

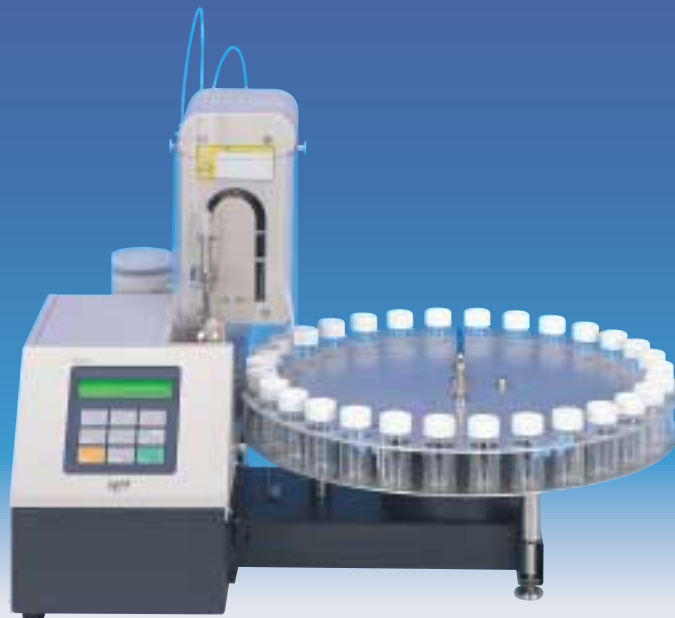
Multiple Sample Changers, CHD-502 Series

Introduction

The CHD-502 multiple sample changer is used in combination with density meter.

Maximum 30 samples in each 20mL vial can be set on carousel. This sampler provides when connected to a density meter a series of events in sequence including cleaning and drying the sample line up to the measuring cell.

This unit is conformed to CE-mark for safety and noise regulation.



Features

- Adoption of a peristaltic pump allows an operator to measure the density on higher viscous sample of 30,000 mPa*s
- The sequential program automatically stops when the unit detects an empty vial position after the last sample vial is finished.
- This unit is equipped with self-diagnostic function by checking sequence program, keypad function and display.
- The auto-power off functions when a series of measurements is finished so that it saves electricity when operated overnight unattended. This feature can be set in while the unit is being activated.
- 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 CHD-502 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 or C type for low 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 the measurements on specimen with higher softening point, both the turntable unit and the sampling path can be heated and kept warm – the H-type option for heating the turntable unit with an electric heater up to 80°C.

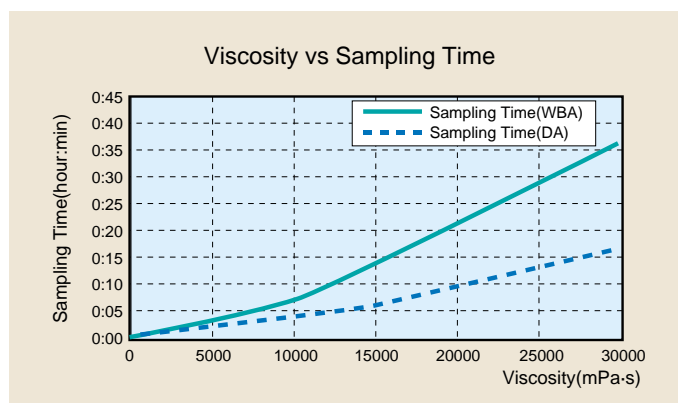
C type : For those volatile samples, which evaporate at room temperature can be kept cool by the thermostatic bath.



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Specifications

Model name	CHD-502 Multiple Sample Changer			
Type name	Standard type N	Small sampling type SS	Heating type H	Cooling type C
Number of vials	Up to 30 (20mL vial)	Up to 48 (8mL vial)	Up to 30 (20mL vial)	
Min. sample required	10mL	6mL	10mL	6mL
Sample position	Turntable system			
Sampling method	Pressurizing by Peristaltic pump			
Setting temperature	N/A	N/A	Room Temp. ~ 80°C	N/A
Heating or cooling system	N/A	N/A	By electric heater	By circulating water bath
Drain system	1) Pressurized draining 2) Sample-returning to vial system		Sample-returning to vial system	Pressurized draining ; Sample-returning to vial system
Program sequence	1) Sample measurement only 2) Sample measurement after the "Air & Water" calibration 3) Sample measurement after the "Two kinds of Standard liquids" calibration			
Control	1) Auto-start by [Meas.] key of density / specific gravity meter or concentration meter 2) Auto-start by [Start.] key of CHD-502 unit 3) Rinsing and purging 4) Auto-calibration by [Calib.] key of density / specific gravity meter or concentration meter 5) Priority measurement			
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	DA-520 / DA-510 / DA-505 / DA-500 WBA-504 / WBA-505 / WBA-505B		DA-520 / DA-510 / DA-505 / DA-500	
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 (NRP40W)		Main unit: Max.760W (NRP 40W) Power unit: 340W	Max.760W (NRP40W)
Dimension	582(W) x 445(D) x 392(H) mm		Main unit: 610(W)x455(D)x500(H)mm Power unit: 195(W)x390(D)x100(H)mm	610(W)x455(D)x392(H) mm
Weight	Approx. 17kg		Main U.: Approx.29kg Power U.: Appox.5kg	Approx. 24kg



* The above data is an example when connected with CHD-502