

MODULAR CHILLER

water to water heat pumps

Our **Aquarius WW Series** water-cooled modular reverse cycle chillers are designed to meet all your replacement or new construction chiller requirements. Specifically designed and optimized for use with refrigerant R-410A, the industry's alternative to R-22, ensures the availability of refrigerant over the service life of the unit.

The **Aquarius WW Series** is available in sizes from 2 to 35 nominal tons with single or dual compressor models that fit easily through a standard 36" door. The modular design gives you the flexibility to install units individually or in any combination to match the exact load requirement.



Our chillers have a fraction of the refrigerant charge of central station chillers and operate at a significantly reduced sound level. If you need to replace an old chiller or install a new one, FHP has the versatility, design and quick delivery to meet your HVAC needs.

● Superior Efficiency

Our highly efficient units can greatly reduce operational costs while at full load or part load conditions. They may be selected to meet your specific load requirements greatly reducing the initial cost compared to large central station chillers.

● Increased Redundancy

Multiple unit installations provide redundancy that helps prevent unwanted down time during emergency repairs or scheduled maintenance. Modules can be added at any time to increase capacity.

● Space Savings

Modular chillers typically occupy far less space than standard central station chillers and can be moved and transported easily through doorways, elevators, or hallways.

● Reverse Cycle Operation

Factory equipped with a reversing valve that offers unparalleled versatility for heating applications. The **Aquarius WW Series** can be utilized for Hydronic Heating, Make-Up Air Applications or Swimming Pool Heating just to mention a few of the many potential heating applications.

AQUARIUS WW SERIES

WW SERIES - WATER COOLED CHILLERS AND LOW TEMPERATURE BOILERS CAPACITY DATA

CHILLER CAPACITY DATA

MODEL	SINGLE COMPRESSOR MODELS									
	LEAVING CHILLED FLUID TEMPERATURE (°F)									
	42°F		44°F		46°F		48°F		50°F	
	MBTUH	EER	MBTUH	EER	MBTUH	EER	MBTUH	EER	MBTUH	EER
WW024	23.6	12.9	24.0	13.2	25.3	13.8	25.7	14.1	26.5	14.5
WW036	25.2	13.5	25.7	13.7	27.0	14.4	27.5	14.7	28.4	15.2
WW048	49.0	13.1	39.6	13.3	41.7	13.9	42.4	14.2	43.8	14.7
WW060	50.9	13.0	51.8	13.2	54.5	13.9	55.4	14.1	57.3	14.6
WW072	54.9	13.5	55.8	13.8	58.8	14.5	59.8	14.8	61.9	15.3
WW120	110.8	14.0	112.7	14.2	118.7	14.8	120.7	15.1	124.9	15.5
WW180	126.0	14.1	128.0	14.3	134.2	14.9	136.3	15.1	140.6	15.5
WW210	164.2	13.7	167.2	13.9	176.3	14.6	179.4	14.8	185.8	15.3
	DUAL COMPRESSOR MODELS									
WW122	114.5	13.8	116.6	14.1	123.1	14.9	125.3	15.2	129.8	15.7
WW240	221.6	14.0	225.5	14.2	237.4	14.8	241.5	15.1	249.7	15.5
WW360	252.0	14.1	256.0	14.3	268.4	14.9	272.6	15.1	281.2	15.5
WW420	328.5	13.7	334.4	13.9	352.6	14.6	358.9	14.8	371.7	15.3

Performance based on unit nominal flow rates and at 85°F entering condenser water. Please refer to unit specification sheets for details.

HEATING CAPACITY DATA

MODEL	SOURCE ENTERING FLUID TEMP	SINGLE COMPRESSOR MODELS							
		LOAD LEAVING FLUID TEMPERATURE (°F)							
		110°F		120°F		125°F			
		MBTUH	COP	MBTUH	COP	MBTUH	COP		
WW024	40	25.7	3.4	25.5	3.0	25.4	2.6		
	70	36.2	5.0	35.5	4.3	34.9	3.7		
WW036	40	27.1	3.5	26.8	3.0	26.6	2.6		
	70	38.3	5.2	37.6	4.4	36.8	3.8		
WW048	40	42.1	3.5	41.7	3.0	41.5	2.6		
	70	59.2	5.1	58.0	4.4	56.9	3.8		
WW060	40	55.6	3.5	55.4	3.1	55.4	2.7		
	70	78.1	5.0	77.0	4.4	75.9	3.9		
WW072	40	58.0	3.4	57.1	3.0	56.1	2.5		
	70	83.4	5.2	81.7	4.5	80.0	3.8		
WW120	40	114.8	3.5	113.0	3.0	111.7	2.6		
	70	167.3	5.2	163.0	4.5	158.4	3.9		
WW180	40	133.0	3.7	130.8	3.2	128.6	2.8		
	70	187.3	5.2	182.9	4.5	178.5	3.9		
WW210	40	172.7	3.6	170.5	3.1	168.5	2.8		
	70	250.7	5.2	244.6	4.5	238.7	3.9		
		DUAL COMPRESSOR MODELS							
WW122	40	120.3	3.5	118.6	3.0	117.0	2.6		
	70	174.8	5.4	171.2	4.6	167.7	3.9		
WW240	40	229.6	3.5	226.0	3.0	223.5	2.6		
	70	334.6	5.2	326.0	4.5	316.9	3.9		
WW360	40	229.6	3.5	226.0	3.0	223.5	2.6		
	70	334.6	5.2	326.0	4.5	316.9	3.9		
WW420	40	345.3	3.57	341.0	3.1	337.0	2.8		
	70	501.5	5.20	489.2	4.5	477.4	3.9		

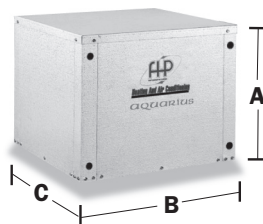
Performance at nominal flow rates. Please see specification sheets for details.

DIMENSIONS AND SPECIFICATIONS

MODEL NO.	NO CIRCUITS	DIMENSIONS			OPER. WEIGHT	WATER CONN
		A Height	B Width	C Depth		
WW024	1	24.25	32.5	24	250	0.75
WW036	1	24.25	32.5	24	250	0.75
WW048	1	24.25	32.5	24	300	1.0
WW060	1	24.25	32.5	24	310	1.0
WW072	1	24.25	32.5	24	430	1.0
WW120	1	32	28	46	500	1.25
WW122	2	32	28	46	520	1.25
WW180	1	32	28	46	740	1.5
WW210	1	32	28	46	770	1.5
WW240	2	64	28	46	970	2.0
WW360	2	64	28	46	1490	2.0
WW420	2	64	28	46	1550	2.0

Note: condenser and evaporator water connection are equal size.

*WW024 through WW072 optional double wall heat exchanger available on load side only for potable hot water heating. Unit capacity will be reduced by approximately 5%.



Typical Chiller Applications

- Commercial Air Conditioning
- Food Processing
- Spot Cooling
- Make-Up Air
- Computer Room Cooling
- Clean Room
- Hospital Operating Rooms
- Lab Testing Facilities
- Residential Air Conditioning
- Marine Cooling
- Industrial Process Cooling
- Sterilizer Cooling
- Plating Process Cooling
- Injection Molding Cooling
- Custom Designed Systems

Typical Heating Applications

- Hydronic Heating
- Snow & Ice Melting
- Car Wash Heating
- Make-Up Air
- Base Board Heating
- Swimming Pool Heating
- Domestic Hot Water*

Unit Features

- Scroll Compressors
- Compact Modular Design
- Small Refrigerant Charge
- Multiple Circuits for Redundancy
- Fully Charged at the Factory
- Fits Through Doorways & Elevators
- Quick Delivery
- Whisper Quiet Design
- Easy To Install
- Meet Exact Load
- High Efficiency
- UL Approved

Selection Software

Helps match your exact job conditions (visit our web site for software downloads @ www.fhp-mfg.com)

PERFORMANCE DATA

FHP MANUFACTURING COMPANY

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