



# 2024 BROCHURE



**Winpact Chiller**

*Innovative Life Sciences Tools*

**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-SA series
		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)

**Utility Equipment**

**NEW**

**Winpact Chiller, WCC-100/101**



The Winpact Chiller series is Major Science's newest addition to the bioprocessing technology portfolio to provide precise temperature control and excellent cooling performance for your fermentation needs and beyond. The recirculating chillers are compactly designed and require very little space; the built-on wheels offer an added bonus of mobility to any space-conscious labs. With a low procurement cost, it is your best option to stray away from costly tap water and is the perfect alternative for basic cooling needs.

- Compact design
- Overheat protection
- LED display with PID control of 0.1°C resolution
- Self-diagnosed abnormality function
- Delayed resume compressor protection
- Jetstream forced-flow circulation

**Ordering Information**

Cat. No.	Product Description
WCC-100	Winpact Chiller, 110V
WCC-101	Winpact Chiller, 220V

Digital controller for easy operation



Cat. No.	WCC-100	WCC-101
Display	LED Display	
Temperature control range	0°C to +100°C	
Temperature stability	± 0.5°C at 20°C	
Temperature accuracy	± 0.5°C at 20°C	
Controller	PID control, PT100 sensor	
Setting / display resolution	± 0.1°C	
Cooling capacity (Medium Ethanol)	1900 BTU/h @ 0°C	
Pump capacity flow rate (L/min)	5.5 L/min	
Hydraulic head	2.5 meter	
Pump capacity flow pressure (bar)	0.19 bar	
Pump connections	1/4" silicone tubing	
Barbed fittings diameter (inner dia. / mm)	6.35 mm or 1/4"	
Bath capacity	10 L	
Refrigerant	CFC free refrigerants-R134a	
Operating temperature	+20°C~+40°C	
Operating humidity	Max.80%	
Rated voltage	110V; 60Hz, 14.5A	220V; 50Hz, 8A
Chamber material	304 stainless steel	
Bath inner dimension	(W x L x H) 9.25"x11.61"x5.90" (235x295x150 mm)	
External material	Powder coating	
Compressor	1/4 HP	
Dimension	(W x L x H) 13.39"x22.04"x26.38" (340x560x670 mm)	
Weight	Approx. 110.2 lb (50 kg)	
Safety device	- Self-diagnosed abnormality display - Electronic overheating thermal fuse protection in increments of 0.1°C - Delayed resume compressor protection	
Circulation volume	Cycles up to 5.5 L/min cooling system with delayed resume protection after power outage	
Circulation type	Jet stream flow forced circulation, can be accessed through the outer loop	
Power	1000W	

\* All images are for reference only, actual products might differ from the pictures above.  
\* Technical specifications subject to change without notice.

**Taiwan Office**

No. 156, Sec. 1, Guoji Rd., Taoyuan Dist.,  
Taoyuan City 33061, Taiwan  
T/+886-3-3762878  
F/+886-3-3761310

**US Office**

19959 Sea Gull Way  
Saratoga, CA 95070  
U.S.A.  
T/ +1-408-366-9866  
F/ +1-408-446-1107

**Shanghai Office**

Room 612, International business exhibition center,  
9300 Hunan Road, Pudong, Shanghai, China  
National toll-free No.:400-823-9177  
T/ +86-21-50795277  
F/ +86-21-50795277

**India Office**

D.No.7-143, 2nd Floor,  
St.No.2,Nagendra Nagar,  
Habsiguda, Hyderabad-500007.  
India  
T/ +91-40-27001515  
T/ +91-40-27001586

