

SP FTS Maxi-Cool™

Midsized Recirculating Chillers

Features & Benefits

- Compact chiller designed for continuous operation
- Temperature range of -38 °C to +75 °C
- Fast cool down rates, ambient to -35 °C in less than 20 minutes
- Optimal heat removal capacity with quick ramping capability to decrease test time
- Mechanical refrigeration meets the requirements for a large variety of applications without the need for expendable cryogens such as liquid nitrogen or dry ice
- Precise temperature control and stability
- RS232 interface allows remote control and data collection
- Portable, caster-mounted
- Available in water cooled or air cooled configurations
- Centrifugal or positive displacement pump options available



Fluid Selection Tip

For best pumping or stirring results, choose a fluid medium with a kinematic viscosity of 20 centistokes or less over the full operating temperature range. Remember, the heat exchanger in the recirculating cooler may be several degrees colder than your process.

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Model Specifications

Model		RC100	RC100LT	RC150
Heat Removal (Watts/BTUs)	+20 °C	3800/12970	2800/9550	5000/17075
	+10 °C	3000/10240	2100/7175	4200/14335
	0 °C	2000/6825	1500/5120	3000/10240
	-10 °C	1250/4260	1150/3920	2000/6820
	-12 °C	-	-	1700/5800
	-15 °C	700/2390	1000/3415	-
	-20 °C	-	800/2725	-
	-30 °C	-	400/1365	-
Temperature Range °C		-15 °C to +35 °C	-38 °C to +35 °C	-15 °C to +35 °C
Reservoir	Liters	4	4	4
Compressor		1 hp	1 hp	1 1/2 hp
Controller Interface (RS232) ¹	-	Digital Deluxe Digital	Digital Deluxe Digital	Digital Deluxe Digital
Control Stability ²	± °C	0.1	0.1	0.1
Heater (w/ Deluxe Digital Controller)		75 °C/1500W	75 °C/1500W	75 °C/1500W
Heater (nominal 240V)		1500W to +75 °C	1500W to +75 °C	1500W to +75 °C
Pump: Standard - Centrifugal		4gpm @ 10PSI	4gpm @ 10PSI	4gpm @ 10PSI
Option: Positive Displacement ³		1.6gpm up to 85PSI	1.6gpm @ 85PSI	1.6gpm @ 85PSI
Option: Positive Displacement ⁴		3.6gpm up to 85PSI	3.6gpm up to 85PSI	3.6gpm up to 85PSI
Dimensions (w x d x h)	cm	45.7 x 61 x 96.5	45.7 x 61 x 96.5	45.7 x 61 x 96.5
	inches	18 x 24 x 38	18 x 24 x 38	18 x 24 x 38
Weight	kg / lbs	113 / 250	113 / 250	113 / 250
Electrical (without heat option) ⁵		208-230V/60Hz/11A	208-230V/60Hz/11A	208-230V/60Hz/11A

Specifications noted above are dependent on fluid choice, fluid temperatures, ambient temperature and electrical supply. Please contact the factory to further discuss your requirements.

¹ Deluxe Digital Controller includes heater, add 7A to electrical requirement

² Process dependent

³ Using 1.6gpm/100PSI pump option, decrease heat removal by 90 watts.

⁴ Using 3.6gpm/100PSI pump option, decrease heat removal by 135 watts.

⁵ 220V/50Hz also available. Decreases heat removal by 17%

Additional Options

Deluxe Digital Controller

Provides additional safeties, including Low Fluid Level, Low Flow and Over-Temp with contact closure for external alarms. Also includes external RTD for remote temperature control and monitoring, and auxillary heater for rapid transition to +75 °C.

High Pressure Bypass

Limits the maximum pressure to which your process equipment will be exposed. Mounted externally between the chiller inlet and outlet. Includes 0-160 psi gauge (minimum setting 5 psi).



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