

WATER COOLED CONDENSING UNITS
GENERAL SPECIFICATIONS OF WATER COOLED CONDENSING UNITS

MODEL NUMBER	WCU010DZV		WCU015DZV		WCU020DZV		WCU030DZV		WCU040DZV		WCU050DZV		WCU070DZV	
Nominal Capacity (tons) ¹	10		15		20		30		40		50		70	
Refrigeration Circuits	2		2		2		2		2		2		2	
Refrigerant Type	R410A		R410A		R410A		R410A		R410A		R410A		R410A	
Refrigerant Charge (equipment only) ⁴	2.8		4.0		4.3		6.8		9.3		13.9		15.3	
Receiver Capacity (lbs)	19		19		19		19		19		19		19	
COMPRESSOR	ZP61KCE		ZP90KCE		ZP120KCE		ZP182KCE		ZP235KCE		ZP295KCE		ZP385KCE	
Type	Scroll		Scroll		Scroll		Scroll		Scroll		Scroll		Scroll	
Quantity	2		2		2		2		2		2		2	
Weight (lbs)	105		150		160		170		386		414		452	
Nominal Hp	5.0		7.5		10.0		15.0		20.0		25.0		30.0	
Power (kW)	4.1		6.0		7.7		11.8		15.2		19.1		24.9	
CONDENSER	B3-113-46-4.5		B3-113-66-4.5		B3-210-62-4.0		B3-210-82-4.0		B3-210-102-4.0		B3-210-126-4.0		B3-210-158-4.0	
Heat Exchanger (type)	Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate		Braze Plate	
Quantity	1		1		1		1		1		1		1	
Weight (lbs)	53		70		141		173		209		251		307	
Max. Working Refrigeration Pressure (psi)	650		650		650		650		650		650		650	
Max. Water Refrigeration Pressure (psi)	300		300		300		300		300		300		300	
Water Storage Volume (gal)	0.97		1.4		4.40		5.80		7.20		9.00		11.20	
Water Storage Volume in 6" Headers (gal)	6.00		6.00		6.00		6.00		6.00		6.00		6.00	
Water dP (psi)	2.68		3.12		1.96		2.35		2.45		2.63		3.13	
Flow Rate (gpm)	32		47		65		93		123		154		202	
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'
Discharge Line Size	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"	2 1/8"
Liquid Line Size	5/8"	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	1 1/8"	7/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"
DIMENSIONS (inch)	48 1/2 x 24 1/2 x 60		48 1/2 x 24 1/2 x 60		48 1/2 x 24 1/2 x 72		48 1/2 x 24 1/2 x 72		48 1/2 x 24 1/2 x 72		48 1/2 x 24 1/2 x 72		48 1/2 x 24 1/2 x 72	
WEIGHT (lbs) ⁶	900		1,020		1,120		1,180		1,650		1,830		1,780	

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.