

Super-Efficiency Fiberglass Evaporative Condensers

CATALOGUE 910.0
APRIL 1, 1989



Patent Pending

3 thru 72 nominal tons in 14 sizes.

Patent Pending

ECR Series Evaporative Condensers

ECR Series evaporative condensers ruggedly constructed of durable corrosion resistant fiberglass reinforced polyester. The ECR Series provides a compact, dependable and energy-efficient means of cost effectively rejecting refrigerant condenser heat.

- The highly efficient fan motor is totally enclosed and weather proofed for reliable long-term performance.
- The housing panels and water basin are constructed from rugged, durable, rustproof fiberglass reinforced plastic to assure dependable long-life performance, even under the severest environmental conditions.
- The full 360 degree design allows maximum air intake regardless of prevailing wind directional factors.
- Direct driven horizontal low head circulating pump kits are provided.



- The larger fan, mounted high atop the condenser, provides maximum air exhaust, while permitting closely spaced multiple condenser groupings. The direct driven axial fan provides low power consumption at reduced noise levels.
- PVC distribution pipes are provided with progressively spaced sprinkler holes to allow for even distribution of water in a rotating fountain-like effect over the entire coil bundle surface. This continuous wetting effect deters scaling from forming on the tube bundle.
- Tube bundle is arranged in a layered pattern. Each layer consists of corrosion resistant copper tubing coiled into a spiral pattern. All tubes and layers are equally spaced and supported to allow for expansion and contraction. The tube bundle is securely installed inside the casing by a unique copper and fiberglass mounting structure.
- The high-capacity water basin is constructed from rugged fiberglass reinforced plastic for corrosion-free, low maintenance and long-term operation.

Features

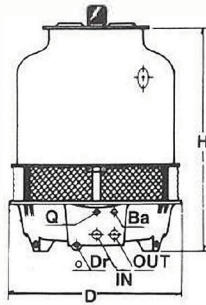
- All Fiberglass Casing
- .025" Wall Copper Tube Condenser Core
- Copper and Fiberglass Support Structure
- Direct Driven Single Axial Fan
- TEFC Weatherproof Motor
- Circulating Pump Kit
- Patent Pending

Options

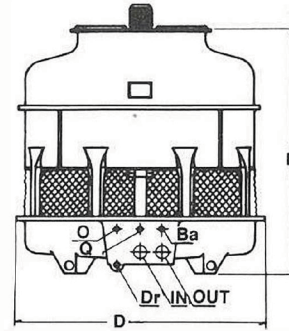
- Electric Sump Heater
- Multi-Circuiting

Evaporative Condenser

ECR-3 thru ECR-72 Physical and Performance Data



ECR-3 thru ECR-54



ECR-59 thru ECR-72

Model	Dimensions		Pipe Connections In.						Fan Diameter In.	Fan Motor HP
	Height	Diameter	In	Out	O	Dr	Ba	Q		
ECR-3 thru 10	56	32-3/4	1-1/2	1-1/2	1	3/4	1/2		18	1/6
ECR-15 thru 29	57	43-1/4	2	2	1	3/4	1/2	1/2	26	1/2
ECR-39 thru 54	68	63-3/4	2-1/2	2-1/2	1	3/4	1/2	1/2	34	3/4
ECR-59 thru 72	70	67-3/4	3	3	1	1	3/4	3/4	38	1

Evaporative Condenser Size	Capacity Tons*	Operating Weight (Lbs.)		Circuit Quantity	Refrigerant Charge ⁽¹⁾		
		Dry	Wet		R-12	R-22	R-502
3	3	157	373	5	3.9	3.6	3.7
5	5	196	412	8	6.1	5.5	5.6
8	8	235	451	11	8.1	7.3	7.6
10	10	291	507	15	11.4	10.2	10.6
15	15	330	755	9	21.2	19.1	19.7
20	20	390	815	12	28.2	25.4	26.3
25	25	451	876	15	35.5	31.9	33.0
29	29	492	917	17	40.2	36.2	37.4
39	39	643	1500	11	55.7	50.2	51.8
47	47	716	1573	13	65.9	59.3	61.3
54	54	788	1645	15	76.0	68.4	70.7
59	59	939	2026	14	83.8	75.5	78.0
63	63	981	2068	15	89.8	80.9	83.5
72	72	1064	2151	17	101.8	91.7	94.7

*Nominal tonnage is based on 78°W.B., 40°F. suction, 105°F. condensing with R-22.

(1) Refrigerant charge is in lbs. and is based on ambient above 60°F at charging time.



Russell

Evaporative Condenser



Russell