

30RB SERIES

Outdoor Central Chillers



Technical Specifications

30RB Series Outdoor Central Chiller is 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

Standard Features

- 60-300 ton cooling capacity (17 models)
- Rotary scroll compressors
- Minimum load capacity control
- Direct expansion shell and tube cooler with cooler heaters
- 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

Optional Features

- Non-fused disconnect switch
- 4 year extended compressor parts warranty. Factory start-up is required
- Remote display panel
- Wind baffle / hail guard
- Recommended with AWK Winter Kooler – an available supplemental cooling option for process cooling systems

Dimensions

Model	Height ft. in.	Width ft. in.	Depth ft. in.	Ship. weight, lb (kg)
30RB 060	7' 5-7/8"	7' 4-1/16"	7' 10-1/4"	3872 (1758)
30RB 070				4077 (1849)
30RB 080				4335 (1966)
30RB 090			11' 9-1/4"	5667 (2571)
30RB 100				5890 (2672)
30RB 110				6144 (2787)
30RB 120			15' 8-1/4"	7315 (3318)
30RB 130				7615 (3454)
30RB 150				8564 (3884)
30RB 160			19' 7-5/16"	9656 (4380)
30RB 170				9990 (4531)
30RB 190			23' 6-1/4"	11400 (5172)
30RB 210				13020 (5905)
30RB 225				13350 (6055)
30RB 250			27' 5-1/4"	14750 (6690)
30RB 275				16200 (7348)
30RB 300	17590 (7879)			

Specifications

Model	Cooling Capacity tons	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		10.2	214 (810)			147.9
30RB 080	85.3	5	10.3	247 (935)		4	160.6
30RB 090	96.2		10.4	279 (1056)			154.6
30RB 100	106.2		10.3	308 (1165)			170.0
30RB 110	117	6	10.2	339 (1283)		5	180.8
30RB 120	131.2		10.4	380 (1438)	262.0		
30RB 130	141.8	7	10.5	411 (1555)	7	277.0	
30RB 150	161.7		10.4	469 (1775)		303.0	
30RB 160	170.9	8	10.8	496 (1878)	8	329.0	
30RB 170	185.9		10.2	539 (2040)		356.0	
30RB 190	210.3	9	10.5	610 (2309)	6" victaulic	408.0	
30RB 210	225.9	10	10.6	655 (2479)		9	422.9
30RB 225	239.6		695 (2631)	449.6			
30RB 250	265.6	11	10.4	770 (2915)		10	502.0
30RB 275	290.4			842 (3187)			554.4
30RB 300	315.4	12	10.3	915 (3464)		12	606.8