

Hydrau**vision**



HydrauTool PC HYDAC FCU 1310 Particle counter

Technical Specification

Max. inlet pressure : -0,1 - 45 bar (without high-pressure adapter)
Max. inlet pressure : 15 - 345 bar (with high-pressure adapter)
Max. outlet pressure : 0 - 0,5 bar
Range input flow : 30 - 300 ml/min. (viscosity dependant)
Operational temperature : 0 to +45 °C
Hydraulic fluid : The FCU may only be used with mineral oils or mineral oil-based raffines.

Material of sealings : FPM
Fluid viscosity range : 10 to 350 mm²/s (cSt)
Hydr. fluid temperature range : 0 to +70 °C
Measured values for solid : ISO code / SAE class / NAS class
particle contamination

Measured values for fluid : - 25 to +100 °C
Temperature
Measurement range : Display ISO classes min. 9/8/7 ... max. ISO 25/24/23 Calibrated in the range ISO 13/11/10 - ISO 23/21/18
Accuracy : CS: ± 1/2 ISO-Code AS: ≤ ±3% over the entire measurement range
Service Display : Flow / Drive
Measuring time programmabl : 10 ... 300 seconds

Overall length : 410 mm (in open position)
Overall width : 450 mm (in open position)
Overall height : 430 mm (in open position)
Total weight excl. fluids : ≈ 13kg

Relative humidity : max. 90%, non-condensing
Power supply : 24VDC-4A for mobile or 90-240VAC from net
IP class : IP 50 (in Operation)
IP 67 (closed)

Detailed specifications : on request

Benefits

- Calibrated particle counter
- Integrated pump for the automatic control of oil flow

Scope of Supply

Included:

- Suction hose DN4, open-end, color: clear-transparent, Length = 0.3 m
- Inlet high-pressure hose DN4 with screw connection for test point 1620, color: black, Length = 2 m
- Outlet return hose DN7, open-end, color: clear-transparent, Length = 1 m
- User manual

Excluded:

- Transport

Above mentioned items can be included on request.

All performance data and specifications mentioned in this document are guidelines. Due to operational and environmental influences performance data may vary. All products are subject to continuous review. HydrauVision reserves the right to change specification without prior notice.

Revision : 00
Date : 10-10-2018



The HydrauTool PC HYDAC FCU 1310 is a portable service unit for hydraulic systems for intermittent measurement of the particulate contamination, the moisture content in % saturation and the temperature of the fluid.

The integral pump and hoses supplied can be used on:

- Control circuits
- Pressure circuits
- non-pressurized tanks

Applications for the FCU include the servicing and repair of mobile hydraulic systems.

The internal data memory enables measurements to be recorded together with a time-stamp. The USB interface can be used to copy all measurements to a USB memory stick, for subsequent evaluation on a PC using Excel or the fluid monitoring software FluMoS Light.

Applicable for hydraulic fluids (up to ISO VG 68)
10 ... 350 mm²/s /

Automatic measurement and display of cleanliness ratings in accordance with:

- ISO 4406:1987; NAS 1638
- ISO 4406:1999; SAE AS 4059 (D)

Measurement accuracy +/- 1/2 ISO code in the calibrated range.

