

CONDENSERLESS MODULAR CHILLERS

GENERAL SPECIFICATIONS OF CONDENSERLESS STANDARD MODELS

MODEL NUMBER	WCL060SSW		WCL070SSW		WCL080SSW		WCL090SSW		WCL100SSW		WCL120SSW		WCL140SSW	
Nominal Capacity (tons) ¹	60		70		80		90		100		120		140	
Refrigeration Circuits	1		1		1		1		1		1		1	
Refrigerant Type	R407C		R407C		R407C		R407C		R407C		R407C		R407C	
Refrigerant Charge (equipment only) ⁴	19.1		23.4		26.2		29.1		38.8		43.5		48.2	
Receiver Capacity (lbs)	60		60		60		60		60		60		60	
COMPRESSOR	SCH2-600E		SCH2-700E		SCH2-800E		SCH2-900E		SCH2-11HE		SCH2-12HE		SCH2-14HE	
Type	Screw		Screw		Screw		Screw		Screw		Screw		Screw	
Quantity	1		1		1		1		1		1		1	
Weight (lbs)	716		1076		1085		1103		1753		1766		1788	
Nominal Hp	60		70		80		90		100		120		140	
Power (kW)	44.1		50.6		59.5		66.9		79.8		92.7		104.7	
EVAPORATOR	B3-210-60-3.0		B3-210-72-3.0		B3-210-82-3.0		B3-210-92-3.0		B3-210-120-3.0		B3-210-134-3.0		B3-210-150-3.0	
Heat Exchanger (type)	Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate	
Quantity	1		1		1		1		1		1		1	
Weight (lbs)	135		156		173		191		240		265		293	
Max. Working Refrigeration Pressure (PSI)	435		435		435		435		435		435		435	
Max. Water Refrigeration Pressure (PSI)	300		300		300		300		300		300		300	
Water Storage Volume (gal)	3.17		3.80		4.33		4.86		6.34		7.08		7.93	
Water Storage Volume in 6" Headers (gal)	6.00		6.00		6.00		6.00		6.00		6.00		6.00	
Flow Rate (GPM)	119.5		144		164		195		236		267		284	
Water dP (PSI)	6.15		6.25		6.32		6.51		6.47		6.76		6.76	
Header Water Connections (inch) ²	6		6		6		6		6		6		6	
Interconnecting Refrigerant Piping ³	50'	100'	50'	100'	50'	100'	50'	100'	50'	100'	50'	100'	50'	100'
Discharge Line Size														
Liquid Line Size														
DIMENSIONS (inch)	58 x 34 1/8 x 70		64 x 34 1/8 x 72		64 x 34 1/8 x 72		64 x 34 1/8 x 72		72 x 40 1/8 x 76		78 x 40 1/8 x 76		78 x 40 1/8 x 76	
WEIGHT (lbs) ⁶	2,090		2,500		2,530		2,600		3,500		3,540		3,600	

Notes:

1. Tonnage rating conditions: 44 °F leaving chilled water temperature, flow rates are 2.4 GPM per ton through the evaporator with a 0.0001 fouling factor.
2. Main water header connections are Ø6" with grooved connections for SCH 40 steel pipe, recommended flow rates in 450 to 650 GPM.
3. Pipe sized based on 50' run length and 100' run length.
4. Field refrigerant charge: equipment charge + receiver charge + piping charge.
5. Condenserless model shipped with holding charge of nitrogen, will require field charging with freon.
6. Unit shipping weight includes refrigerant charge and packaging.