

Recirculating Chillers



Model LS2500-60-208230-1

- Optimized for demanding applications
- Reliable, easy to maintain, and easy to use
- Wide range of cooling capacities

Recirculating chillers from Lake Shore offer high performance for improved cooling capacity for your Hall measurement system, VSM/AGM, probe station, or electromagnet application.

To see what chiller is recommended for your application, find your system configuration in the first column of either the 60 Hz operation or the 50 Hz operation table.

See the individual system user guide for water flow rate and water pressure drop requirements.

Always use a flow restrictor or manual valve in the CCR compressor line to control coolant flow.

Please note: chiller power specifications listed are for 100% duty cycle. Many common magnet testing applications such as hysteresis loops will not require as much cooling power. Please consult Lake Shore for chiller recommendations for your specific applications.

60 Hz operation

| Lake Shore system model/series | Recommended Lake Shore chiller model 208 to 230 V | Requires separate purchase of RC-KIT-FLOWCONTROL |
|-----------------------------------|--|---|
| 2902/3902 (1,500 W) | LS2500-60-208230-1 2,500 W, 1-phase | No |
| Model 643 (2,000 W) | | |
| EM-4 electromagnet (2,500 W) | | |
| CRX-6.5K (3,200 W) | | |
| 7404-S (4,250 W) | LS5000-60-208230-1 5,000 W, 1-phase | No |
| 8404 (4,250 W) | | |
| EMPX-H2 (4,250 W) | | |
| 2904/3904 (5,400 W) | | |
| Model 648 (6,000 W) | LS7500-60-208230-3 7,500 W, 3-phase | No |
| 7404-S with CCR (7,450 W) | | |
| 8404 with CCR (7,450 W) | | |
| EM-7 electromagnet (8,300 W) | | |
| CRX-4K (9,000 W) | LS10000-60-208230-3 10,000 W, 3-phase | No |
| 8425 with probe station (9,000 W) | | |
| CRX-EM-HF (13,250 W) | | |
| 7407-S (13,400 W) | | |
| 7410-S (13,400 W) | LS15000-60-208230-3 15,000 W, 3-phase | Yes |
| 8407 (13,400 W) | | |
| 7407-S with CCR (16,600 W) | | |
| 7410-S with CCR (16,600 W) | | |
| 8407 with CCR (16,600 W) | LS20000-60-208230-3 20,000 W, 3-phase | Yes |

50 Hz operation

| Lake Shore system model/series | Recommended Lake Shore chiller model | | | Requires separate purchase of RC-KIT-FLOWCONTROL |
|-----------------------------------|--|--|--|--|
| | 200 V | 230 V | 400 V | |
| 2902/3902 (1,500 W) | LS2200-50-200-1 2,200 W, 1-phase | LS2200-50-230-1 2,200 W, 1-phase | Not available | No |
| Model 643 (2,000 W) | | | | |
| EM-4 electromagnet (2,500 W) | | | | |
| CRX-6.5K (3,200 W) | | | | |
| 7404-S (4,250 W) | LS4400-50-200-1 4,400 W, 1-phase | LS4400-50-230-1 4,400 W, 1-phase | Not available | No |
| 8404 (4,250 W) | | | | |
| EMPX-H2 (4,250 W) | | | | |
| 2904/3904 (5,400 W) | | | | |
| Model 648 (6,000 W) | Not available | Not available | LS6425-50-400-3 6,425 W, 3-phase | No |
| 7404-S with CCR (7,450 W) | | | | |
| 8404 with CCR (7,450 W) | | | | |
| EM-7 electromagnet (8,300 W) | | | | |
| CRX-4K (8,500 W) | Not available | Not available | LS8500-50-400-3 8,500 W, 3-phase | Yes |
| 8425 with probe station (8,500 W) | | | | |
| CRX-EM-HF (12,750 W) | | | | |
| 7407-S (13,400 W) | | | | |
| 7410-S (13,400 W) | Not available | Not available | LS12525-50-400-3 12,525 W, 3-phase | Yes |
| 8407 (13,400 W) | | | | |
| 7407-S with CCR (16,600 W) | | | | |
| 7410-S with CCR (16,600 W) | | | | |
| 8407 with CCR (16,600 W) | Not available | Not available | LS16700-50-400-3 16,700 W, 3-phase | Yes |

Ordering information

60 Hz chillers

| | |
|---------------------|---------------------------|
| LS2500-60-208230-1 | 2.5 kW, 208–230 V chiller |
| LS5000-60-208230-1 | 5 kW, 208–230 V chiller |
| LS7500-60-208230-3 | 7.5 kW, 208–230 V chiller |
| LS10000-60-208230-3 | 10 kW, 208–230 V chiller |
| LS15000-60-208230-3 | 15 kW, 208–230 V chiller |
| LS20000-60-208230-3 | 20 kW, 208–230 V chiller |

Accessories

RC-KIT-FLOWCONTROL Flow bypass kit

50 Hz chillers

| | |
|------------------|------------------------|
| LS2200-50-200-1 | 2.2 kW, 200 V chiller |
| LS2200-50-230-1 | 2.2 kW, 230 V chiller |
| LS4400-50-200-1 | 4.4 kW, 200 V chiller |
| LS4400-50-230-1 | 4.4 kW, 230 V chiller |
| LS6425-50-400-3 | 6.4 kW, 400 V chiller |
| LS8500-50-400-3 | 8.5 kW, 400 V chiller |
| LS12525-50-400-3 | 12.5 kW, 400 V chiller |
| LS16700-50-400-3 | 16.7 kW, 400 V chiller |

All specifications are subject to change without notice