

CONDENSERLESS MODULAR CHILLERS

GENERAL SPECIFICATIONS OF CONDENSERLESS STANDARD MODELS

MODEL NUMBER	WCL060SSY		WCL070SSY		WCL080SSY		WCL090SSY		WCL100SSY		WCL120SSY		WCL140SSY	
Nominal Capacity (tons) ¹	60		70		80		90		100		120		140	
Refrigeration Circuits	1		1		1		1		1		1		1	
Refrigerant Type	R134A		R134A		R134A		R134A		R134A		R134A		R134A	
Refrigerant Charge (equipment only) ⁴	25.5		29.4		36.6		42.8		51.0		61.3		73.3	
Receiver Capacity (lbs)	60		60		60		60		60		60		60	
COMPRESSOR	SCA2-600E		SCA2-700E		SCA2-800E		SCA2-900E		SCA2-11HE		SCA2-12HE		SCA2-14HE	
Type	Screw		Screw		Screw		Screw		Screw		Screw		Screw	
Quantity	1		1		1		1		1		1		1	
Weight (lbs)	1076		1091		1749		1762		1784		1786		1808	
Nominal Hp	60		70		80		90		100		120		140	
Power (kW)	37.7		42.6		51.2		58.9		67.3		77.5		84.6	
EVAPORATOR	B3-210-94-3.0		B3-210-106-3.0		B3-210-136-3.0		B3-210-158-3.0		B3-210-190-3.0		B3-210-226-3.0		B3-210-274-3.0	
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)	194		216		268		307		363		427		511	
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)	4.97		5.60		7.19		8.35		10.04		11.94		14.48	
Water Storage Volume in 6" Headers (gal)	6.00		6.00		6.00		6.00		6.00		6.00		6.00	
Flow Rate (GPM)	118		131.4		165.5		187.8		218.0		246.7		275.0	
Water dP (PSI)	2.62		2.59		2.62		2.61		2.61		2.59		2.60	
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)	64 x 34 1/8 x 72		64 x 34 1/8 x 72		72 x 40 1/8 x 76		72 x 40 1/8 x 76		72 x 40 1/8 x 76		78 x 40 1/8 x 76		78 x 40 1/8 x 76	
WEIGHT (lbs) ⁶	2,530		2,590		3,430		3,530		3,610		3,730		3,820	

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.