

## Applications

Due to the efficient cooling and constant low temp conditions of the Eins-Sci chillers during chemical, biological or physical experiments, they are ideal for use in a wide range of applications which include but are not limited to:

- Rotary evaporators (1-3L, 5L), reactor systems, bioreactors
- Combinatorial chemistry: reactor blocks, organic synthesis, reaction calorimeters, distillation semiconductor industry
- Distillation systems for mini plants and pilot plants
- Concentrators, Kjeldahl nitrogen analyzer, Soxhlet extractor, electrophoresis tank, calorimeter
- Jacketed reactors, reactors systems and autoclaves for polymerization and polycondensation etc
- Vacuum chambers

## E-RC-L-D Series

### Recirculating Chillers

### Features

- Digital LED external recirculating chillers
- PT100 PID control for high temperature accuracy
- Single point temperature calibration function
- Intuitive liquid level window for easy monitoring
- Pressure/suction pump for open and closed external applications
- Compact models are ideal for placement on a table or in a fume hood
- Optical and acoustic safety warning
- Easy filling and draining with overflow protection
- The removable venting grid allows for easy cleaning of the condenser
- Includes 2 x 1.8m insulated silicone tube (8mm ID x 12mm OD)



Specifications		E-RC0.45-L20-D	E-RC0.7-L20-D	E-RC1.2-L20-D	E-RC1.5-L40-D
Reservoir volume		3L	5L	9L	9L
Temperature control range		-20 to RT-5°C	-20 to RT-5°C	-20 to RT-5°C	-40 to RT-5°C
Cooling capacity	@ 20°C	450W	700W	1200W	1500W
	@ 0°C	300W	520W	900W	1128W
	@ -20°C	70W	200W	450W	537W
	@ -30°C	-	-	-	270W
	@ -40°C	-	-	-	72W
Display		LED	LED	LED	LED
Temperature stability at -10°C		±0.3°C	±0.3°C	±0.5°C	±0.5°C
Refrigerant		R134A	R404A	R404A	R404A
Circulating pump		Yes, External Recirculation			
Pump flow rate		12L/min	22L/min	22L/min	22L/min
Pump pressure		0.2bar	0.3bar	1.0bar	1.0bar
Pump suction		0.1bar	0.2bar	-	-
Drain port		Yes	Yes	Yes	Yes
Pipe connections		Barbed [OD 10mm]			
Insulated pipe included		2 x 1.8m	2 x 1.8m	2 x 1.8m	2 x 1.8m
External dimensions [WxDxH]		220x420x495mm	220x420x495mm	300x480x630mm	300x480x630mm
Material (housing)		Powder Coated Steel			
Material (parts touching liquid)		SUS304 Stainless Steel			
Weight		24kg	27kg	35kg	37.5kg
Cooling power		300W	550W	800W	900W
Power requirements		220V, 50Hz, 300W	220V, 50Hz, 550W	220V, 50Hz, 800W	220V, 50Hz, 900W
Permissible ambient conditions		5-32°C, 80%RH	5-32°C, 80%RH	5-32°C, 80%RH	5-32°C, 80%RH