

SP FTS RS Series

Benchtop Recirculating Chillers

Features & Benefits

- Wide temperature range of -40 °C to +75 °C (with auxiliary heater)
- Small compact size for benchtop or under counter operation
- Optimal heat removal capacity with quick ramping capability to decrease test time
- Mechanical refrigeration meets the requirements for variety of applications without need for expendable cryogenics such as liquid nitrogen or dry ice
- Precise temperature control and stability
- RS232 interface allows remote control and data collection
- Caster mounted for easy mobility
- 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		RS33	RS33LT	RS44	RS44LT
Heat Removal (Watts/BTUs)	+20 °C	1050/3580	350/1195	1410/4805	504/1718
	+10 °C	880/3005	340/1160	1230/4190	450/1534
	0 °C	760/2595	330/1125	1050/3580	405/1381
	-10 °C	560/1915	285/970	-	370/1261
	-15 °C	-	280/955	-	360/1227
	-20 °C	-	275/938	-	330/1125
	-30 °C	-	195/665	-	285/971
	-40 °C	-	60/205	-	130/443
Temperature Range °C		-10 to +35	-40 to +35	-10 to +35	-40 to +35
Reservoir	Liters	2	2	2	2
Controls	Standard	Digital/RS232	Digital/RS232	Digital/RS232	Digital/RS232
Control Stability ¹	± °C	0.1	0.1	0.1	0.1
Heater (Optional)		600W to +75 °C	600W to +75 °C	-	-
Pump: Standard - Centrifugal Option: Positive Displacement ²		2 gpm @ 4 psi 1.6 gpm up to 85 psi	2 gpm @ 4 psi 1.6 gpm up to 100 psi	2 gpm @ 4 psi 1.6 gpm up to 100 psi	2 gpm @ 4 psi 1.6 gpm up to 100 psi
Dimensions (w x d x h)	cm	33 x 53 x 48	33 x 53 x 48	33 x 53 x 48	33 x 53 x 48
	inches	13 x 21 x 19	13 x 21 x 19	13 x 21 x 19	13 x 21 x 19
Weight	kg / lbs	36 / 80	36 / 80	41 / 90	41 / 90
Electrical (Without Heat Option) ³		120V/60Hz/10A	120V/ 60Hz/10A	208-230V/60Hz/8A	208-230V/60Hz/8A

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

¹Process dependent

²Using 1.6 gpm/100 PSI pump option, decrease heat removal by 90 watts

³220V/50Hz also available; decreases heat removal by 17%

Additional Options & Accessories

Model	Description
HPB1	External high pressure bypass*
TYTB-25	1/2" ID tygon tubing, 25' with 2 brass barbed fittings for RS25-RS44
SRTI-37-20	3/8" ID silicone tubing with 1/2" insulation, 20 ft
HT-30	Heat transfer fluid, -70 °C to +75 °C, Syltherm XLT

* 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).

Optional Novac™ and PAO fluid compatible chiller configurations available upon request.



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