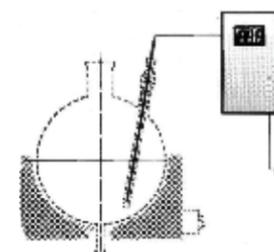




Borolab
Scientific Glass Pvt. Ltd.

DIGITAL TEMPERATURE INDICATOR

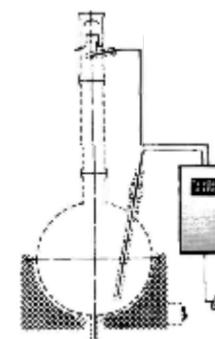


Cat. Ref.	Vessel Size	RTD Length
BDTI20	20	400
BDTI50	50	500
BDTI100	100	600
BDTI200	200	700

This instrument is mainly used to monitor the temperature of liquid in a glass vessel in a typical glass distillation unit.

The instrument consists of a Temperature indicator and a Resistance temperature detectors (RTD). The instrument works on 230V, 50Hz power supply. This displays the temperature in degree Centigrades in three and half digits of 12.5mm character height.

TWO POINT DIGITAL TEMP. INDICATOR

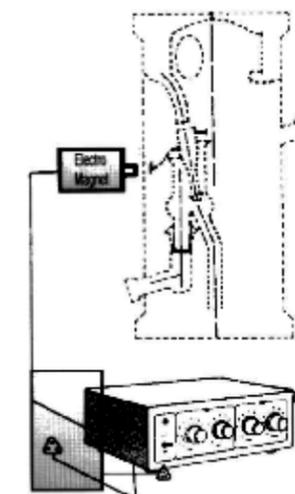


Cat. Ref.	Vessel Size	RTD Length for Vessel	RTD Length for Reflux Divider
BDTT20	20	400	200
BDTT50	50	500	225
BDTT100	100	600	250
BDTT200	200	700	300

This instrument is mainly used to monitor the temperature of liquid in a glass vessel and temperature of vapours at reflux divider in a typical glass distillation unit.

The instrument consists of a Temperature indicator and two Resistance temperature detectors (TRDs). The instrument works on 230V, 50Hz power supply. This displays the temperature in degree centigrades in three and half digits of 12.5mm character height. A switch is provided to see the two temperatures alternatively.

ELECTRO - MAGNETS



Cat. Ref.	Type
BRPM	Non-Flameproof
BRPF	Flameproof

Electro-magnets are used to operate Magnetically operated Reflux dividers. When 'On' the magnet attracts the swinging funnel of the reflux divider so that distillate can be taken off.

Electro-magnets are to be mounted outside the glass column, just near to the reflux divider, with the help of adjustable fittings. These are designed to use with Timers to maintain correct ration between 'Off' and 'On' timings of its activation.

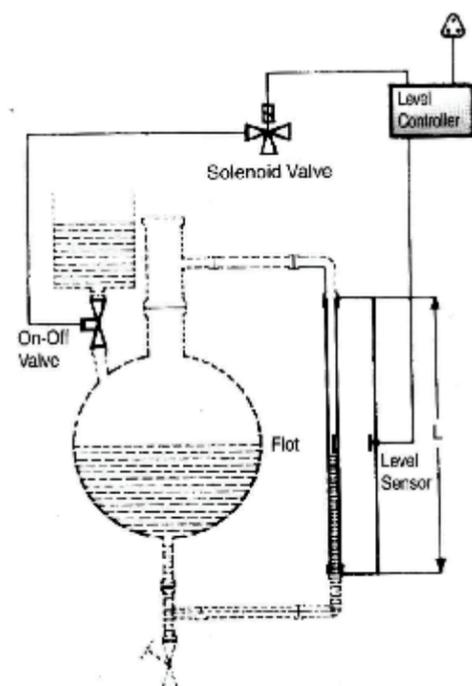
Electro-magnets work on 220V DC power supply, for which a

TIMERS

Cat. Ref.	Type
BRPM	Non-Flameproof
BRPF	Flameproof

Timers are designed to use with Electro-magnets to provide a correct ratio of reflux and distillate when operating a Magnetically operated reflux divider.

AUTOMATIC LEVEL CONTROLLERS



Cat. Ref.	Vessel Size	RTD Length
BALC20	20	375
BALC50	50	500
BALC100	100	600
BALC200	200	750

This system is used for automatic control of liquid level in a glass vessel. The system consists of a Level float, a Level sensor, a Level controller, a solenoid valve and a Shut-off valve. All the parts which come in contact of liquid in the vessel are made of either Glass or PTFE.

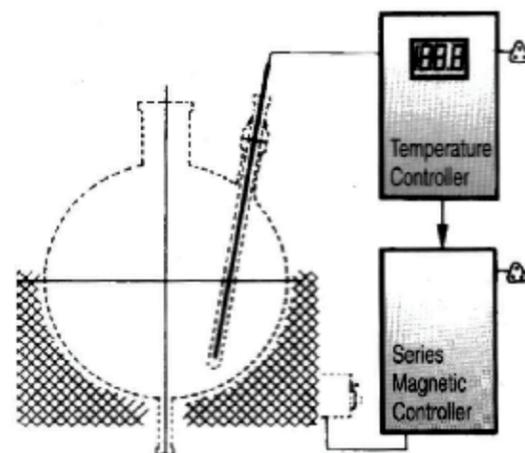
The vessel is connected to a glass pipe section in which a glass embedded metallic float is inserted. The float moves up and down according to the level of liquid in the vessel. The level sensor is mounted on an adjustable support, facing towards the glass pipe section. When the float reaches in the level of sensor, sensor gives signal to the level controller, which in turn operate the solenoid valve. Solenoid valve stops the air supply in the shut-off valve and shut-off valve gets close. This stops further feeding of the liquid in the vessel.

As liquid level decreases due to vapourisation or drain, the float falls down out of the sensor level and shut-off valve opens. This starts the feeding of liquid in the vessel again.

The system can be reversed so that shut-off valve can be installed on outlet of the vessel, instead of inlet, for automatic control of drain of the liquid from the vessel.

The system works on 230V, 50Hz power supply. All the glass fittings used in the system are of 25DN size

CONTINUOUS TEMPERATURE CONTROLLER



Cat. Ref.	Vessel Size	L
BCTC20	20	400
BCTC50	50	500
BCTC100	100	600
BCTC200	200	700

This instrument displays and controls the temperature continuously by switching the power supply on and off in an electrical heating equipment as per the initial settings of heating temperature, band width and reset temperature.

The instrument consists of a Temperature controller, a series magnetic controller & a resistance temperature detector (BRTD) BRTD is put into the thermometer pocket of the glass vessel and desired settings are done. As the temperature in the vessel reaches to the set heating temperature, the temperature controller cuts the power in heating equipment off. Power starts on again as the temperature goes down as per the settings of band width and reset temperature.

This instrument works on power supply of 230V, 50Hz and can be used with heating mantles and heating baths of all the size. It displays the temperature in degree centigrades in three and half digits of 12.5mm character height.



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