

# TestMate® Contamination Test Unit

**CTU**

CS 1000

CS 1939

CSI-C-11

HY-TRAX®

RBSA

CSM

TFL

TFH

FCU

MCS

AS

SMU

**CTU**

EPK

Trouble

Check Plus

HMG2500

HMG4000

ET-100-6

HTB

RFSA

HFS-BC

HFS-15

MFD-BC

MFS, MFD

HY-TRAX® Retrofit System

MFD-MV

MFS-HV

AMS, AMD

FS

AMFS

KLS, KLD

MCO

AKS, AKD

LSN, LSA, LSW

X Series

OLF Compact

OLF

OLF-P

NxTM

VEU

IXU

Triton-A

Triton-E

NAV

SVD01

SVD

OXS

Appendix

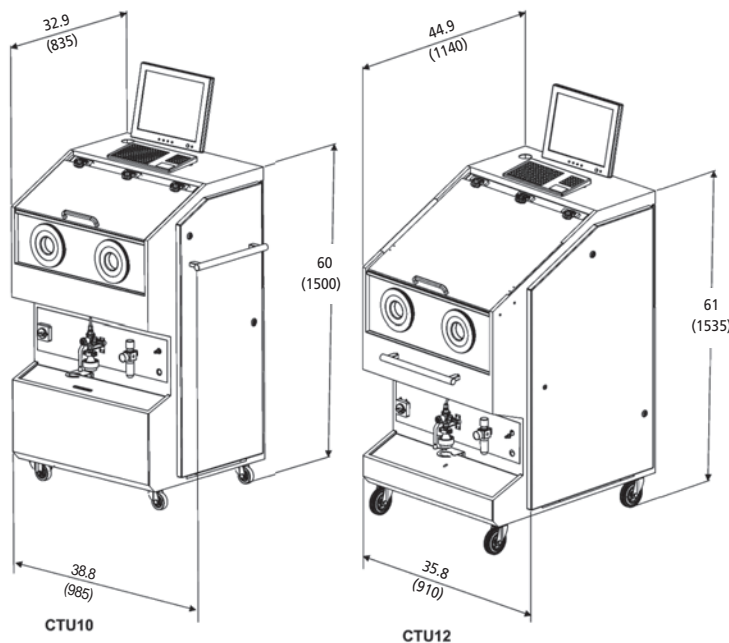
## Features and Benefits

- 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



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.

## Description



Metric dimensions in ( ).

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

## Specifications

## 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 <sub>w</sub> <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	5	0	K	Z	Z	= CTU1250KZZ

BOX 1		BOX 2		BOX 3	
Series		Model		Installation Size	
CTU = Contamination Test Unit		1 = Analysis Cabinet (clean room)		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					
5 = Version 2020 - Software ConTes - 1 µm filtration - Automatic pressure control - Compression closure - Internal extraction - Filling with filling hose - Monitor arm (only 125 x)					
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			BOX 8		
Supply Voltage			Supplementary Details		
K = 120 VAC / 60Hz / 1 Phase USA / CDN M = 230 VAC / 50Hz / 1 Phase Europe N = 240 VAC / 50Hz / 1 Phase UK			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		
BOX 7					
Extraction Process					
Z = Spray (medium pressure) U = Spray (medium pressure)					

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.