



## VWR® Refrigerated Recirculating Chillers 1/4HP to 1HP

VWR International, LLC Refrigerated Recirculating Chillers' patent pending WhisperCool™ technology automatically adjusts the cooling fan speed to match the demand put on the system, making these high performance Recirculating Chillers exceptionally quiet and environmentally friendly.

Typical applications include AA furnaces, condenser cooling, ICP, laser etching, plasma etching, reaction vessels, rotary evaporators, and vacuum systems.

### Key Specifications

Working Temperature: -10°C to +40°C  
 Temperature Stability: ±0.1°C  
 Cooling Capacity @ 20°C: up to 2900W



- Large, dual displays present temperature and pressure or flow rate simultaneously
- Cooling at ambient temperatures as high as 35°C
- Choice of pumps and compressor sizes.
- User-adjustable temperature, pressure, and flow rate alarms
- External temperature tracking and communications capability (optional)

Compressor HP	1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP
<b>Magnetic Drive Centrifugal Pump</b>					
VWR Model Number	1171MD	1173MD	1175MD	1177MD	1179MD
120VAC/60Hz	<b>13271-184</b>	<b>13271-192</b>	<b>13271-200</b>	-----	-----
208-230VAC/60Hz	-----	-----	-----	<b>13271-208</b>	<b>13271-216</b>
<b>Positive Displacement Pump</b>					
VWR Model Number	1171PD	1173PD	1175PD	1177PD	1179PD
120VAC/60Hz	<b>13271-188</b>	<b>13271-196</b>	<b>13271-204</b>	-----	-----
208-230VAC/60Hz	-----	-----	-----	<b>13271-212</b>	<b>13271-220</b>
<b>Turbine Pump</b>					
120VAC/60Hz	<b>97044-090</b>	<b>97044-094</b>	<b>97044-098</b>	-----	-----
208-230VAC/60Hz	-----	-----	-----	<b>97044-102</b>	<b>97044-106</b>

1. Cooling Capacity is based on 20°C (68°F) ambient temperature and a 50/50 mix of ethylene glycol and distilled water as coolant.  
 Note: 240/50 units are available; inquire for catalog numbers.

VWR International • 100 Matsonford Road • Radnor, PA 19087 • USA

Phone: 1.800.932.5000 • www.vwr.com

**1.800.932.5000**  
vwr.com

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## VWR Signature™ Refrigerated Recirculating Chillers

Supplier: VWR International



- High Cooling Capacity
- Digital Temperature Readout in °C or °F
- Digital Pressure/Flow Readout in kPa or psi, L/min. or gpm
- Microprocessor Control in 0.1°C Increments
- VWR Two-Year Limited Parts and Labor Warranty

VWR Signature™ chillers provide a clean, reliable source of temperature-controlled fluid for open tanks and closed loop systems. They eliminate scale buildup, sewerage cost, and tap water cooling expenses.

These 4.1L (1.1gal.) chillers provide high cooling at low cost, have a convenient digital read and set display, and are available in two pump versions. The standard magnetic drive centrifugal pump quietly produces high flow at moderate pressure. Positive displacement pump models provide less flow but have higher adjustable pressure for more demanding applications. The modulating system maintains stable temperatures even under intermittent load conditions. Chillers have a temperature stability of ±0.1°C and are equipped with 1.3cm (1/2") female NPT inlet/outlet fittings and lockable caster wheels. Temperature range: -10 to 40°C (14 to 104°F). Dimensions: 57.5Hx36.8Wx70.2Lcm (22 5/8x14 1/2x27 5/8").

The external pressure reducer steps down higher pressures from 10psi–45psi and is available for positive displacement pumps only. The general-purpose clear bath algicide is compatible with stainless steel and helps keep water baths clean, odor-free, and resistant to black algae. One 237mL (8oz.) bottle treats approximately 757L (200gal.). Supplied in a plastic dispenser bottle. The Dynalene® HC 50 heat transfer fluid provides superior thermal stability for high or low temperatures. Fluid has a temperature range of -53 to 60°C (-63 to 140°F), a -56°C (-68.8°F) freezing point, and a viscosity (in centistokes) of 3.6 at 0°C and 15.1 at -40°C.

Note: Heat transfer fluid is incompatible with Buna or natural rubber.

Ordering Information: Chillers are supplied with two 1.3cm (1/2") NPT x 1.3cm (1/2") HB tubing adapters, two 1.3cm (1/2") NPT x 1.6cm (5/8") HB tubing adapters, and a 2.4m (8') power cord with standard U.S. plug on 120V models, European plug on 240V models. Other country-specific plugs are available; contact your VWR sales representative. Ethylene glycol is available at vwr.com.

CSA certified. CE marked.

Services: WVRCATALYST™ offers validation services including IQ, OQ, and PQ protocol development and execution, as well as asset management and calibration services (US only); call 888-793-2300 for more details.

### RELATED INFORMATION

- Product Literature
  - VWR\_Refrigerated\_Recirculating\_Chillers
  - VWR\_Refrigerated\_Recirculating\_Chillers\_Flyer
  - VWR\_Temperature\_Control\_Equipment\_Brochure

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### Recirculating Chillers with Centrifugal Pump

Electrical	Model	Capacity	Cooling Capacity	Flow Rate	Pressure	VWR Catalog Number	Unit	Price	Quantity
120V, 60Hz, 9.5A	1171MD	4.1 L (1.1 gal.)	800W at 20°C, 500W at 10°C, 200W at 0°C	15.5 L/min. (4.1 gal./min.)	10 psi	13271-184	Each	\$3,947.03	<input type="text" value="0"/>
120V, 60Hz, 13.5A	1175MD	4.1 L (1.1 gal.)	1800W @ 20°C, 1250W @ 10°C, 850W @ 0°C	15.5 L/min. (4.1 gal./min.)	10 psi	13271-200	Each	\$4,670.13	<input type="text" value="0"/>
208/230V, 60Hz, 9.2A	1177MD	4.1 L (1.1 gal.)	2350W @ 20°C, 1550W @ 10°C, 975W @ 0°C	15.5 L/min. (4.1 gal./min.)	10 psi	13271-208	Each	\$5,067.46	<input type="text" value="0"/>
208/230V, 60Hz, 9.5A	1179MD	4.1 L (1.1 gal.)	2900W @ 20°C, 1835W @ 10°C, 1100W @ 0°C	15.5 L/min. (4.1 gal./min.)	10 psi	13271-216	Each	\$5,975.03	<input type="text" value="0"/>
120V, 60Hz, 10.4A	1173MD	4.1 L (1.1 gal.)	1430W @ 20°C, 1000W @ 10°C, 700W @ 0°C	15.5 L/min. (4.1 gal./min.)	10 psi	13271-192	Each	\$4,359.28	<input type="text" value="0"/>

### Recirculating Chillers with Positive Displacement Pump

Electrical	Model	Capacity	Cooling Capacity	Flow Rate	Pressure	VWR Catalog Number	Unit	Price	Quantity
208/230V, 60Hz, 12.2A	1179PD	4.1 L (1.1 gal.)	2900W at 20°C, 1925W at 10°C, 1000W at 0°C	13.2 L/min. (3.5 gal./min.)	20–100 psi	13271-220	Each	\$6,176.05	<input type="text" value="0"/>
120V, 60Hz, 13.1A	1173PD	4.1 L (1.1 gal.)	1400W @ 20°C, 990W @ 10°C, 530W @ 0°C	3.8 L/min. (1 gal./min.)	20–100 psi	13271-196	Each	\$4,383.06	<input type="text" value="0"/>
120V, 60Hz, 12.2A	1171PD	4.1 L (1.1 gal.)	850W @ 20°C, 600W @ 10°C, 400W @ 0°C	3.8 L/min. (1 gal./min.)	20–100 psi	13271-188	Each	\$4,079.82	<input type="text" value="0"/>

120V, 60Hz, 16A	1175PD	4.1 L (1.1 gal.)	1700W @ 20°C, 1150W @ 10°C, 750W @ 0°C	3.8 L/min. (1 gal./min.)	20-100 psi	13271-204	Each	\$4,522.12	<input type="text" value="0"/>
208/230V, 60Hz, 11.9A	1177PD	4.1 L (1.1 gal.)	2300W @ 20°C, 1550W @ 10°C, 875W @ 0°C	13.2 L/min. (3.5 gal./min.)	20-100 psi	13271-212	Each	\$5,202.59	<input type="text" value="0"/>

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**SPECIFICATIONS**

Compressor	1/4 hp			1/3 hp	1/2 hp	3/4 hp	1 hp
Cooling Capacity	2500W at 20°C, 1700W at 10°C, 760W at 0°C	800W at 20°C, 500W at 10°C, 200W at 0°C		2500W at 20°C, 1700W at 10°C, 760W at 0°C			2900W at 20°C, 1925W at 10°C, 1000W at 0°C
Model	1171			1173	1175	1177	1179

**ACCESSORIES**

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**Accessories for VWR Signature™ Refrigerated Recirculating Chillers**

Details	Description	For Use With	VWR Catalog Number	Unit	Price	Quantity
For Chillers with magnetic drive centrifugal pump, Connects to inlet and outlet, allowing bypass flow when application flow is stopped.	External Bypass	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-798	Each	\$72.48	<input type="text" value="0"/>
Package of 2	5 micron Sediment Filter	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-788	Pack of 2	\$33.20	<input type="text" value="0"/>
—	External Pressure Reducer	null	13270-702	Each	\$419.72	<input type="text" value="0"/>
Package of 2	20 micron Sediment Filter	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-786	Pack of 2	\$24.49	<input type="text" value="0"/>
Manifold Kit, 4 ports with shutoffs, Includes instructions and manifold components (hose barbs, mounting bracket, hose clamps)	Manifold Kit for Chillers	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-830	Each	\$443.00	<input type="text" value="0"/>
Package of 2	30 micron Sediment Filter	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-784	Pack of 2	\$32.77	<input type="text" value="0"/>
Includes hardware, installation, and operation instructions	RS232 Retrofit Kit	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-800	Each	\$189.36	<input type="text" value="0"/>
Sediment Filters sold separately	Filter Housing with bracket	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-782	Each	\$302.74	<input type="text" value="0"/>
Manifold Kit, 2 ports with shutoffs, Includes instructions and manifold components (hose barbs, mounting bracket, hose clamps)	Manifold Kit for Chillers	Refrigerated Recirculating Chillers (1/4 HP to 1HP)	89200-828	Each	\$341.30	<input type="text" value="0"/>
—	Ambient Temperature Sensor	Refrigerated Recirculating Chillers (1/4 HP to 1HP) and Liquid-to-Liquid Coolers	89200-780	Each	\$33.60	<input type="text" value="0"/>

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