



RECIRCULATING CHILLER DL SERIES

Recirculating Chiller DL Series is commonly used to maintain consistent low-temperature conditions for inspections, as well as chemical, biological, and physical experiments requiring a controlled cold environment. They are primarily utilized in the fields of medicine, healthcare, food processing, the chemical industry, and academic research.

APPLICATIONS

The Torontech DL Series Recirculating Chiller is designed to provide a stable and reliable source of low-temperature fluid for any application requiring precise thermal control. By actively removing heat from a process or instrument, it ensures operational stability, enhances performance, and protects temperature-sensitive equipment, making it an essential component for any modern laboratory or industrial process.

This critical cooling capability is indispensable for ensuring accuracy and reliability in:

- **Analytical Instrumentation:** For providing essential cooling to heat-generating instruments such as ICP-MS, Atomic Absorption Spectrophotometers (AAS), rotary evaporators, and electron microscopes, ensuring stable operating conditions for maximum analytical precision and instrument longevity.
- **Chemical & Pharmaceutical Synthesis:** To precisely control the temperature of jacketed reactors and synthesis vessels, which is critical for managing exothermic reactions, maximizing product yield, and ensuring the purity and stability of the final compound.
- **Biotechnology & Fermentation:** For maintaining the optimal low-temperature environment required for cell cultures in bioreactors and fermenters, which is essential for maximizing cell viability and the yield of temperature-sensitive proteins and biological products.
- **Industrial & Laser Systems:** To provide the continuous, high-efficiency cooling required for high-power lasers, welding equipment, and vacuum pumps, protecting critical components from thermal damage and ensuring consistent, reliable performance in demanding production environments.

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FEATURES

- **Applications in Chemistry and Biology:** Ideal for use with biological fermenters, chemical synthesis vessels, and more.
- **High-Quality Components:** Equipped with compressors from globally recognized brands to ensure low noise, exceptional reliability, steady performance, and a long lifespan.
- **Closed Circulation System:** A fully sealed system prevents bath fluid from evaporating or becoming contaminated.
- **Integrated Filters:** Built-in filters in the circulation hose reduce the risk of blockages.
- **Eco-Friendly Refrigerant:** Uses CFC-free refrigerants that comply with international environmental standards.
- **Compact and Stylish Design:** Features a sleek, space-efficient design.
- **Liquid Level Monitoring:** Includes a liquid level indicator for easy assessment of remaining bath fluid.
- **Pressure Gauge:** A pressure gauge near the fluid outlet allows for convenient measurement of bath fluid pressure.
- **Versatile Models:** Available in multiple configurations to suit diverse requirements.
- **Easy Maintenance:** Removable side panels enable quick and hassle-free cleaning and servicing.

TECHNICAL SPECIFICATIONS

Model		DL30-300	DL30-700	DL30-1000	DL30-1800
Working temperature range		-30~5℃			
Temperature stability		±2℃			
Voltage		220-240V/60Hz (110V is also available)			
Cooling capacity	0℃	1250W	1750W	2800W	5000W
	-10℃	800W	1100W	1800W	3000W
	-20℃	300W	700W	1000W	1800W
	-25℃	150W	300W	500W	1000W
Refrigerant		R410A			R404A
Bath fluid filling volume		10L	17L	30L	40L
Circulation pump flow rate		20L/min			30L/min
Pressure		0.4 bar			1 bar
Hose connecting size		1/2"			3/4"
Dimensions		435W*690D*720Hmm	465W*690D*820Hmm	495W*760D*860Hmm	635W*1105D*1066Hmm
Net weight		73KG	86KG	108KG	180KG



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