

Auto Clean and Sampling Unit, DCU-551 Series

This unit allows the end user to drain the measured sample, rinse the cell with two kinds of solvent and air purge in the cell.

Features

- Adoption of a peristaltic pump allows an operator to measure the density on higher viscous sample of 30,000 mPa•s.
- This unit is equipped with self-diagnostic function by checking keypad function and display.

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- The cleaning efficiency is increased by blending air into rinse solvent. By this way, the total amount of rinse solvent is decreased and saved. In addition, not only inside but outside of the nozzle can be cleaned very well since the rinse solution is fed from the outside of the nozzle unit.
- Expensive sample materials like perfume or fragrance can be returned back to sample vial after measurement are over.
- The DCU-511 series provides a variety of models with different specifications depending on what type of sample material is going to be measured : N type for room temperature used, SS type for small size sampling, H type for high temperature used.

N type : 20mL vials for use at room temperature.

SS type : 8mL vials for small size of liquid samples. Furthermore, the sensor, which inhibits over-sampling minimizes required amount of sample (approx. 6mL).

H type : For those samples which are softened when heated, the sampling lines are heated up to 80°C



Specifications

Model name	DCU-551 Auto Clean and Sampling Unit		
Type name	Standard type N	Small sampling type SS	Heating type H
Number of vials	20mL vial	8mL vial	20mL vial
Min. sample required	10mL	6mL	10mL
Sampling method	Pressurizing by Peristaltic pump		
Setting temperature	N/A	N/A	Room Temp. ~ 80°C
Drain system	1) Pressurized draining 2) Sample-returning to vial system		Sample-returning to vial system
Control	1) Auto-start by [Meas.] key of density meter / specific gravity meter or concentration meter 2) Auto-start by [Start.] key of DCU-551 unit 3) Rinsing and purging 4) Auto-calibration by [Calib.] key of density / specific gravity meter or concentration meter		
Display	20 digits by 2 lines LCD with a backlight		
Ext. communications	1) Simplified serial interface via the connecting cable (980303388) 2) RS-232C interface for communications		
Connectable unit	Density / specific gravity meters: DA-520/DA-510/DA-505/DA-500 Beer analyzer: WBA-505B ; General concentration meters: WBA-505/WBA-504 (Type N only)		
Ambient condition	1) Temperature: 5 ~ 35°C ; 2) Humidity: less than 85%RH (No condensation)		
Power source	AC 100 ~ 120V or 200 ~ 240V ; 50/60Hz		
Power consumption	Max.760W (NRP 40W)	Main unit : Max.760W (NRP 40W) Power unit: Max.150W	
Dimension	291(W) x 310(D) x 342(H) mm		Main unit: 400(W)x350(D)x450(H)mm Power U.: 100(W)x310(D)x180(H)mm
Weight	Approx. 10kg		Main unit : Approx.16.5kg Power unit: Approx.3.2kg