



Innovative Life Sciences Tools



2019-2020 BROCHURE

*Optional Devices
& Accessories*



Vessel Application



















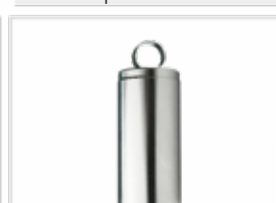

Application	Vessel	FS-V-A series	FS-V-B series	FS-V-C series	FS-V-B series	FS-V-D series	FS-V-SA05P
		Double Jacketed Dish Bottom Vessel	Single Wall Dish Bottom Vessel	Air Lifter Vessel	Single Wall Dish Bottom Vessel with Heating Blanket	Single Wall Plain Bottom Vessel with Heating Base Unit	Solid State
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 (i.e. some Lactobacillus; ethanol production)
3. Same as Note 2
4. This vessel is excellent for fragile cells, which easily sheared by any type of mechanical impeller
5. Plant; algae; cyanobacteria (blue-green algae)

Optional Devices and Accessories

				
pH Probe	DO Probe	Temperature Probe	ORP Probe	Cell Density Probe
				
Methane Off Gas Analyzer	Gas Mixing Station	CO ₂ / O ₂ Off Gas Analyzer	Brushless Motor	Mass Flow Controller
				
Consumable Kit	External Pump	Lighting Module	Composite Handle	Vessel Stand
				
Headplate Stand	Feeding Bottle Loading Port	Fermentation Bottle Holder	Motor Shaft Protection Cap	Stainless Steel Supporting Foot

Other Optional Devices:

- Antifoam Probe
- Impellers
 - Rushton 6 Blade Impeller
 - Pitched Blade Impeller
 - Foam Breaker
 - Broken Type Impeller (solid state only)
 - Anchor Type Impeller (solid state only)
 - Spiral Type Impeller (solid state 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 Cover for Sterilization (solid state only)



*All technical specifications are subject to change without notice.

*Please visit our website at www.majorsci.com for more product selection and detailed information.

*Please contact Major Science for more information on other optional devices.



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