

WATER COOLED HIGH EFFICIENCY MODULAR CHILLERS
GENERAL SPECIFICATIONS OF WATER COOLED HIGH EFFICIENCY MODELS

MODEL NUMBER	WX010DZV	WX015DZV	WX020DZV	WX030DZV	WX040DZV	WX050DZV	WX070DZV	WX075DZV	WX085DZV
Nominal Capacity (tons) ¹	10	15	20	30	40	50	70	75	85
Refrigeration Circuits	2	2	2	2	2	2	2	2	2
Refrigerant Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Charge (lbs)	5	7	14	19	23	29	33	35	41
COMPRESSOR									
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	170	330	340	355	355	386
Nominal Hp	5	7.5	10	15	20	25	30	35	40
Power (kW)	4.1	6.0	7.7	11.8	15.9	19.1	24.1	26.6	30
EVAPORATOR									
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 (empty) (lbs)	47	57	97	126	141	177	213	220	278
Max. Working Refrigeration Press. (psi)	650	650	650	650	650	650	650	650	650
Max. Working Water Pressure (psi)	300	300	300	300	300	300	300	300	300
Water Storage Volume (gal)	0.8	1.06	2.7	3.8	4.4	5.8	7.5	7.5	9.8
Water Storage Volume in Headers (gal)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Water dP (psi)	1.73	3.43	3.08	3.5	3.4	3.9	3.97	4.01	4.08
Flow Rate (gpm)	24	38	52	78	104	124	160	160	192
Water Header (inch) ²	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"
CONDENSER									
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)	53	70	141	173	209	251	307	314	392
Max. Working Refrigeration Press. (psi)	650	650	650	650	650	650	650	650	650
Max. Working Water Pressure (psi)	300	300	300	300	300	300	300	300	300
Water Storage Volume (gal)	0.97	1.4	4.4	5.8	7.2	9.0	11.2	11.2	14.6
Water Storage Volume in Headers (gal)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Water dP (psi)	2.15	3.12	1.96	2.58	3.03	2.97	3.08	3.7	3.79
Flow Rate (gpm)	30	47	65	98	131	156	201	221	240
Water Header (inch) ²	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"	2 x 6"
DIMENSIONS - L" x W" x H"	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	48½ x 24½ x 72	56½ x 24½ x 72	56½ x 24½ x 72	60 x 24 ½ x 72
WEIGHT: (Shipping) (lbs) ³	1,050	1,140	1,300	1,370	1,850	2,000	2,100	2,100	2,250
WEIGHT: (Operating)	1,150	1,250	1,450	1,520	2,000	2,250	2,350	2,350	2,600

Notes:

1. Tonnage rating conditions: 44 °F leaving chilled water temperature, 85 °F entering condenser water temperature, flow rates are 3.0 GPM 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 headers 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.