW Protection type: IP 54

Electrical connection**

Cable length 6 m / 19.7 ft with the following electric plug:



Clogging indicator

optical clogging indication DG 042-04 (all types) $\Delta p = 3.5 \pm 0.5$ bar

Hydraulic connection

Suction side:

Hose DN 32, length 2.7 m / 8.9 ft with suction pipe

Suction strainer:

Screen element 280 µm, ordering code \$9.0417-13

Pressure side***:

Hose DN 25, length 2.7 m / 8.9 ft with pressure pipe

Permitted suction heights

max. 2 m (unfilled)

max. 6 m (in operating condition)

Hydraulic fluids

Mineral oil and biodegradable fluids (HEES and HETG, see info service sheet 00.20). Other fluids on request.

Weight

approx. 85 kg / 187.4 lbs

Operating and transport position

Operating position: upright

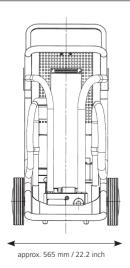
Transport position: upright or horizontal

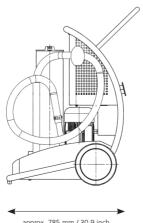
Accessories

Quick connection adapters for suction and pressure hose available on request

- An exact measurement of the oil cleanliness class is only possible within a viscosity range from 15 mm²/s to 300 mm²/s / 70 SUS to 1160 SUS
- ** For electric cable extension see Ordering Code. Model 12050 is delivered without electric plug or the plug version should be defined individually
- *** For pressure hose extension see Ordering Code

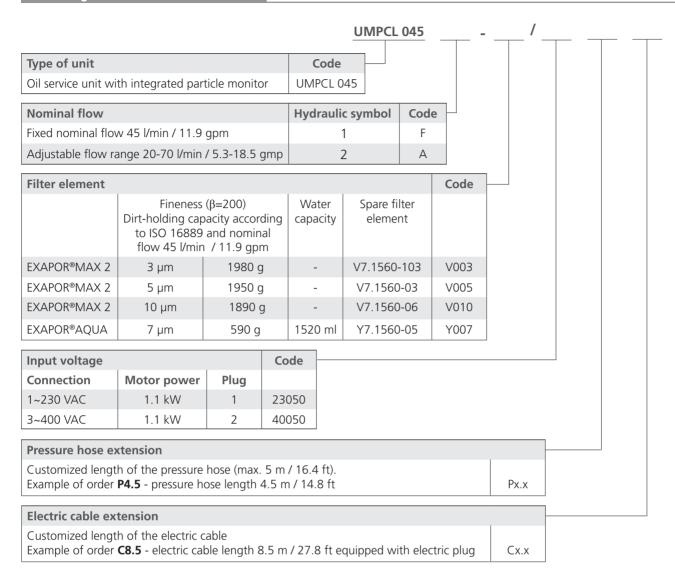
Dimensions





approx. 785 mm / 30.9 inch

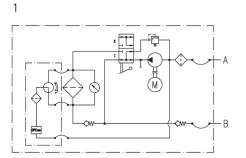
Page 88

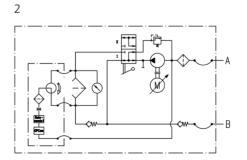


Order example:

UMPCL 045A-V003/23050C9.5 - oil service unit with integrated particle monitor, version with adjustable flow range 20 - 70 l/min / 5.3 - 18.5 gmp, filter element 3 μ m, input voltage $1\sim230$ VAC, standard suction and pressure hose, and customized length of electric cable 9.5 m / 31 ft

Hydraulic symbol





www.argo-hytos.com Page 89