

CONDENSERLESS MODULAR CHILLERS

GENERAL SPECIFICATIONS OF CONDENSERLESS STANDARD MODELS

MODEL NUMBER	WCL010DZW		WCL015DZW		WCL020DZW		WCL025DZW		WCL030DZW		WCL040DZW		WCL050DZW		WCL070DZW	
Nominal Capacity (tons) ¹	10		15		20		25		30		40		50		70	
Refrigeration Circuits	2		2		2		2		2		2		2		2	
Refrigerant Type	R407C		R407C		R407C		R407C		R407C		R407C		R407C		R407C	
Refrigerant Charge (equipment only) ⁴	1.8		2.6		3.3		4.0		4.8		6.1		6.8		10.8	
Receiver Capacity (lbs)	19		19		19		19		19		19		19		19	
COMPRESSOR	ZR61KCE		ZR94KCE		ZR125KCE		ZR160KCE		ZR190KCE		ZR250KCE		ZR300KCE		ZR380KCE	
Type	Scroll		Scroll		Scroll		Scroll		Scroll		Scroll		Scroll		Scroll	
Quantity	2		2		2		2		2		2		2		2	
Weight (lbs)	105		105		105		105		105		105		105		105	
Nominal Hp	5.0		8.0		10.0		13.0		15.0		20.0		25.0		30.0	
Power (kW)	3.8		6.0		8.0		10.0		12.4		15.8		19.1		24.0	
EVAPORATOR	B3-113-22-3.0		B3-113-30-3.0		B3-113-42-3.0		B3-113-50-3.0		B3-113-58-3.0		B3-113-78-3.0		B3-113-90-3.0		B3-210-66-3.0	
Heat Exchanger (type)	Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate	
Quantity	1		1		1		1		1		1		1		1	
Weight (lbs)	33		40		50		57		63		80		90		145	
Max. Working Refrigeration Pressure (PSI)	435		435		435		435		435		435		435		435	
Max. Water Refrigeration Pressure (PSI)	300		300		300		300		300		300		300		300	
Water Storage Volume (gal)	0.46		0.63		0.89		1.06		1.22		1.65		1.90		3.48	
Water Storage Volume in 6" Headers (gal)	6.0		6.0		6.0		6.0		6.0		6.0		6.0		6.0	
Flow Rate (GPM)	21.5		21.5		21.5		21.5		21.5		21.5		21.5		21.5	
Water dP (PSI)	5.77		7.04		7.25		8.04		8.83		8.52		8.80		7.68	
Header Water Connections (inch) ²	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'
Discharge Line Size	3/4	7/8	7/8	1 1/8	1 1/8	1 1/8	1 3/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	2 1/8
Liquid Line Size	5/8	3/4	3/4	3/4	3/4	7/8	3/4	7/8	7/8	7/8	7/8	1 1/8	1 1/8	1 3/8	1 1/8	1 3/8
DIMENSIONS (inch)	48½ x 24½ x 60		48½ x 24½ x 60		48½ x 24½ x 60		48½ x 24½ x 60		48½ x 24½ x 60		48½ x 24½ x 72		48½ x 24½ x 72		48½ x 24½ x 72	
WEIGHT (lbs) ⁶	910		1,000		1,030		1,050		1,070		1,490		1,650		1,780	

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.