

CDU-96

Modular Reagent Dispenser Unit for Screw Top Tubes



The Cedrex CDU-96 is a very compact reagent dispenser unit developed and designed for modular integration with the CSD-96 decapper / recapper for screw top tubes.

The combination CSD-96 decapper / recapper and CDU-96 reagent dispenser unit is based on automatically decapping, dispensing cell suspensions and other liquids into the micro-tubes and recapping the tubes in a 96 rack SBS-1 foot print.

Functions

- Decapping, dispensing and recapping one column (8 tubes) at the time re-using the old caps
- Decapping, dispensing and recapping one column (8 tubes) at the time, but with waste of old caps and recapping with new caps from cap storage.

Combinations

- Using the combination CSD-96 decapper/recapper and CDU-96 dispenser unit for recapping, dispensing and recapping - as stand alone system.
- Using the combination CSD-96 decapper/recapper and CDU-96 dispenser unit for recapping, dispensing and recapping - integrated in a robotic bench with e.g. stackers.
- Using the CSD-96 alone as 96 tubes decapper/recapper.

Important-by dispensing only 1 open column at the time-Assy contact with the atmosphere and the danger for contamination will be essential minimized.

Dispensing

The dispensing unit CDU is provide with microprocessor controlled 8-channel precision peristaltic pump with 3-stop tubes.

Main commands and power supply to the dispensing unit CDU with multiplug connection from the CSD decapper / recapper.

Dispensing volume is set via finger touch control panel or operation via PC.

Feature

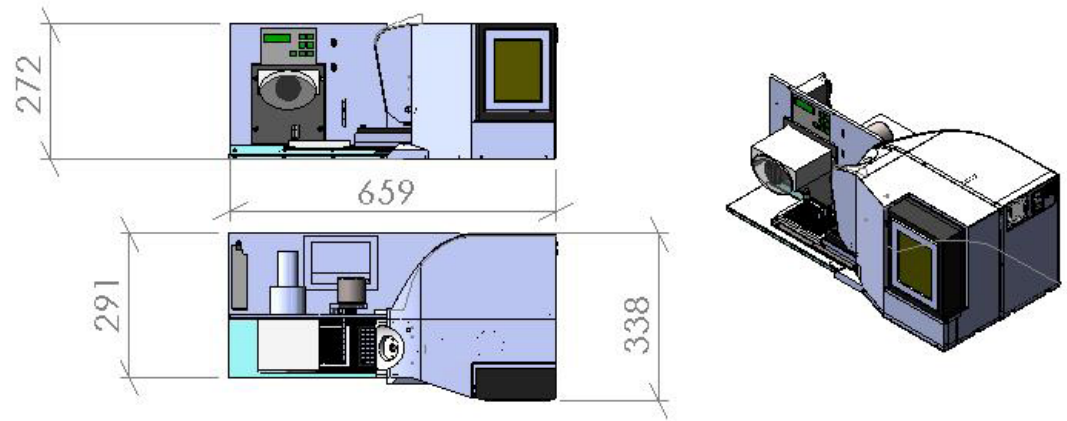
- Easy to operate.
- Only 8 tubes open for dispensing at the time.
- Minimum distance between the decapper/ recapper part and dispensing point.
- Easy to place in a culture cabinet.

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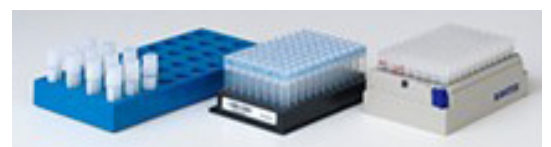


Specifications

Interface:	Communication with CSD-96 decapper/recapper
Tubes:	Nunc Cryobank Vials and Bank-It. Nunc Cryovials. Matrix, Micronic, FluidX and Greiner
Capacity / flow rates:	0,0011 – 84 ml./min.
Capacity:	0,001 – 57 ml./min
Dimensions :	Width: 500 mm. Height: 280 mm. Dept.: 300 mm.
Weight :	Total 30 Kg. incl. Decapper
Electrical :	230 / 115 VAC, 50 / 60 HZ
Materials :	All components with product contact are made from stainless steel, aluminium and POM Cabinet protection grade IP 54 Cabinet in soft steel with powder coating
Standard Version :	CDU-96I for robot integration with CSD-96I decapper/recapper CDU-96M stand alone model with CSD-96M decapper/recapper

Option

Other vials and rack
foot print on request.
Full robot integration.



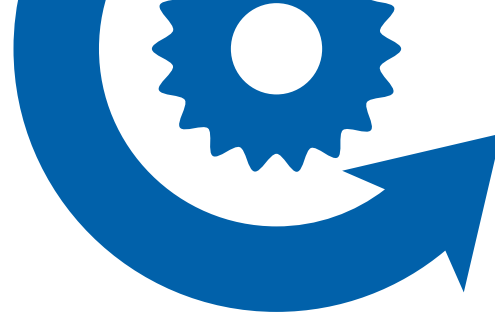
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CDU-96

Pump head ISM 735



MS/CA 8-12
8 channels

Specifications:

Dispensing volume range: 0,001 – 57 ml./ minute
Dispensing accuracy: AC +/- 2% CV (5ul)



Click'n'go Cassettes

Automatic occlusion setting

- an incorrect adjustment of the pressure lever is not possible
- the pumping conditions are defined and reproducible at any time
- the occlusion remains correct during the whole service life of the tubing
- no occlusion resetting is required
- optimum long-term channel-to-channel conformity



Cassettes with
Pressure Lever

Individual pressure setting for each channel

- due to the various tube sizes, wall thicknesses and materials available, an optimally adjusted occlusion lever may offer advantages in comparison to the Click'n'go cassette
- for certain operating conditions, such as varying and/or elevated differential pressure conditions, this type of cassette may have advantages over the Click'n'go cassette

Select the tubing i.d. according to the required flow rate

Flow-rates ml/min per channel		Colour code tubing	Overview 3-stop color-coded tubing	
Min	max	i.d. mm.		
0.001	0.22	0.13	Tygon® ST R-3603/R-3607	The inexpensive all-round tubing for general laboratory applications
0.003	0.51	0.19		
0.004	0.91	0.25		
0.009	2.1	0.38	Tygon® SI Silicone 3350 (Platinum)	The platinum-cured silicone tubing with an ultra-smooth inner surface for sanitary transfer of sensitive fluids.
0.012	2.8	0.44		
0.016	3.8	0.51		
0.019	4.7	0.57	PharMed® Ismaprene	The ideal tubing for pharmaceutical and medical applications, and for foodstuffs
0.024	5.8	0.64		
0.033	8.0	0.76		
0.044	11	0.89	Tygon® HC F-4040-A	The special tubing for hydrocarbons, petroleum products and distillates
0.050	12	0.95		
0.056	13	1.02		
0.063	15	1.09		
0.067	16	1.14		
0.075	18	1.22		
0.083	20	1.30		
0.094	23	1.42		
0.10	25	1.52		
0.12	28	1.65		
0.13	30	1.75		
0.13	32	1.85		
0.15	37	2.06		
0.17	41	2.29		
0.19	46	2.54		
0.21	52	2.79		
0.24	57	3.17		



Two types of nozzle are available:

- Stainless steel nozzle.
- Resin nozzle (polypropylene).

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