

Industrial Computer System
 Human Engineering Related
 Friendly Human-Machine Interface
 Auto-Sterilization in Place
 Direct AC Servo transmission
 Open Frame Design
 Flexible Software Control System
 Fully Built With Pneumatic
 Diaphragm Valves

BTF-C PILOT SCALE FERMENTOR



Features

PID Control Mode
 Advanced Multi-Functional DO Control
 A Stainless Vessel and Frame
 One Highly Efficient Exhaust Air Codenser
 and One Windowed Vessel
 Freely Defined Parameters on Sterilization
 User-defined Applications for Peristalsis
 Pumps
 Easy Adjustment by Software
 Computer Recordable Output Signals
 With Bilateral Control

Headplate / Vessel

Ring Type Blowing Pipes
 One Windowed Port for Feeding Material
 Four 25mm Upper Brim Ports for Electrodes
 Six 25mm Lower Brim Ports for Electrodes
 Three 19mm Ports for Feeding Material
 on the Headplate
 Two Ports for Foam Probes (Foam
 /Hi-Foam)
 One Sterilizable Diaphragm Pressure Sensor
 One Aseptic Water Maker and Dual Mechanical
 Seal
 One Basal Sterilizable Harvest Valve Ranked
 Within Sanitary Industry
 One Side Sterilizable Valve for Sampling
 One Port for Internal Illumination
 One 40mm Port for Inoculation

Specifications

Vessel Volume: 200~250 Liter(With Internal Vessel SS316L)
Polish on the Vessel: With 240grit in Internality, While
 240grit in Externality
Temperature-Control Range: Cooling Water From 5 to
 80 (+/-0.1)
Stirring Speed: 25 to 450rpm (Measured from the Top or the
 Bottom)
Air Sparger: 5 to 350 slpm(Mass Flow)
pH Range: 2-12.00 pH
DO Range: 0 ~100%(Related to Such Control as Stirring
 Speed, Air Sparge, and Pressure in Vessel)
Air Filter: 0.01 μ m Inlet and Exhaust(Sterilization-
 repeatable)
Foam Sensor: Conductivity Type (Foam/Hi-Foam)
Vessel Pressure: 0-3.5kg/cm² (Within SS316L Where
 Diaphragm Features)
Valves: Sanitary-Industrial Pneumatic Diaphragm Valves
Signal Outputs: 4-20mA or RS232 Compatible
Peristalsis Pumps: 4 Free-set Functions for Pumping
 Acid, Pumping Alkaline, Foaming or Feeding Material
Powering: 220Vac/50-60Hz., 3-Phase
Air Source: 2~3Kg/cm² (for the Fermentor) 5~6Kg/cm² (For
 Pneumatic Valves)
Water Source: 1.5~2.5Kg/cm²
Steam Source: 2.5~4Kg/cm²
Auto-Lifting Headplate: Mechanical Transmission by the
 Motor