

## R COOLER OPTIONS

**Digital Temperature Controller.** Provides close temperature control ( $\pm 0.5^{\circ}\text{F}$ ). Displays both set-point and coolant temperature.

**Ambient Tracking Controller.** A dual input digital temperature controller allows the coolant temperature to track ambient temperature at a constant, adjustable differential. Displays both ambient and coolant temperature.

**Optional Pumps.** A variety of pumps are available to meet almost any flow and pressure requirement for both water- and oil-based coolants.

**Low Flow Interlock.** Prevents damage to machine on loss of flow.

**Temperature Fault Interlock.** Indicates coolant temperature is out of range.

**Low Level Interlock.** Indicates coolant level is low.

**Flow Meter/Switch.** Adjusts coolant flow to optimum setting.

**In-Line Heater.** Warms up coolant to optimum operating temperature.

**In-Line Filter.** Insures clean coolant.

**Pure System.** Coolant only comes in contact with stainless steel or plastic.

**Non-Refrigerated Cooler.** Uses central chilled water or ambient air instead of refrigeration. Saves space and maintenance.

**Water-Cooled Condenser.** For use with tower or city water. Removes heat from the work area while saving space and maintenance.

## R COOLER SPECS

MODEL	RATED COOLING CAPACITY*			COMP.	STANDARD PUMP CAPACITY		TANK CAPACITY		STANDARD VOLTAGE	STANDARD DIMENSIONS**						SHIPPING WEIGHT	
	BTU/hr	watts	Kcal/hr		hp	gpm	lpm	gal		ltr	inches			centimeters			lb
WATER										w	d	h	w	d	h		
OC-25R	2500	750	625	1/4	1.6	6	2	7.5	230/60/1	12.5	21	16.5	32	53	42	130	60
OC-33R	3300	970	825	1/3	1.6	6	2	7.5	230/60/1	15.75	20	27	40	51	69	175	80
OC-50R	5000	1760	1500	1/2	2.5	9	4	15	230/60/1	16	26	29	41	66	74	200	90
OC-75R	8000	2350	2000	3/4	4	15	4	15	230/60/1	16	26	29	41	66	74	200	90
OC-100R	12000	3520	3000	1	6	23	10	38	230/60/1	22	30	35	56	76	89	400	180
OC-150R	18000	5280	4500	1 1/2	8	30	10	38	460/60/3	22	30	35	56	76	89	400	180
OC-200R	24000	7040	6000	2	8	30	14	54	460/60/3	28	32	45	71	81	114	550	250
OC-300R	36000	10560	9000	3	12	45	20	75	460/60/3	32	36	56	81	92	144	600	273
OC-400R	48000	14000	12000	4	16	60	32	120	460/60/3	36	50	56	92	127	144	750	320
OC-500R	60000	17600	15000	5	20	75	32	120	460/60/3	36	50	56	92	127	144	850	395
OC-750R	90000	26400	22500	7 1/2	30	112	48	180	460/60/3	36	60	66	92	153	168	1000	460
OC-1000R	120000	35200	30000	10	40	150	60	225	460/60/3	46	74	60	117	188	153	1200	550
OC-1500R	180000	52800	45000	15	60	225	100	375	460/60/3	46	87	78	117	221	198	1500	680
OC-2000R	240000	70400	60000	20	80	300	150	560	460/60/3	46	87	78	117	221	198	2500	1150
OC-2500R	300000	88000	75000	25	100	375	150	560	460/60/3	48	116	78	122	295	198	2500	1150
OC-3000R	360000	105600	90000	30	120	450	200	750	460/60/3	48	116	78	122	295	198	2800	1300
<b>OIL</b>																	
OCO-25R	2500	750	625	1/4	1.5	5.6	4.5	17	230/60/1	16.5	18	39	42	47	99	150	68
OCO-33R	3300	970	825	1/3	1.5	5.6	4.5	17	230/60/1	16.5	18	39	42	47	99	150	68
OCO-50R	5000	1760	1500	1/2	2.5	9.5	4.5	17	230/60/1	18.5	24	40	46	61	102	200	90
OCO-75R	8000	2350	2000	3/4	5	19	4.5	17	230/60/1	18.5	24	40	46	61	102	200	90
OCO-100R	12000	3520	3000	1	8	30	12	45	230/60/1	22	30	46	56	76	117	300	135
OCO-150R	18000	5280	4500	1 1/2	8	30	12	45	460/60/3	22	30	46	56	76	117	350	160
OCO-200R	24000	7040	6000	2	12	45	16	60	460/60/3	28	32	50	71	81	127	550	250
OCO-300R	36000	10560	9000	3	18	68	20	75	460/60/3	32	36	56	81	92	144	600	273
OCO-400R	48000	14000	12000	4	24	90	32	120	460/60/3	36	50	56	92	127	144	750	320
OCO-500R	60000	17600	15000	5	30	112	32	120	460/60/3	36	50	56	92	127	144	850	395
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OCO-1000R	120000	35200	30000	10	50	190	60	225	460/60/3	46	74	60	117	188	153	1200	550
OCO-1500R	180000	52800	45000	15	75	280	100	375	460/60/3	46	87	78	117	221	198	1500	680
OCO-2000R	240000	70400	60000	20	100	375	150	560	460/60/3	46	87	78	117	221	198	2500	1150
OCO-2500R	300000	88000	75000	25	125	470	150	560	460/60/3	48	116	78	122	295	198	2500	1150
OCO-3000R	360000	105600	90000	30	150	560	200	750	460/60/3	48	116	78	122	295	198	2800	1300

\*Capacities based on cooling water to 60°F (16°C) or cooling oil to 80°F (28°C) in a 90°F (32°C) ambient. \*\*Options may affect dimensions.

# R COOLERS CLOSED-LOOP

## SELF-CONTAINED RECIRCULATING CHILLERS

**OC Models for Water or Water-Based Coolants** including de-ionized water, water/glycol mixtures, and water-based synthetic coolants.

OC models are supplied with a durable stainless steel coolant tank with filler/breather port and coolant level gauge. Evaporators are stainless steel immersion coils (up to 3 HP) or stainless steel brazed plates. Piping and fittings are non-ferrous. Standard pumps are bronze, brass, or stainless steel.

**OCO Models for Oil or Oil-Based Coolants.** OCO models are supplied with a rugged steel tank with filler/breather port and oil level gauge. Evaporators are enhanced stainless steel, brazed plates. Piping and fittings are copper, bronze, steel, or hose. Cast iron gear pumps are standard.

### APPLICATIONS

High-Speed Spindles	Chill Rolls	Vacuum Systems
Lasers	Injection Molding	Heat Exchangers
Power Supplies	Linear Motors	
Diffusion Pumps	Medical Equipment	
Jacketed Vessels	Welding	



OC0-300R

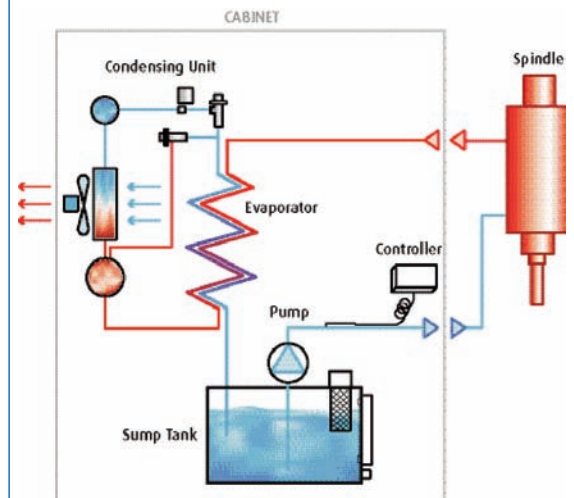


OC-100R



OC-25R

### THE CLOSED-LOOP SYSTEM



Closed-Loop coolers recirculate coolant from a tank mounted in the cooler, through a sealed coolant loop and heat load (spindle) and back to the tank. The tank, pump, and evaporator are all in the cooler.

Coolant is added to the tank through a filler/breather port. The coolant level is always visible in the tank level gauge. When the pump is energized, it draws coolant from the tank and pumps it through the coolant loop. The coolant absorbs heat from the heat load and then dissipates it in the evaporator before returning to the tank. The temperature controller senses the temperature of the coolant leaving the tank and controls the refrigeration effect in the evaporator to provide coolant at the desired discharge temperature.