

MASHING BATH

APPLICATION

For laboratory Breweries, Distilleries, Food Products, Scientific Analysis of malt extract by Hartong , Congress, and ASBS Methods and Research Lab.

KEY FEATURES

- **ANALYSIS PROCEDURES** Congress- and Hartong-Methods are standardized methods to the extraction of different analyses key figures.
- **CONGRESS-METHOD** Mashing, by passing through a temperature program. Use of malt-fine grind and -coarse grind.
- **HARTONG – METHOD** Mashing at constant temperature (20°, 45°, 65° or 80° C).Use of malt-fine grind
- **CONSTRUCTION** Rectangular constant temperature bath having inner reservoir made of thick gauge 304 AISI, Stainless steel buffed to mirror finish. External casing made of thick gauge CRCA sheet duly powder coated. The bath is provided with stainless steel lid with 4/6/8 ports. 4/6/8 stainless steel beakers supplied.
- **DRIVE MECHANISM** A battery of 4 / 6/8 agitators are driven by a heavy duty Permanent Magnet DC geared motor With DC frequency drive. The stirring paddles are made out of stainless steel rods. The speed of agitator, which oscillates through drive knob and digitally indicated with Variable Speed 15-150 rpm (can be customize the RPM as per customer requirements) . The drive assembly is mounted on a rigid stand just above the constant temperature bath with detachable stirring paddles.
- **STIRRER** Heavy Duty PMDC motor stirrer for bath for uniform temperature of bath, Shaft made of Stainless steel 304 grade
- **HEATING** Stainless steel sheathed immersion heater made of Oxidized Nichrome wire fitted at the bottom of the bath to uniformly dissipate the heat across the bath area
- **CONTROL PANEL** Comprise of Mains On/Off, Digital Microprocessor Based PID Temperature Controller, Digital Timer, Motor On/Off, Electronic Speed Controller And Rpm Indicator
- **Temperature Controller:** Fully automatic microprocessor PID temperature controller with PT-100 sensor accurately controls the desired set temperature of the bath with +0.5°C accuracy. The controller is having two display for set and process value.
- **Digital Timer:** Facilitates to preset the duration of the test run in hour/minutes. The drive system stops automatically after elapse of set time.
- **DC Frequency Drive:** Continuously variable speed is adjustable by means of a knob by turning it clockwise / anticlockwise.
- **RPM Indicator:** Digitally indicates the speed of the agitator.

TECHNICAL MATRIX

Model No	PTE-MB-708	PTE-MB-708	PTE-MB-708
Bath Capacity	2 agitators.	4 agitators	6 agitators
Pots Capacity	500 ml		
Speed	20 to 275 rpm		
Temp. Range	Above ambient to 150°C, +0.5°C.		
Digital RPM	RPM indicator is supplied with the machine		
Digital Timer	Digital Timer is supplied with the machine 0-999 minutes		
Power Supply	220 +10%VOLT AC, 50 Hz, 1 Phase.		

