# (HYDAC) INTERNATIONAL



# ContaminationTest Unit CTU 1000 series

## **Description**

The HYDAC ContaminationTest Unit CTU 1000 series is used to determine the technical cleanliness of lightly contaminated components.

The reasons behind this are the ever increasing demands made on life expectancy of individual components and assemblies which has meant growing demands for technical cleanliness of components and systems. Starting with production, assembly and storage, this extends right through to operation of the complete system.

Analysing the type, size and quantity of contamination enables quality standards to be verified and documented, and the requisite optimisation measures to be implemented.

# **Applications**

- Automotive and supplier industry
- Gearbox and engine builders
- Mobile hydraulics
- Manufacturers of hydraulic and lubrication systems and components

#### **Advantages**

- Reduction in costs as a result of less production waste
- Identification and elimination of weak points
- Reduction in production-stage failures
- Optimisation of both internal and external handling processes
- Customised documentation of the technical cleanliness of components

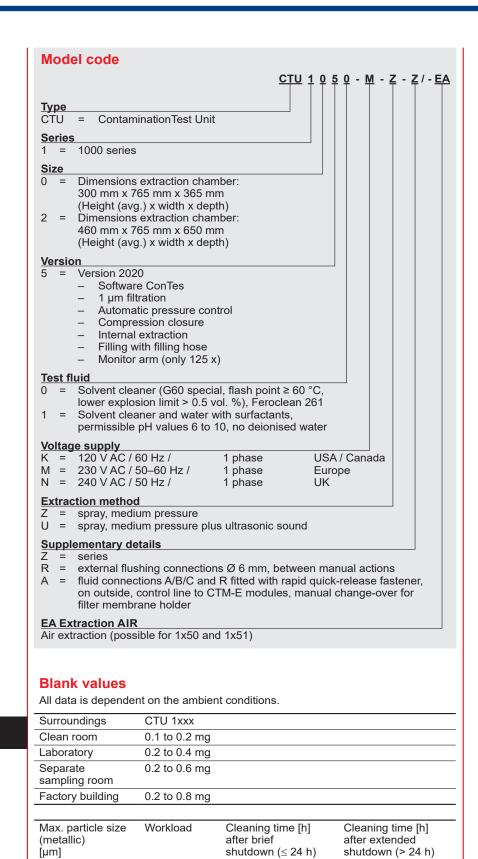
### **Technical Data**

Outer dimensions	Corresponding representation on the following page			
Nominal flow of test liquid	0–4.5 l/min			
Weight	CTU10xx: ≈ 270 kg ≈ 290 kg with ultrasonic unit CTU12xx: ≈ 310 kg ≈ 330 kg with ultrasonic unit			
Housing material	S235JR powder-coated			
Model	Mobile			
Power consumption	600 W (800 W with ultrasonic unit)			
Ambient temperature	15 to 28 °C			
Controller	IPC/PLC-controlled with user-friendly software, creation of the extraction procedure with parameters			
Emission sound pressure level	LPA < 70 db(A)			
Ultrasonic sound	100 W, 40 KHz			
Basket for ultrasonic unit	Dimensions: 200 x 110 x 40 mm Mesh width: 4 mm			
Extraction room (clean box)				
Filter membrane holder	for Ø 47 mm filter membranes			
Material	Polished stainless steel			
Inner dimensions	Corresponding representation on the following page			
Maximum load-carrying capacity	CTU10xx = 47.5 kg* CTU12xx = 47.5 kg*			
Machine compartment				
Operating pressure	-0.8 to 6 bar			
Test liquid reservoir	2x 18 I (1x storage reservoir, 1x suction reservoir)			
Reservoir switch-over	Automatic			
Filtration of analysis fluid	Fine filtration to ISO 4406 min. ISO 12/9			
Filtration rating	1 µm			
Vacuum generator	Metering orifice (Venturi)			
Collecting pan	Integrated 25 litres with drain			
To be provided by the owner (not	included)			
Compressed air	Pre-filtered (min. 5 μm) and dry compressed air, 6.5 to 7.0 bar Air flow rate: 60 l/min, Connection: nipple DN 7.2			
Supply voltage	Acc. to model code			

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<sup>\*</sup> for evenly distributed load, no point loading





250*	Low	0.5 to 1.5		
* applies to a maximum membrane load of 0.8 mg				

Medium

high

1.5 to 4

1 to 2

2 | HYDAC

100\*

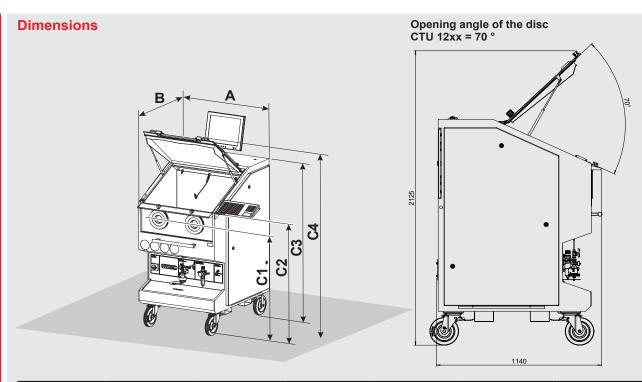
150\*

3 to 5

2 to 4

1 to 3

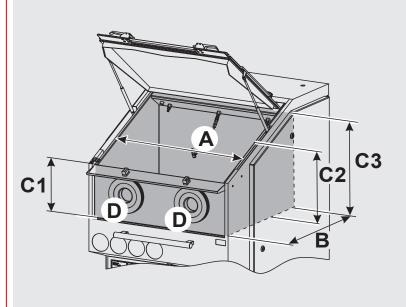




	Α	В	C1	C2	C3	C4
CTU10XX	985	850	1170	1290	1500	≈ 1900
CTU12XX	910	1140	1160	1280	1750	≈ 2150

All dimensions in mm





Oper	ning angle of the 10xx = 115°	<b>—</b>
1900	850	

	Α	В	C1	C2	C3	EE
CTU10XX	765	365	260	335	380	2x Ø 180
CTU12XX	765	650	300	445	560	2x Ø 180

All dimensions in mm

EN 7.959.9/09.24



#### **Note**

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

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

Subject to technical modifications.

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