

CONDENSERLESS MODULAR CHILLERS

GENERAL SPECIFICATIONS OF CONDENSERLESS STANDARD MODELS

MODEL NUMBER	WCL010DZV		WCL015DZV		WCL020DZV		WCL025DZV		WCL030DZV		WCL040DZV		WCL0450DV		WCL050DZV		WCL070DZV	
Nominal Capacity (tons) ¹	10		15		20		25		30		40		45		50		70	
Refrigeration Circuits	2		2		2		2		2		2		2		2		2	
Refrigerant Type	R410A		R410A		R410A		R410A		R410A		R410A		R410A		R410A		R410A	
Refrigerant Charge (equipment only) ⁴	2.7		3.7		3.6		4.6		5.6		7.5		10.6		10.6		12.2	
Receiver Capacity (lbs)	19		19		19		19		19		19		19		19		19	
COMPRESSOR	ZP61KCE		ZP90KCE		ZP120KCE		ZP154KCE		ZP182KCE		ZP235KCE		ZP285KCE		ZP295KCE		ZP385KCE	
Type	Scroll		Scroll		Scroll		Scroll		Scroll		Scroll		Scroll		Scroll		Scroll	
Quantity	2		2		2		2		2		2		2		2		2	
Weight (lbs)	105		150		160		165		170		386		450		414		452	
Nominal Hp	5.0		7.5		10.0		13.0		15.0		20.0		22.5		25.0		30.0	
Power (kW)	5.2		7.5		9.8		12.4		14.7		18.7		21.9		23.6		30.7	
EVAPORATOR	B3-113-38-4.5		B3-113-50-4.5		B3-113-62-4.5		B3-113-74-4.5		B3-113-86-4.5		B3-113-110-4.5		B3-210-66-4.0		B3-210-70-4.0		B3-210-98-4.0	
Heat Exchanger (type)	Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate		Brazed Plate	
Quantity	1		1		1		1		1		1		1		1		1	
Weight (lbs)	47		57		67		77		87		107		145		152		202	
Max. Working Refrigeration Pressure (PSI)	650		650		650		650		650		650		650		650		650	
Max. Water Refrigeration Pressure (PSI)	300		300		300		300		300		300		300		300		300	
Water Storage Volume (gal)	0.80		1.06		1.31		1.57		1.82		2.32		3.49		3.70		5.18	
Water Storage Volume in 6" Headers (gal)	6.00		6.00		6.00		6.00		6.00		6.00		6.00		6.00		6.00	
Flow Rate (GPM)	24.6		37.9		51.2		61.6		72.0		92.8		108.0		116.0		160.0	
Water dP (PSI)	2.62		3.43		4.23		4.31		4.38		4.15		4.20		4.31		4.23	
Header Water Connections (inch) ²	6		6		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'	50'	100'	50'	100'
Discharge Line Size	¾	7/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 3/8	1 1/8	1 3/8	1 1/8	1 3/8	1 1/8	1 3/8	1 3/8	1 3/8
Liquid Line Size	5/8	¾	¾	¾	¾	7/8	¾	7/8	7/8	1 1/8	7/8	1 1/8	1 1/8	1 3/8	1 1/8	1 3/8	1 3/8	1 3/8
DIMENSIONS (inch)	48 ½ x 24 ½ x 60		48 ½ x 24 ½ x 60		48 ½ x 24 ½ x 60		48 ½ x 24 ½ x 60		48 ½ x 24 ½ x 60		48 ½ x 24 ½ x 72		48 ½ x 24 ½ x 72		48 ½ x 24 ½ x 72		48 ½ x 24 ½ x 72	
WEIGHT (lbs) ⁶	940		1,040		1,080		1,090		1,120		1,560		1,720		1,740		1,850	

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.