



# 2018 BROCHURE



**Optional Devices & Accessories**

## Vessel Application





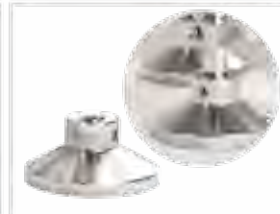









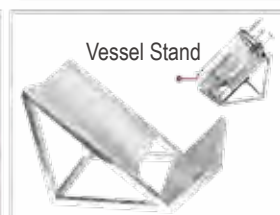


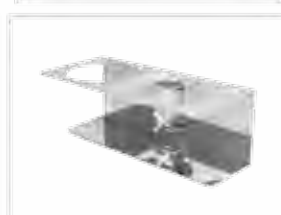


Application	Vessel	FS-V-A series	FS-V-B series	FS-V-C series	FS-V-B series	FS-V-D series	FS-V-SA05P
		Double Jacketed Dish Bottom Vessel	Single Wall Dish Bottom Vessel	Air Lifter Vessel	Single Wall Dish Bottom Vessel with Heating Blanket	Single Wall Plain Bottom Vessel with Heating Base Unit	Solid State
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 (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

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

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



\*All technical specifications are subject to change without notice.

\*Please visit our website at [www.majorsci.com](http://www.majorsci.com) for more product selection and detailed information.

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

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