

WATER COOLED CONDENSING UNITS
GENERAL SPECIFICATIONS OF WATER COOLED CONDENSING UNITS

MODEL NUMBER	WCU060SSY		WCU070SSY		WCU080SSY		WCU090SSY		WCU100SSY		WCU120SSY		WCU140SSY	
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	21.4		24.2		28.6		34.0		38.7		44.5		47.0	
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)	1,076		1,091		1,749		1,762		1,784		1,786		1,808	
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	
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. Water Refrigeration 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	
Water dP (psi)	4.51		4.65		5.15		5.11		5.51		5.97		6.43	
Flow Rate (gpm)	145.5		162.2		202.6		230.4		266.7		302.8		339.0	
Water Header (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'
Suction 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		2,580		3,400		3,500		3,570		3,650		3,700	

Notes:

1. Tonnage rating conditions: 85 °F entering condenser water temperature, flow rates are 3.0 GPM per ton through the condenser with a fouling factor of 0.00025.
2. Main water headers 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. Condensing unit shipped with holding charge of nitrogen, will require field charging with freon.
6. Unit shipping weight includes refrigerant charge and packaging.