

CLEANING IN FLAMMABLE LIQUIDS

Introduction

On the present cleaning with ultrasound is on rise in various branches of industry. Main reason is especially high efficiency of cleaning, thriftiness to cleaned object, reproducibility of results and independence of final effect from operating personnel. These advantages of ultrasonic cleaning are possible to enhance more by choosing proper cleaning liquid.

Impossibility to use some cleaning liquids classified as flammable liquids III. class in majority of common ultrasonic cleaners is often the cause, why all of the advantages of such cleaning can not be utilized at full potential.

Utilization of cleaning characteristic of flammable liquids with flash point over 55 °C combined with the effects of ultrasonic technology allows new series of industrial ultrasonic cleaners UCI *vv.ppp Ctt*.

Description

Tanks are welded from stainless steel plates with 2 mm thickness. Digital control allows besides other things to set temperature, time and power of ultrasound and save up to 10 cleaning programs with these parameters.

The cleaner has outtake valve to drain cleaning liquid and intake and outtake valves for cooling liquid.

- Software and hardware protection against dangerous increase of temperature of cleaning liquid
- Cleaner is automatically turned off when the cleaning liquid temperature rises to value 15 °C below corresponding flash point
- Controlling and programming is realized through digital control panel
- All functions of cleaner and ultrasonic generator are controlled by microprocessor
- DEGAS function to remove gasses from cleaning liquid
- SWEEP function to achieve uniform cleaning effect in the whole volume of cleaner
- Cooling of cleaning medium with cooling water flow
- All parts of tank and mechanical components are manufactured from stainless steel AISI 304
- Cleaners are manufactured in compliance with standards EN 60204-1, EN 12921-1, EN 12921-3, EN 6100-6-2, EN 6100-6-3



UCI30.600C75/037L01 Ultrasonic cleaner with closed cooling circuit, horizontal left configuration



UCI20.400C70/037V01 Table-top ultrasonic cleaner

Type	Volume	Inner tank dimension	Liquid level
	l	mm	mm
UCI20.400Ctt/037L01	20	350 x 300 x 215	190
UCI26.520Ctt/037L01	26	350 x 300 x 275	250
UCI30.600Ctt/037L01	30	350 x 300 x 310	285



Technical parameters

Supply voltage / frequency	230 V ± 10 % / 50-60 Hz
Max. power of ultrasonic generator	600 W
Max. power of heating element	750 W for cleaners with volume from 6l to 13 l 1500 W for cleaners with volume over 13 l
Power drain of electrical cooling	420 W
Sweep	yes
Timer (continuously adjustable)	0 - 99 min.
Protection	IP24
Safety class	I
Cleaner type	A2
Water consumption with open cooling circuit	100 l / hour
Intake and drain valve of cleaning water	1/2"
Cleaning liquid drain	3/4"
Maximum sound pressure level L _{AEX,8h}	60 dB
Maximum ultrasonic pressure level L _{EX,8h}	90 dB

Cleaner marking

	UCI	20	.	400	C75	/	037	L	01	
		06							02	
		26							03	
		30		120					04	other characteristic of the cleaner
volume (l)		60		400				V		separate cleaner, open water cooling circuit
				520				U		separate cleaner, closed cooling water circuit
ultrasonic power max. 600 W				600	C55			L		cleaner with electrical cooling, horizontal frame, cleaner on the left side
					C60			P		cleaner with electrical cooling, horizontal frame, cleaner on the right side
flash point temp. 55 °C až 75 °C					C75		020			
							025			
							037			operating frequency

Marking examples

UCI30.600C75/037L01

tank volume 30 liters, US power 600 W, a flash point of cleaning liquid 75 °C, horizontal frame, cleaner on the left side, basic version

UCI20.400C55/037V01

tank volume 20 litrov, US power 400 W, a flash point of cleaning liquid 55 °C, separate cleaner with open water cooling circuit, basic version

Manufacturer



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