



Product Name:

Fluid Mixer Apparatus

Product Code: ALABS-A159-002



Description:

Fluid Mixer Apparatus

For a processing vessel to be effective

the volume of fluid circulated by the impellers must be sufficient to sweep out the entire vessel in a reasonable time. The velocity of the stream leaving the impeller must be sufficient to carry the current to the remotest parts of the tank. Liquids are most often mixed in some kind of tanks or vessels, usually cylindrical in form and with a vertical axis. Tank bottom is rounded to

eliminate regions into which the fluid currents would not penetrate. In the present set-up mixing is done with the help of stirrer. The stirrer is complete with SS Impeller with SS Shaft coupled to FHP DC motor. The speed of agitator can be varied with the help of Thyristor controlled DC Drive and power consumption is measured by Digital Voltmeter & Digital Ammeter. Four replaceable baffles are provided to prevent swirling. One 4-bladded propeller and one 6-bladded turbine are provided which are interchangeable. Drain valve is also provided at the bottom. Effectiveness of power consumption in fluid mixing can be performed with and without baffles hence increasing the range of experimentation. The whole set-up is mounted on a rigid MS frame structure.

Experimentation:

- To plot Power number Vs Reynolds number for the given set of impeller with baffled/ unbaffled mixing.
- To study the mixing characteristics of give solid/liquid mixture.

Utilities Required:

- Electric Supply: Single Phase, 220 V AC, 0.5 kW
- Water Supply.
- Drain

Technical Details:

TMaterial Stainless Steel. Dia. 300mm, Depth 400mm (approx.)

SSSdmpeller with SS Shaft coupled to Standard make FHP Variable Speed Motor and Drive.

Antaitoless Steel shaft & impellers (i.e. one propeller & one turbine)

Blaffaltersial Stainless Steel, 4 Nos. 2" width. (detachable).

Santhplingtpraintlom locations.

Control Panel Comprises of:

RIPINGITIAN ENDING WITH Proximity sensor.

D0g&aDV.com/trseter

Alonatnatorena.

Standard make on/off switch, mains indicator etc.

In Astruction Manual will be provided along with the Apparatus

A good quality painted rigid MS Structure is provided to support all the parts.



Equipments Exporters

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