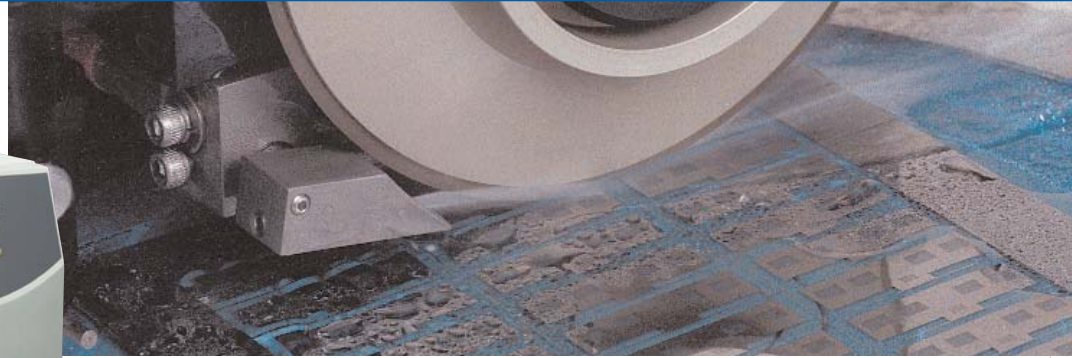


## MODEL 933 RECIRCULATING CHILLER



**O**ur complete line of dicing saws features water-cooled spindles for the prevention of thermal expansion and to help maintain positional accuracy between the blade and workpiece. The use of a recirculating chiller enhances this feature by eliminating fluctuations in temperature, pressure and flow, as well as minerals and particulates that can produce unreliable results and damage to equipment. What's more, a recirculating cooling water system can easily pay for itself by saving millions of gallons of de-ionized or filtered water over the course of each year. The Model 933 Recirculating Chiller utilizes a completely CFC-free refrigerant and is based on an advanced design that allows significantly improved cooling capacity in a small, compact footprint. Additionally, several innovative control features allow easy setup and reliable, trouble-free operation and maintenance.

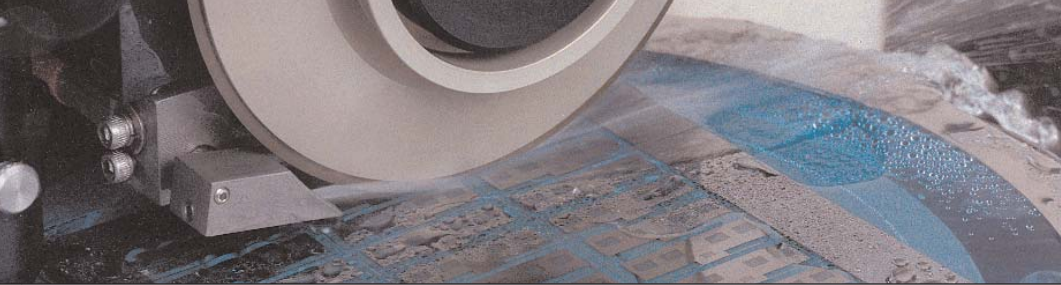
### Superior Design for High Cooling Capacity

The Model 933 is a product of over 37 years of experience in chiller design, engineering and implementation. This system features a unique, easy to view reservoir, allowing the user to view both liquid level and fluid condition at a glance. The reservoir drain allows quick and efficient fluid changes and includes a flow control valve for shut-off, while a removable condenser vent allows easy access for routine cleaning. An integrated internal pressure reducer/flow controller ensures that the spindle receives the proper flow and pressure to prevent damage or variable thermal expansion that could affect dicing accuracy. The Model 933 is constructed of specially selected components with expanded life cycles and that have been exposed to rigorous quality standards. The result is an extremely reliable system that provides exceptional cooling capacity and is covered by a 2-year warranty.

### Highly Functional, Yet Easy to Use

An advanced microprocessor control system allows intuitive operation and includes such standard features as a user adjustable, low and high temperature safety with audible alarm. Users can choose whether they want the chiller to continue in a fault condition or automatically shut down. Additionally, display resolution can be set to 1°C or 0.1°C. Controller options include low fluid level and low flow safety, RS-232 or RS-485 communications, remote start/stop function, and a dry contact status relay.

- 30% More Capacity Than Comparable Systems
- Small Footprint
- Safety Monitors for Temperature and Fluid
- Up to 3.4 gpm @ 60 psi
- Stable to  $\pm 0.1^{\circ}\text{C}$
- Microprocessor Control for Easy Operation
- Durable Design and Construction
- 2-Year Limited Warranty



## MODEL 933 RECIRCULATING CHILLER

### Model 933 Features

- Exceptional cooling capacity under demanding heat load conditions
- Advanced design and materials allow maximum heat removal in a compact, small-footprint package
- Safety monitors for temperature, flow and fluid level
- Delivers up to 3.4 gpm @ 60 psi
- Temperature stability to  $\pm 0.1^{\circ}\text{C}$
- Microprocessor controller allows easy operation and setup
- Durable design and construction, with high-reliability pumps and motors, resulting in 2 year warranty

### Specifications

<b>Temperature Range:</b>	+5°C to +35°C
<b>Stability:</b>	$\pm 0.1^{\circ}\text{C}$
<b>Cooling Capacity:</b>	1250 W @ 20°C/60 Hz 1125 W @ 20°C/50 Hz
<b>Pumping Options:</b>	2.7 gpm @ 7.5 psi 1.6 gpm @ 60 psi 3.4 gpm @ 60 psi
<b>Reservoir Volume:</b>	0.5 gallons/1.8 liters
<b>Power:</b>	115 VAC/60 Hz - 100 VAC/50 Hz 230 V/50 Hz
<b>Dimensions:</b>	12 5/8" W x 20 1/8" D x 23 7/8" H 32.1 cm x 51.1 cm x 60.6 cm
<b>Weight:</b>	150 lbs/68 Kgs

### Product/Process Technical Support

*As part of our line of wafer prep equipment and accessories, the Model 933 Recirculating Chiller is just another example of our commitment to providing the most complete and comprehensive dicing solutions in the industry. Together with our world-renowned expertise in dicing saws, blades, wheels and accessories, ADT can quickly and efficiently analyze your latest, most challenging applications and provide all the tools, equipment and technology you need for the best possible solutions.*

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