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## ***Metrohm/Lauda WK 500 Chiller***

Lauda® WK Series Recirculating Chillers

Lauda Recirculating Chillers can replace tap water cooling in any closed-loop system. These compact units eliminate temperature and pressure fluctuations, minimize particle build-up, and improve the efficiency of your processes. Lauda WK Recirculating Chillers may be used in research as well as application technology and production.

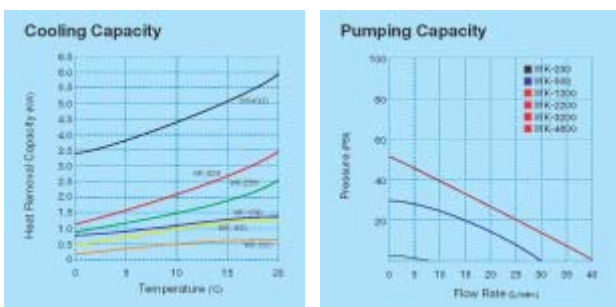
### **Applications**

- Electrophoresis systems
- Condensers
- Graphite furnaces
- Jacketed reactors
- Process cooling
- Turbomolecular pumps
- Electron microscopes
- X-ray equipment
- NMR, AAS, GC/MS, ICP, SEM
- Rotary evaporators
- Soxhlet units
- Lasers

### **Product features**

- Bright LED readout displays actual and set-point temperature
- Automatic over-pressure shutoff protects the refrigeration system
- Built-in pressure reducer allows safe connection to fragile glassware such as rotary evaporator condensers and glass-jacketed reactors (WK-1200, 2200, 3200, 4600, and 7000 only)
- Motor overload protection shuts off compressor and pump in case of an overload

- CFC-free cooling system protects the environment
- Visual liquid-level indicates when liquid in reservoir is at proper level (not on WK-230)
- Economical
- Cooling capacity to 5,800 W
- Temperature control to 0°C
- Compact, 7.9-inch wide model (WK-230)
- Compact models with small footprint feature powerful cooling capability
  - Benchtop WK-230 is ideal for fragile, heat-generating instruments needing lower pressures
  - WK-500 accommodates multiple systems or applications that require greater pressure, e.g. small-diameter tubing
- High-capacity models meet the challenge of applications requiring greater heat removal or higher flow rates due to small-diameter tubing; includes floor-standing WK-1200, 2200, 3200, 4600, and 7000
- RS 232/485 digital interface for automation and computer control is optional and must be noted at time of order



## Technical Specifications

Model	WK-230	WK-500	WK-1200
Voltage	115 V/60 Hz	115 V/60 Hz	115 V/60 Hz
Operating Range (°C)	0 to 40	0 to 40	0 to 40
Control Accuracy (°C)	±0.5	±0.5	±0.5
Cooling Capacity* at 20°C			
- Watts	645	1,295	1,350
- BTU/hr	2,200	4,416	4,604
Refrigerant	R-134a	R-134a	R-134a
Flow Rate at Zero Head	8	30	40

(L/min)				
Max. Discharge Pressure (bar/psi)	0.2/2.2	1/14.5	3.5/51.0	
Pressure Indicator	—	—	Analog	
Pressure Adjustment (bar)	—	—	0 to 6	
Nozzle Size ID/OD (mm)	8/10	10/13	15/19	
Filling Volume (L)	6	12	23	
Dimensions - W x D x H (in.) - W x D x H (cm)	7.9 x 13.8 x 19.7 20 x 35 x 50	13.8 x 18.9 x 23.6 25 x 48 x 60	17.7 x 21.7 x 31.1 45 x 55 x 79	
Total Power Consumption (kW)	0.4	0.9	1.4	
Shipping Weight (lb/kg)	53/24	101/46	165/75	
Model	WK-2200	WK-3200	WK-4600	WK-7000
Voltage	220 V/60 Hz	220 V/60 Hz	230 V/60 Hz , 3 phase	440 V/60 Hz , 3 phase
Operating Range (°C)	0 to 40	0 to 40	0 to 40	0 to 40
Control Accuracy (°C)	±1.0	±1.0	±1.0	±1.0
Cooling Capacity* at 20°C - Watts - BTU/hr	2,460 8,389	3,385 11,543	5,865 20,000	7,000 23,870
Refrigerant	R-134a	R-134a	R-134a	ò
Flow Rate at Zero Head (L/min)	40	40	40	40
Max. Discharge Pressure (bar/psi)	3.5/51.0	3.5/51.0	3.5/51.0	3.2
Pressure Indicator	Analog	Analog	Analog	Analog
Pressure Adjustment (bar)	0 to 6	0 to 6	0 to 6	0 to 6
Nozzle Size ID/OD (mm)	15/19	15/19	15/19	15/19

Filling Volume (L)	23	45	45	45
Dimensions - W x D x H (in.)	17.7 x 21.7 x 31.1	21.7 x 25.6 x 37.4	21.7 x 25.6 x 37.4	33.5 x 26.4 x 38.2
- W x D x H (cm)	45 x 55 x 79	55 x 65 x 95	55 x 65 x 95	85 x 67 x 97
Total Power Consumption (kW)	1.6	2.0	2.9	5.0
Shipping Weight (lb/kg)	192/87	229/104	271/123	379/172

\*1 watt=3.41BTU

\*\*Contact Brinkmann Instruments for information on Recirculating Chillers with 220V/50Hz power requirement.



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