



2018 Catalogue



Innovative Life Sciences Tools

**Optional Devices & Accessories
for Bioreactor / Fermentor**

Vessel Application

Application	Vessel	FS-V-A series	FS-V-B series	FS-V-C series	FS-V-B series	FS-V-D series	FS-V-SA05P
		Double Jacketed Dish Bottom Vessel	Single Wall Dish Bottom Vessel	Air Lifter Vessel	Single Wall Dish Bottom Vessel with Heating Blanket	Single Wall Plain Bottom Vessel with Heating Base Unit	Solid State
Mammalian Cell Culture		● ●	● ○	○ ○	● ○	○ ○	○ ○
Aerobic Microorganism Culture (Note 1)		● ●	● ●	● ●	● ●	● ●	○ ○
Micro-aerobic Microorganism Culture (Note 2)		● ●	● ●	○ ○	● ●	● ●	○ ○
Anaerobic Microorganism Culture (Note 3)		● ●	● ●	○ ○	● ●	● ●	○ ○
Fragile Cell Culture (Note 4)		● ●	● ○	● ●	● ○	○ ○	○ ○
Photosynthesis Cell Culture (Note 5)		● ○	● ●	● ●	○ ○	● ○	○ ○
Plant Cell Culture		● ○	● ○	● ●	○ ○	○ ○	○ ○
Insect Cell Culture		● ●	● ○	○ ○	● ○	○ ○	○ ○
Solid State / Semi-solid State		○ ○	○ ○	○ ○	○ ○	○ ○	● ●

● ● Excellent ● ○ Good ○ ○ Not recommended

Note:

1. Some bacteria; yeast; fungi

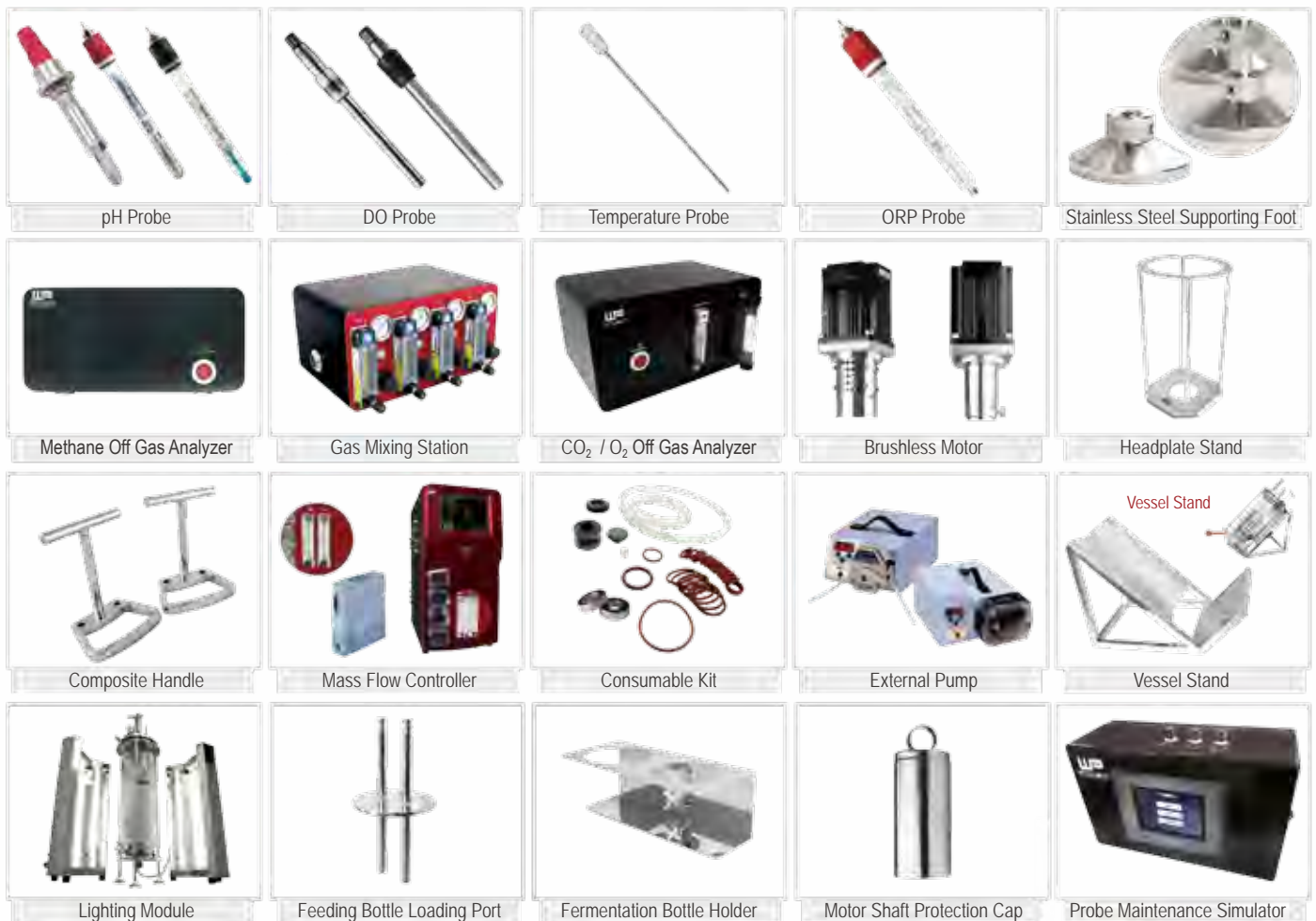
2. Facultative culture (For example, some Lactobacillus; ethanol production)

3. Same as Note 2

4. This vessel is excellent for fragile cells that are easily sheared by any type of mechanical impeller

5. Plant; algae; cyanobacteria (blue-green algae)

Optional Devices and Accessories



Other Optional Devices:

- Antifoam Probe
- Impellers
 - Rushton 6 Blade Impeller
 - Pitched Blade Impeller
 - Foam Breaker Impeller
 - Broken Type Impeller (5L only)
 - Anchor Type Impeller (5L only)
 - Spiral Type Impeller (5L only)
- Sampling Devices
 - Triport Sampling Device
 - Dual Ports Sampling Device
 - Ball Valve Sampling Device
 - Pneumatic Sampling Device
- EZScript Software
- Optical Density Sensor Modules
- Quad Loading Port
- Stainless Steel Condenser
- Protective Double Jacket 5 Liter Vessel Cover In Sterilization



*Please contact Major Science for more information on Other Optional Devices.

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