

HYDAC INTERNATIONAL



FluidCarrier Compact FCC

Description

The FluidCarrier Compact is designed for carrying out maintenance work on machine tools with tank volumes of up to 200 l.

Special care must be taken to ensure at the time of the introduction of TPM (Total Productive Maintenance) that the filtered topping up of hydraulic and lubrication oils is guaranteed and that a mix-up between different types of oils is excluded.

The FCC offers the possibility of transport and of the filtered filling of topping-up quantities, in addition to measuring points for the connection of particle counters (FCU) for monitoring oil cleanliness. The integrated filter unit (OLF-Compact) can be used to clean smaller, off-line systems.

In addition, there is also the option of connecting a flow meter for documenting the quantity dispensed.

Advantages

- Easy, safe transport
⇒ 70 litre volume for filling small units, easy operation
- Filtration of filling fluid
⇒ via Olf-Compact ($\beta_2 > 1000$) resulting in fewer breakdowns caused by contamination in new oil
- Checking
⇒ FCU and flow meter optional, therefore documentation of flow or purity via maintenance
- Mobile offline filtration unit
⇒ Can also be used for offline filtration

Technical details

Filter element	DIMICRON (2, 5, 10, 20 µm absolute) AQUAMICRON (3, 20 µm absolute)
Flow rate	FCC 5/4: 4 l/min FCC 5/15: 15 l/min
Operating pressure	3.5 bar
Viscosity range	FCC 5/4: 15 to 7000 mm ² /s FCC 5/15: 15 to 1000 mm ² /s
Fluid temperature range	0 to 80°C
Ambient temperature range	0 to 40°C
Seals	NBR
IP class	IP 55 (without FCU)
Weight	≈ 60 kg (empty)
Tank volume	70 l
Length of hoses	2.3 m
Length of power cable	10 m

Model code

FCC **-5/15** **-S** **-N** **-N5DM002** **-BM /** **-K-FA1**

Basic model

FCC = Fluid Carrier Compact

Size & flow rate

5/4 = 4 l/min

5/15 = 15 l/min

Pump type

S = Vane pump

Voltage

L = 115V - 1Ph G = 440V - 3Ph

M = 230V - 1Ph* O = 460V - 3Ph

W = 230V - 3Ph* B = 480V - 3Ph

C = 380V - 3Ph S = 500V - 3Ph

N = 400V - 3Ph* P = 575V - 3Ph

R = 415V - 3Ph

X = Other voltages on request

M60 = Operation at 60Hz

* Standard in Europe according to CENELEC HD472 S1 at 50 Hz

Filter element

N 5 DM 002 = DIMICRON filtration rating 2 µm absolute

N 5 DM 005 = DIMICRON filtration rating 5 µm absolute

N 5 DM 010 = DIMICRON filtration rating 10 µm absolute

N 5 DM 020 = DIMICRON filtration rating 20 µm absolute

N 5 AM 002 = AQUAMICRON® filtration rating 4 µm absolute

N 5 AM 020 = AQUAMICRON® filtration rating 20 µm absolute

Z = Without filter element

Clogging indicator

BM = Differential pressure gauge, visual (VM2BM.1)

C = Differential pressure gauge, electrical (for versions FA1, FA2 and E) (VM2C.0)

Supplementary details

K = Flow meter

FA1 = On/ off switch with motor protection switch and switch-off when filter is clogged.

Requires neutral wire. For voltages up to max. 240V, 1Ph, or max. 415V, 3Ph.

Clogging indicator type C or D3 required.

FA2 = On/ off switch with motor protection switch and switch-off when filter is clogged.

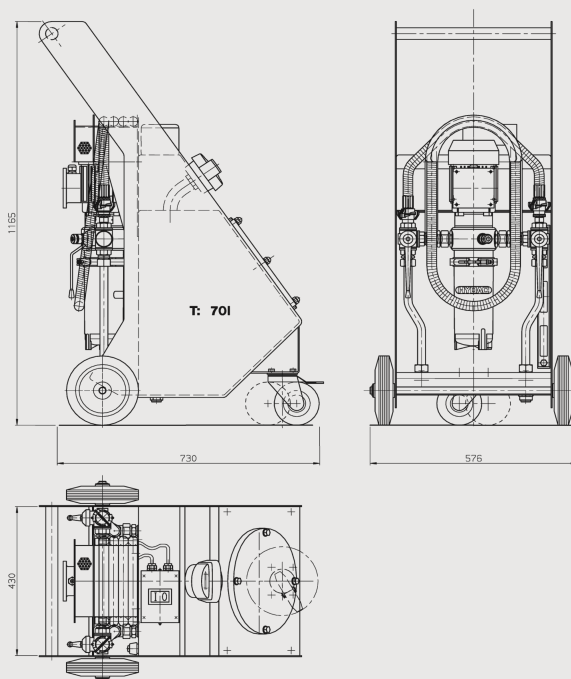
Does not require neutral line. All voltages. Clogging indicator type C required.

FCU* = Prepared for connection of FCU incl. mounting, measurement points and change-over valve

E* = El. control unit for controlling unit with FCU (includes options FA1 and FCU)

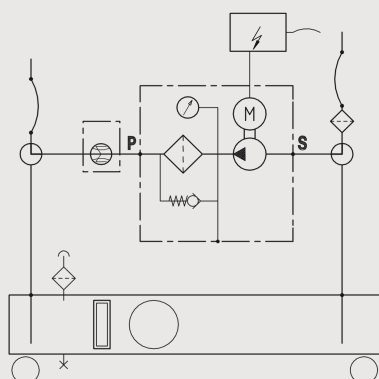
* suitable for FCU 2000 series, please order FCU separately, see FCU brochure

DIMENSIONS

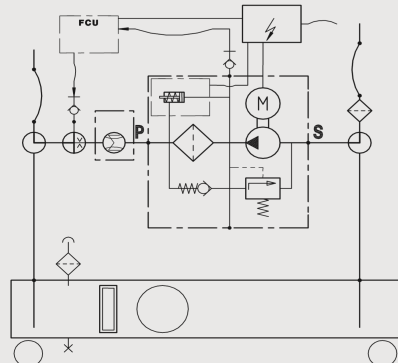


Hydraulic circuit diagram

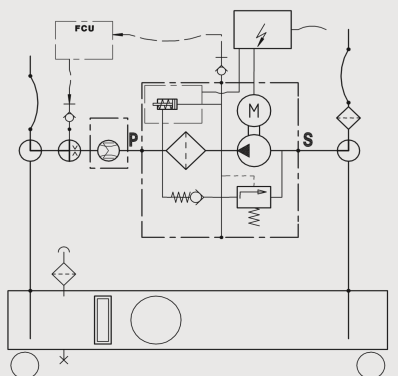
Standard version



Version with electrical control unit for operation with FCU

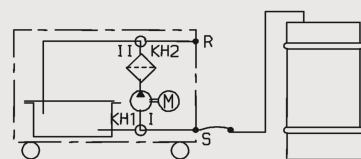


Equipped for connection of FCU: includes test points and change-over valve

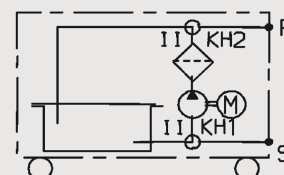


Operation modes

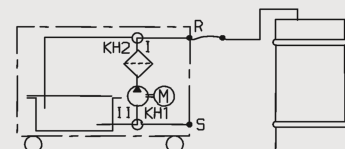
FCC - Transferring to on-board tank



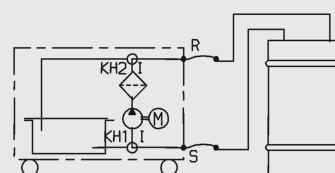
FCC - Filtration of on-board tank



FCC - Transferring to external tank



FCC - Offline filtration of external tank



Note

The information in this general brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

All technical details are subject to change.

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