TestMate® Contamination Test Unit

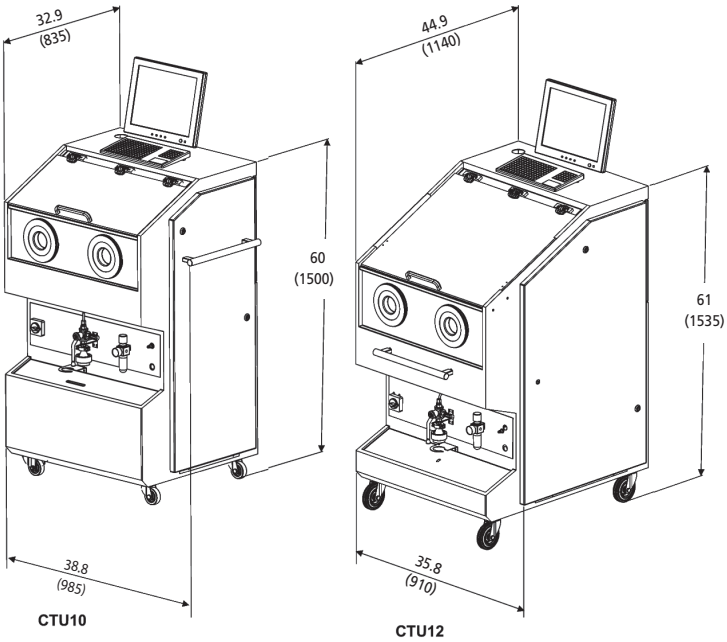
CTU

Features and Benefits

- Cost reduction through lower production failure rates
- Identification and elimination of weak process steps
- Optimization of both internal and external handling processes
- Establishing of cleanliness standards, both internal and external
- Documentation of component cleanliness
- Survey of fluid cleanliness and filtration concepts

Description

The Cleanliness Test Unit (CTU 1000) is designed to determine the technical cleanliness especially present on minor contaminated components. By determining the type, size and quantity of the contamination, quality standards can be checked and documented and the necessary steps towards optimization can be taken.



Metric dimensions in ( ).

Specifications

Overall Dimensions (H x W x L):	CTU10xx 71 in x 39 in x 35 in (1800 mm x 985 mm x 835 mm) CTU12xx 71 in x 36 in x 45 in (1800 mm x 910 mm x 1140 mm)
Weight:	CTU10xx: ≈ 595 lbs (270 kg) ≈ 640 lbs (290 kg) *with ultrasonic unit* CTU12xx: ≈ 685 lbs (310 kg) ≈ 728 lbs (330 kg) *with ultrasonic unit*
Mounting:	Mobile (mounted on casters)
Power Consumption:	600 W *(800 W with ultrasonic)*
Ambient Temperature:	59°F to 82°F (15°C to 28°C)
Cleanroom module — Material of Cleanroom:	Polished stainless steel
Filling with Analysis Fluid:	Via analysis cabinet
Max. Load Capacity:	CTU10xx = 105 lbs (47.5 kg) CTU12xx = 105 lbs (47.5 kg)
Control:	PC-controlled with user-friendly software, rinse options and rinsing volume programmable

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Specifications (cont.)

Reservoir and filtration module	Membrane Holder:	for ø1.85" (47 mm) to 1.97" (50 mm) filter membranes
	Vacuum Strainer:	For quicker filtration of the analysis fluid
	Diffuser:	Distribution of analysis fluid on the membrane
	Operating Pressure:	-12 to 87 psi (-0.8 to 6 bar)
	Analysis Fluid Reservoir:	2x 5.3 gal (20 l) *(1x reservoir, 1x suction reservoir)*
	Reservoir Change-over:	Automatic
	Filtration of Analysis Fluid:	Fine filtration according ISO 4406 min. ISO 12/9
	Filter Size, Filtration Rating:	2x LF BN/HC 60, 3 µm (1xx0 series) 2x MRF-1-E/1, 1 µm (1xx1 series)
	Integrated Drip Tray:	6.6 gal (25 litre) with drainage
	Ultrasound:	100 W, 40KHz
	Dimensions:	Dimensions: 7.9" (200 mm) x 4.3" (110 mm) x 1.6" (40 mm); Mesh width: 0.16" (4 mm)
	Emission Sound Pressure Level:	L_{PA} <70 db(A)
Services to be provided by operator*	Compressed Air:	Air Filtered (min. 5µm) and dry compressed air, max. 1741 psi (6 bar) Air flow rate: 15.8 gpm (60 lpm), Supply connection: DN 7.2
*Not supplied	Power Supply:	According to order

Model Number Selection

How to Build a Valid Model Number for a Schroeder CTU:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
CTU							

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	
CTU	1	2	4	0	K	Z	Z	**= CTU1240KZZ**

BOX 1

Series
CTU = Contamination Test Unit

BOX 2

Model
1 = Analysis Cabinet *(clean room)*

BOX 3

Installation Size
0 = Dimensions analysis cabinet: 11.8"x30.2"x14.4" *(300mm x 768mm x 365mm) (effective height x width x length)*
2 = Dimensions analysis cabinet: 18.1"x30.2"x25.6" (460mm x 768mm x 650mm) (effective height x width x length)

BOX 4

Analysis
3 = Version 2011 with ConTes software, 1um filtration and automatic pressure control
4 = Version 2014 – Compression closure, cleanbox – Internal extraction, cleanbox – filled via 3/2 way ball valve and filling hose – Monitor arm *(only 124x)* – Nozzles with plug-in connection *(plug-in nipple in analysis chamber)*

BOX 5

Analysis Fluid
0 = Solvent A III Class *(Flashpoint > 140°F (60°C), lower explosion limit > 0.6 Vol.%)*
1 = Water with surfactants, admissible pH-range 6 to 10, no deionized / demineralized water

BOX 6

Supply Voltage
K = 120 VAC / 60Hz / 1 Phase USA / CDN
M = 230 VAC / 50Hz / 1 Phase Europe
N = 240 VAC / 50Hz / 1 Phase UK

BOX 7

Extraction Process
Z = Spray *(medium pressure)*
U = Spray *(medium pressure)*

BOX 8

Supplementary Details
Z = Standard
R = External rinsing connections 0.24" (Ø 6mm), between the hand holes
F = Fluid connections A/B/C and R fitted with rapid quick-release fastener on outside, Control line to CTM-E modules
A = Manual change-over for filter membrane holder

Note: Analyzing Fluid not supplied with unit - G60 Analyzing Fluid, 30L; PN 03205511

This information 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.