

30RB SERIES



Outdoor Central Chillers

AN EFFICIENT, SPACE SAVING SYSTEM FOR PROCESS COOLING

If you're cramped for plant space, the outdoor chiller may be the ideal solution for your process cooling needs. The outdoor air-cooled chiller works in conjunction with an in-plant reservoir and pumping system.

Models are available in capacities from 60 to 300 tons. Sterling systems are delivered installation-ready, full factory tested, pre-piped, pre-wired and completely weatherproofed. With 28 standard models and a comprehensive range of cooling capacities, there's a Sterling Air-Cooled Central Chilling System to meet your special requirements.



Features

- 60-300 ton cooling capacity (17 models)
- Rotary scroll compressors
- Minimum load capacity control
- Direct expansion shell and tube cooler with cooler heaters
- Puron® R-410A refrigerant
- Standard ambient operation from -20° F to 125° F (-29° C to 52° C)
- Standard leaving water temperature setpoints are from 40° F to 60° F (4.4° C to 18.6° C). Other setpoint ranges are available upon request.
- Two or three independent circuits
- Refrigeration(s) circuit includes oil separator, discharge and liquid line shut off valves, filter dryer, sight glass and electronic expansion valve
- Safeties include: high and low refrigerant, freezestat, phase loss, motor overload, ground fault, voltage and current imbalance, evaporator flow switch, and reverse rotation of compressor
- One year parts and labor warranty with factory startup is standard

Options

- Non-fused disconnect switch
- 4 year extended compressor parts warranty
- Remote display panel
- Wind baffle / hail guard (drawings supplied)
- SWK Winter Kooler – supplemental cooling option

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SPECIFICATIONS

Model	Cooling capacity, tons ¹	Capacity stages	Energy rating EER (Btu/watt)	Chilled water flow, gpm (lpm)	Evaporator con. size (FPT)	Compressor qty.	Min. circuit amps, 460/3/60
30RB 060	63.8	4	10.4	185 (700)	4" victaulic	3	127.9
30RB 070	73.7	4	10.2	214 (810)		3	147.9
30RB 080	85.3	5	10.3	247 (935)		4	160.6
30RB 090	96.2	5	10.4	279 (1056)		4	154.6
30RB 100	106.2	5	10.3	308 (1165)		4	170.0
30RB 110	117	6	10.2	339 (1283)	6" victaulic	5	180.8
30RB 120	131.2	6	10.4	380 (1438)		6	262.0
30RB 130	141.8	7	10.5	411 (1555)		7	277.0
30RB 150	161.7	7	10.4	469 (1775)		7	303.0
30RB 160	170.9	8	10.8	496 (1878)		8	329.0
30RB 170	185.9	8	10.2	539 (2040)		8	356.0
30RB 190	210.3	9	10.5	610 (2309)		9	408.0
30RB 210	225.9	10	10.6	655 (2479)		9	422.9
30RB 225	239.6	10	10.4	695 (2631)		9	449.6
30RB 250	265.6	11	10.4	770 (2915)		10	502.0
30RB 275	290.4	12	10.4	842 (3187)		11	554.4
30RB 300	315.4	12	10.3	915 (3464)		12	606.8

¹ Cooling capacity based upon 50% ethylene glycol at 50°F LWT with 60°F RWTT at 95°F ambient temperature

DIMENSIONS

Model	Height, ft. (in.)	Width, ft. (in.)	Depth, ft. (in.)	Ship. weight, lbs. (kg)
30RB 060	7' 5-7/8"	7' 4-1/16"	7' 10-1/4"	3872 (1758)
30RB 070	7' 5-7/8"	7' 4-1/16"	7' 10-1/4"	4077 (1849)
30RB 080	7' 5-7/8"	7' 4-1/16"	7' 10-1/4"	4335 (1966)
30RB 090	7' 5-7/8"	7' 4-1/16"	11' 9-1/4"	5667 (2571)
30RB 100	7' 5-7/8"	7' 4-1/16"	11' 9-1/4"	5890 (2672)
30RB 110	7' 5-7/8"	7' 4-1/16"	11' 9-1/4"	6144 (2787)
30RB 120	7' 5-7/8"	7' 4-1/16"	15' 8-1/4"	7315 (3318)
30RB 130	7' 5-7/8"	7' 4-1/16"	15' 8-1/4"	7615 (3454)
30RB 150	7' 5-7/8"	7' 4-1/16"	15' 8-1/4"	8564 (3884)
30RB 160	7' 5-7/8"	7' 4-1/16"	19' 7-5/16"	9656 (4380)
30RB 170	7' 5-7/8"	7' 4-1/16"	19' 7-5/16"	9990 (4531)
30RB 190	7' 5-7/8"	7' 4-1/16"	23' 6-1/4"	11,400 (5172)
30RB 210	7' 5-7/8"	7' 4-1/16"	23' 6-1/4"	13,020 (5905)
30RB 225	7' 5-7/8"	7' 4-1/16"	23' 6-1/4"	13,350 (6055)
30RB 250	7' 5-7/8"	7' 4-1/16"	27' 5-1/4"	14,750 (6690)
30RB 275	7' 5-7/8"	7' 4-1/16"	31' 4-1/4"	16,200 (7348)
30RB 300	7' 5-9/16"	7' 4-1/16"	35' 3-5/16"	17,590 (7879)