# **HYDAD** INTERNATIONAL



## **ContaminationTest Module – Extraction Flushing** CTM-EF-1x3x

#### **Technical specifications**

General data	
Ambient temperature	15 28°C
Filter membrane holder	for Ø 47 mm filter membranes
Weight	≈ 75 kg (empty)
Dimensions (height x width x depth)	1.45 x 0.50 x 0.50 m
Self-cleaning	with an integrated orifice
Fill level monitoring	Ultrasonic sensor
Reservoir filling volume	≈ 5 litres/8 litres
Reservoir material	Polished stainless steel 1.4301
Housing material	S235JR powder-coated
Hydraulic connection	Quick release coupling
Built-in collecting pan	23 litres with drain
Electrical data	
Protection class to DIN 40050	IP 54
Supply voltage, module	24 V DC of CTM-SC 10 W maximum

#### **Blank values**

All data is dependent on the ambient conditions

Environment	CTM-EF 1230	CTM-EF 1430
Clean room	0.1 mg	0.1 mg
Laboratory	0.1 mg	0.1 mg
Separate sampling room	0.1 mg	0.1 mg
Factory building	0.1 mg	0.1 mg

#### CTM-EF 1230 / CTM-EF 1430

Max. particle size (metallic) [µm]	Time required	Cleaning time [h] after brief shutdown (≤ 24 h)	Cleaning time [h] after extended shutdown (> 24 h)	
70	high	1 4	1 4	
100	Medium	1 2	1 2	
150	Low	0.5	0.5	

### Description

The ContaminationTest Module CTM is a modular system for inspecting components with reference to their technical cleanliness. The solid particle contamination is thereby dedusted from the component surface through wet sampling and conveyed per diaphragm to a later evaluation. The CTM-EF extraction module is used for flushing in conjunction with a suitable module.

#### **Fields of application**

- Automotive and supplier industry
- Gearbox and engine builders
- Mobile hydraulics
- Manufacture of hydraulic and lubrication system components
- Aircraft industry

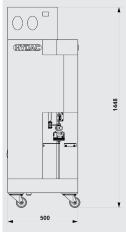
#### **Advantages**

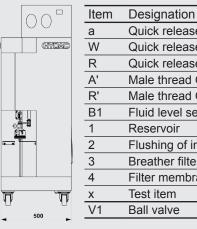
- Cost reductions through lower production waste
- Detection and elimination of weak points
- Reduction of failures before delivery
- Internal and external process optimisation
- Customised documentation of the technical cleanliness of components

#### Model code

	<u>CTM EF 12 0 0 - Z - Z - Z / -</u>
Туре	
CTM = ContaminationTest Module	
Module	
EF = Extraction Flushing	
Volume, reservoir	
12 = nominal, volume: 5 litres	
14 = nominal, volume: 8 litres	
Filtration	
3 = Version 2018	
Analysis fluid	
0 = Solvent cleaner (G60 Spezial, flash point > 60°C, lower	
explosion limit > 0.6 Vol.%)	
1 = water with surfactants, permitted pH values 6 - 10, no deionised water and G	660 Spezial
Supply voltage of option	
K = 120 V AC / 60 Hz / 1 phase USA/Canada	
M = 230 V AC / 50 Hz / 1 phase Europe	
N         = 240 V AC / 50 Hz / 1 phase         UK           O         = 240 V AC / 50 Hz / 1 phase         Australia	
P = 100  V AC  / 50  Hz / 1  phase  Japan	
Z = without	
Extraction method	
Z = spray, medium pressure	
Supplementary details 7 = standard	
Modifications - = without modifications	
- = without modifications	

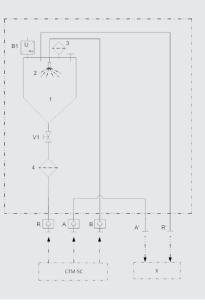
#### Dimensions (all dimensions in mm)





nem	Designation
а	Quick release coupling "A"
W	Quick release coupling "B"
R	Quick release coupling "R"
Α'	Male thread G 1/4"
R'	Male thread G 1/4"
B1	Fluid level sensor
1	Reservoir
2	Flushing of inner chamber
3	Breather filter
4	Filter membrane holder
х	Test item
V1	Ball valve

#### Hydraulic circuit diagram



#### **Scope of delivery**

- CTM-EF
- Technical documentation

#### Note

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

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

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