

WATER COOLED MODULAR CHILLERS
GENERAL SPECIFICATIONS OF WATER COOLED STANDARD MODELS

MODEL NUMBER	W060SSY	W070SSY	W080SSY	W090SSY	W100SSY	W120SSY	W140SSY
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 (lbs)	45	51	63	74	87	102	117
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. Working Water 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	246.7	275
Water dP (PSI)	2.62	2.59	2.62	2.61	2.61	2.59	2.60
Water Header Connections (inch) ²	6	6	6	6	6	6	6
CONDENSER	B3-210-92-3.0	B3-210-102-3.0	B3-210-124-3.0	B3-210-146-3.0	B3-210-168-3.0	B3-210-190-3.0	B3-210-210-3.0
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)	191	208	247	286	325	363	398
Max. Working Refrigeration Pressure (PSI)	435	435	435	435	435	435	435
Max. Working Water Pressure (PSI)	300	300	300	300	300	300	300
Water Storage Volume (gal)	4.86	5.39	6.55	7.71	8.88	10.04	10.78
Water Storage Volume in 6" Headers (gal)	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Flow Rate (GPM)	145.5	162.2	202.6	230.4	266.7	302.8	339.0
Water dP (PSI)	4.51	4.65	5.15	5.11	5.51	5.97	6.43
Water Header Connections (inch) ²	6	6	6	6	6	6	6
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) ³	2,950	3,000	3,900	4,050	4,200	4,350	4,500

Notes:

1. Tonnage rating conditions: 44 °F leaving chilled water temperature, 85 °F entering condenser water temperature, flow rates are 3.0GPM per ton through the condenser with a fouling factor of 0.00025 and 2.4 GPM per ton through the evaporator with a fouling factor of 0.0001.
2. Main water header connections are Ø6" with grooved connections for SCH 40 steel pipe, recommended flow rates in 450 to 650 GPM.
3. Unit shipping weight includes refrigerant charge and packaging.