

# Homogenizers



## ►►► Specifications

The vessel can take water for injection (WFI) of 85°C.

Parts including vessel, inlet and outlet nozzles, valves, piping interconnection, Shell, Top closure, Bottom closure, Planetary Agitator made of SS316L & Cladding to cover the jacket made of SS304.

Height/Diameter ratio - 2:1

Geometric volume – 80L

Maximum working volume- 60L

Surface finish - Internally Electro polished up to  $\leq 0.6$  microns (mirror finish)

Internal finish of the interconnecting piping  $Ra < 0.6 \mu m$

Externally mechanically polished up to  $Ra \leq 1.2$  microns (matt finish)

Vessel with Gel Addition, Spray ball,

Inlet/Exhaust line

1. A single sterile inlet and exhaust filter (0.2/0.22 micron) with SS housing.

2. Compressed air inlet for vent filter

3. Air PRV (with filter)

4. Pressure: pressure of the vessel during process shall be monitored by Diaphragm pressure gauge for vessel.

Agitator is planetary/Ribbon type/ Rushton turbine

Properties of fluid:

Operating temperature- Ambient

Operating pressure- Atmospheric pressure

Viscosity (cPs) – PIIC to provide

Density – PIIC to provide

Particle load(if any in gm / Litre) – PIIC to provide

Maximum tip speed (in meter / second)

-Flush bottom valve: it is also zero dead leg type valve directly welded to vessel bottom, centrally, having a PTFE diaphragm.

Mobile CIP system with SS 316L spray ball for the cleaning of the interior of the vessel and all the nozzles on the top dish and nozzles, ports on the vessel.

- Controller: semiautomatic PLC based controller

### ▶▶▶ Nozzle with

#### 1. Top dish:

- Light/sight glass-1 No.
- Hand hole-1 No.
- Spray ball -2 No.s
- Pressure gauge -1 No.
- Addition port
- TC Spare part -1 No.
- Inlet/Exhaust port with sterile filter( 1 R “ 0.2μ PTFE)) -1 No.
- Port for agitator -1 No.
- Port for level measurement -1 no.

#### 2. Bottom dish:

- Flush bottom valve provision for separate steam sterilization-1 No.

#### 3.Non Sterile sampling valve assembly.

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