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Биореакторные сосуды



proSET A series Vessels

SKU: CSFS-V-A

Thermostatically controlled double jacketed vessels

The proSET **A series** are thermostatically controlled double jacketed vessels manufactured from high quality borosilicate glass with dish shaped bases. The headplates are constructed in stainless steel, with all wetted parts at 316L grade. The A series has excellent temperature uniformity across the vessel, making it particularly suitable for temperature sensitive cell types. The dish base can be combined with pitched blade style impellers to give an excellent system for cultivating shear-stress sensitive cells. The vessels range from 0.5 ml to 10 L maximum working volume.

This unit has a 12 month limited warranty, for more information, consult our terms and conditions.



proSET B Series Vessels

SKU: **CSFS-V-B**

Single walled dish bottomed vessels

The proSET **B series** are single walled dish bottomed vessels that can be configured either with or without an electrically controlled dry heating blanket. With a 2:1 H:W ratio they provide optimal aeration and mixing of the process cells and can be configured with rushton impellers for microbial fermentation. An internal cooling coil provides cooling for exothermic processes. These vessels are available in maximum working volumes from 1 L up to 20 L

This unit has a 12 month limited warranty, for more information, consult our terms and conditions.



proSET C series Vessels

SKU: **CSFS-V-C**

Air lifter vessel

The proSET **C series** vessels have been specifically designed for cell types that are extremely sensitive to shear stress. Following a design commonly known as the air lifter, the C series vessels use a microsparger, in the absence of rotating impellers,

to provide the mixing force. This method provides much lower shear stress while maintaining suitable aeration for the process cell line. C series vessels feature a 3:1 H:W Ratio for improved mixing and an adjustable draft tube. They are the perfect system for use with the proSET Photobioreactor module. Vessels are available in 5L sizes, with either single or double jacketed options.

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proSET D Series Vessels

SKU: **CSFS-V-D**

Single wall plain bottom vessel

The proSET **D series** vessels are the perfect solution for economical cultivation of micro-organisms such as E. coli and Yeast. Utilising a dry-heating base, with a flat bottom vessel. They combine excellent mixing and aeration with an effective heating system at an affordable cost. The integrated cooling coil prevents overheating from the base or metabolically generated heat. The clear glass vessel makes for easy observation of the fermentation process, and is compatible with external cell density probes such as the Buglab BE2100. These vessels are available in sizes of 3 L, 5 L and 10 L

This unit has a 12 month limited warranty, for more information, consult our terms and conditions.



Solid State Fermentation System for 5L Double Jacketed Vessel

SKU: CSFS-07-SA05P

- 10.4" large colour touch-screen & graphical user Interface, easy to operate
- Automatic vessel angle control mechanism from vertical to horizontal perfectly suitable
- for Simultaneous Saccharification and Fermentation research
- Typical applications covers enzymatic hydrolysis research with Lignocellulosic material and Ganoderma solid status research
- Temperature control environment
- Various optional impeller choices and aeration of the material available

Solid state fermentation (SSF) can be used for enzyme, antibiotics, biofuel, and organic acid production in the food, pharmaceutical, cosmetic, industries, etc. One of the features for Solid state fermentation is to create low water level cultivating conditions for fungus, mold, filamentous fungi, and some bacteria growth. This Solid State Fermentation system is designed for the laboratory scale research to get excellent results. It features a 10.4" color touch screen, user-friendly interface and 4 built-in peristaltic pumps on the Linux based operation system. An automatic vessel angle control mechanism provides an outstanding mixing efficiency for solid state material research. This system is suitable for both aerobic and anaerobic fermentation with three kinds of impellers available (Broken, Anchor and Spiral type).

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