

LK-10 Light Capacity Chiller Air Cooled for Low Load

You can avoid costly tap water usage for your water cooled equipment with our most compact system, the LK-10.

Designed for table top or floor usage this air cooled chiller provides all the features required for temperature control and clean coolant circulation.

The LK-10 utilizes an absolutely CFC-free, environmentally-friendly refrigeration system with compressor hot discharge gas bypass. This eliminates the need for compressor cycling and maintains process stability to $\pm 0.1^{\circ}\text{C}$. Our optional PID microprocessor controller features simultaneous display of process temperature and setpoint, as well as cooling status. The controller front panel keys may be locked for security. Coolant pressure and level status are also displayed on the front panel. To facilitate computer control and data logging, the LK-10 may also be equipped with a digital communications interface.



Applications

- Lasers (CO₂, Yag)
- Surface Mount
- Power Supplies
- Spectrophotometer
- Electron Microscopes
- Analytical Instruments
- General Laboratory
- Wet Benches
- Plasma Cleaning

Specifications

Temp. Control Range	5 to 35°C
Stability	$\pm 0.5^{\circ}\text{C}$ standard, $\pm 0.1^{\circ}\text{C}$ optional
Cooling Capacity (BTU/hr)	2500 @ 20°C
Condenser Cooling	Air Cooled
Reservoir Volume (gallons)	1.3
Recirculating Capacity (see Pump Curves)	C1, R1, R2
Power Requirements* (Volts, \emptyset , Hz)	115, 1, 60 208-230/200, 1, 60/50
Dimensions W x H x D (Inches)	13 x 15-1/2 x 20-1/2
Available Options	Flow switch , Pressure relief valve, Lockable casters, Digital temperature controller, All stainless steel and polymeric wetted parts, RS-485 communications, Temperature alarm

LK-20 Series Portable Dependable Temperature Control and Coolant Circulation

Tek-Temp Instruments LK-20 Series portable chillers feature a low-profile design that permits location where other chillers simply won't fit. These models have the perfect combination of compact size, reliable performance, and exceptional flexibility that makes them ideal for OEMs and for end-users.

A high-efficiency refrigeration system boosts cooling capabilities, while available all-stainless steel plumbing and cabinets offer superior compatibility with process fluids and operating environments. Self-contained and tethered controllers provide stability to $\pm 0.1^{\circ}\text{C}$, and constructions are available that are designed specifically for use with third-party temperature system controls, i.e. wet-station controls.

Numerous I/O is available to interface with critical process equipment.



Features and Benefits

- Low profile cabinet design
- Only 15" high (17 1/8" with casters)
- Environmentally-friendly refrigeration system
- Removable temperature controller & indicators
- Highly efficient stainless steel evaporator
- Available in external controller versions
- Cooling ratings up to 4800 BTU/HR
- Industrial grade pumps

Specifications

Available Cooling Capacities (BTU/hr) @ 20°C	3,000 (LK-20VA) / 4,800 (LK-20)
Temp. Control Range	5 to 35°C (to 80° with heater options)
Condenser Cooling	Air-Cooled
Tank Volume	1 Gallon
Available Pumps	C1-C2, R1-R2, P31
Power Requirements* (Volts, Ø, Hz)	115v, 1Ø, 60Hz or 208-230/200v, 1Ø, 60/50 Hz
Dimensions	LK-20VA: 17 3/8"W x 15"H x 17 1/8"D LK-20: 17 3/8"W x 15" x 28 3/8"D (17 1/8"H with Casters)

RK-19 Rack Mount Rack-Mounted Convenience

Tek-Temp Instruments, new RK-19 rack mount chiller replaces tap water usage in your water-cooled equipment with the industry's most compact system, providing 2500 BTU/Hr (733 watts) of cooling and all of the features necessary for dependable temperature control and coolant circulation.

This new air-cooled model utilizes an absolutely CFC-free, ozone protective refrigeration system with hot gas bypass to maintain stability to $\pm 0.1^{\circ}\text{C}$ over the coolant temperature control range of 5 to 35°C .

The microprocessor controller features simultaneous display of process temperature and set point. The set point is adjustable by pressing the front panel touch keys. To facilitate computer control and data logging the RK-19 may be equipped with an RS-485



Applications

- Lasers
- Vacuum Systems
- Power Supplies
- Machine Cooling
- Electron Microscopes
- Ion Etchers
- General Laboratory

Specifications

Temp. Control Range	5 to 35°C
Stability	$\pm 0.5^{\circ}\text{C}$ standard, $\pm 0.1^{\circ}\text{C}$ optional
Cooling Capacity (BTU/hr)	2500 @ 20°C
Condenser Cooling	Air Cooled
Reservoir Capacity (gallons)	.75
Recirculating Capacity (see Pump Curves)	R1, R2, C1
Power Requirements* (Volts, \emptyset , Hz)	115, 1, 60 208-230/200, 1, 60/50
Dimensions W x H x D (inches)	19 x 10-1/2 x 20
Available Options	Flow switch , Pressure relief valve, Lockable casters, Microprocessor control, All stainless steel and polymeric wetted parts, RS-485 communications, High or low temperature alarms

TKD-100 Series Moderate Capacity with Air Cooled Condenser

If your requirements call for a rugged recirculating chiller that's dependable, economical and simple to operate, the TKD-100 Series is your best solution. These compact, single-channel chillers feature CFC-free refrigeration systems with compressor hot discharge gas bypass. Our standard digital display temperature controller offers display of process/setpoint temperature and provides stability to $\pm 1.0^{\circ}\text{C}$.



The TKD-100 Series Chillers' circulating pump and compressor motors are all thermally protected. Standard features include a liquid filled pressure gauge to indicate recirculating coolant outlet pressure and locking casters for easy portability. Filling of the coolant reservoir is easily accomplished through the top of the system. The quickly removable top and side panels simplify maintenance.

The TKD-100's heavy-duty circulating pumps ensure continuous, reliable operation. A variety of pumps are available to meet almost any application, from positive displacement rotary vane types to regenerative turbine types. Our engineers will be happy to assist in selecting the pump most suitable for your application.

Applications

- Computers
- Vacuum Systems
- Cold Trap
- Plasma & Sputtering Systems
- X-ray Spectroscopy Systems
- Ion Etchers
- Machine Cooling
- Injection Molding Equipment
- General Cooling Applications

Specifications

Cooling Capacity (BTU/hr) @ 20°C	4,000	7,000	10,000	15,000	22,000	34,000
Temp. Control Range	5 to 35°C					
Stability	$\pm 1.0^{\circ}\text{C}$					
Condenser Cooling	Air Cooled					
Reservoir Volume (gallons)	2.5		8.0			
Recirculating Capacity (see Pump Curves)	C1, R2, T1		C1, R3, T1, T2		R3, T1, T2, T3, C50, C150	
Power Requirements* (Volts, Ø, Hz)	208-230/200, 1, 60/50				208-230/200-240, 3, 60/50	
Dimensions W x H x D (inches)	16-1/2 x 30-1/4 x 24		21-1/2 x 35-3/4 x 28-5/8		45 x 38 x 30	
Available Options	Coolant level switch, Flow/pressure adjustment valve, Pressure relief valve					