



WATER COOLED MODULAR SCROLL CHILLERS

FOR USE WITH COOLING TOWERS & GROUND SOURCE SYSTEMS
THE ONLY TRULY MODULAR CHILLER

WATER COOLED CHILLERS - WX SERIES

Range – dual 5 hp up to dual 40 hp compressors using 410A for standard chillers and 134a for high temperature chillers with the maximum number of 12 chillers in one group.

Water Cooled Chillers Model WX

- Standard 410A chillers the maximum entering condenser water is 95°F (35° C).
- AHRI certified and UL 1995 approved.
- 8 models to choose from 10, 20, 30, 40, 50, 70, 75 and 85.
- Chillers have dual high efficiency scroll compressors.
- Chillers have dual refrigeration circuits.
- Dual circuit high efficiency brazed plate evaporators insulated with ¾" closed cell flexible thermal insulation and high efficiency brazed plate condensers.
- Evaporator and condensers are oversized to increase efficiency of the chiller.
- Options include motorized valves for stepped flow and head pressure control, sound blankets, hot gas by-pass on stand-alone chillers and factory start-up.



Features and Benefits

SMALL COMPACT SIZE: Makes it easy to get to those out of the way mechanical rooms when moving through narrow doors, halls and small elevators. The water header assembly can be removed to make the chiller even smaller.

EASILY INSTALLED: The modular chillers are shipped complete with panels and water headers, once in position all that needs to be done is connect the main headers to each other and connect the main power to the chiller. Simplifying the installation reduces installation time and cost.

EASILY EXPANDED: Just add a new chiller to the end of the existing row, connect up the main headers and main power and you are done. Twelve (12) chillers can be connected in one row.

This process can be made easier by installing the main water headers with shut-off valves during the first phase and just slip future chiller(s) into place and connect up to branch header valves. This is all done without interruption to the rest of the system.

EASILY REMOVED: It takes only one hour to remove a chiller for service without interruption to the rest of the system and is re-installed just as easily. Having the option to remove and replace the chiller for service when you want not when the cooling season is over.

EASY TO OPERATE: Our large LCD displays in each chiller allows the operator to read operating and fault conditions in English and with our larger display on the System Remote Master it is even easier to see the status of each chiller in the group. Both displays have key pads for entering or retrieving data and monitoring the many display screens.

BAS COMMUNICATIONS: Available for both a stand-alone chiller or for a group of chillers through the System Remote Master. Choices available are BACnet IP, BACnet MS/TP, Modbus and LonWorks.

If communications is not an option you can remote start the chiller or system, receive an alarm output and change the set point with a 4 to 20 ma signal.

OUTSTANDING RELIABILITY: Our advanced chiller design incorporates dual High Efficiency SCROLL compressors with dual refrigeration circuits, oversized dual circuit stainless steel copper brazed plate evaporator and condenser, all necessary refrigeration components and safety controls. Combined with our exclusive INTELLIGENT CHILLER control system insures year-round reliable chiller operation for many years.

UNSURPASSED OPERATING EFFICIENCIES: With high efficiency 410A SCROLL compressors, oversized evaporator and condenser we achieve some of the lowest kw/ton and highest EER's in the industry to-day.

EXTRAORDINARY SAFETY PROTECTION: With our exclusive "INTELLIGENT CHILLER" control system that senses all of the following points to prevent nuisance trips while protecting your chiller: Compressor operating temperatures and pressures, chilled water temperatures, chilled water flow, condenser water temperatures, phase reversal, under/over voltage, compressor internal protection, rotates compressors on a first in – first out basis to equalize both run times and compressor starts.

We have designed the best ongoing preventative maintenance program possible for your chiller.

WITH OVER 40 YEARS EXPERIENCE DESIGNING AND BUILDING CHILLERS AND CHILLING SYSTEMS, WE CAN ASSIST YOU THROUGH THE DESIGN, INSTALLATION AND START-UP OF YOUR SYSTEM.

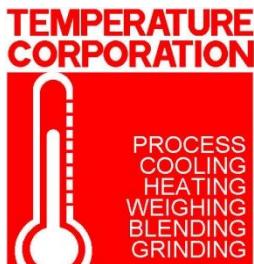
GENERAL SPECIFICATIONS

MODEL NUMBER	WX010DZV	WX015DZV	WX020DZV	WX030DZV	WX040DZV	WX050DZV	WX070DZV	WX075DZV	WX085DZV
Nominal Capacity (tons) ¹	10	15	20	30	40	50	70	75	80
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	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 Pressure (psi)	650	650	650	650	650	650	650	650	650
Refrigeration Press. (psi)									
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 Pressure (psi)	650	650	650	650	650	650	650	650	650
Refrigeration Press. (psi)									
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	29.0	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	3.70	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 x60	48½ x 24½ x60	48½ x 24½ x72	48½ x 24½ x72	48½ x 24½ x72	48½ x 24½ x 72	56½ x 24½ x 72	56½ x 24½ x 72	60 x 24 ½ x72
WEIGHT: (Shipping) (lbs) ³	1050	1140	1300	1370	1850	2000	2100	2100	2250
WEIGHT: (Operating)	1150	1250	1450	1520	2000	2250	2350	2350	2600

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 6" with grooved connections for SCH 40 steel pipe recommended flow rates in 450 to 650 GPM.
3. Unit shipping weight includes refrigerant charge.

CONTACT INFORMATION



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