

MODULAR CHILLER

water to water heat pumps

Our **WP Series** water-cooled modular reverse cycle chillers are designed to meet all your replacement or new construction chiller needs.

The **WP Series** is available in sizes from 3 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 whisper quiet 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 all your HVAC needs.



UP TO
17.2
EER

UP TO
5.9
COP

● Superior Efficiency

EER's up to 17.2 that can greatly reduce operational costs while at full load efficiency or at part load conditions. Our chillers can be sized for your exact 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 **WP 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.

WP SERIES

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

CHILLER CAPACITY DATA

SINGLE COMPRESSOR MODELS															
MODEL NO.	Nominal Tons	LEAVING CHILLED FLUID TEMPERATURE (°F)													
		40°F		42°F		44°F		45°F		46°F		48°F		50°F	
		TONS	BTUH	TONS	BTUH	TONS	BTUH	TONS	BTUH	TONS	BTUH	TONS	BTUH	TONS	BTUH
WP036	3.0	2.45	29,456	2.57	30,817	2.68	32,219	2.75	32,943	2.81	33,662	2.93	35,148	3.06	36,693
WP060	5.0	3.63	43,612	3.77	45,249	3.91	46,927	3.98	47,784	4.05	48,652	4.20	50,410	4.35	52,216
WP072	6.0	4.36	52,324	4.51	54,172	4.67	56,074	4.75	57,043	4.84	58,022	5.00	60,017	5.17	62,060
WP120	10.0	8.44	101,234	8.74	104,927	9.06	108,709	9.22	110,634	9.38	112,573	9.71	116,547	10.05	120,604
WP180	15.0	10.23	122,728	10.58	126,955	10.94	131,311	11.13	133,549	11.32	135,815	11.71	140,471	12.11	145,266
WP210	17.5	11.92	143,050	12.38	148,556	12.85	154,222	13.09	157,113	13.34	160,035	13.83	166,019	14.35	172,169
DUAL COMPRESSOR MODELS															
WP240	20.0	16.87	202,468	17.49	209,844	18.12	217,409	18.44	221,259	18.76	225,146	19.42	233,084	20.1	241,199
WP360	30.0	20.45	245,449	21.16	253,902	21.89	262,622	22.26	267,091	22.64	271,631	23.41	280,934	24.21	290,533
WP420	35.0	23.84	286,110	24.76	297,111	25.70	308,434	26.18	314,217	26.67	320,069	27.67	332,037	28.69	344,399

Performance based on 2.4 GPM per nominal ton on evaporator side and 10° F rise on condenser side @ 85° F condenser water temperature.

HEATING CAPACITY DATA

SINGLE COMPRESSOR MODELS												
MODEL NO.	Source GPM	Source EFT (°F)	LEAVING CHILLED FLUID TEMPERATURE (°F)									
			100°F		110°F		120°F		125°F		130°F	
			TONS	BTUH	TONS	BTUH	TONS	BTUH	TONS	BTUH	TONS	BTUH
WP036	7.0	40	2.66	31,872	2.52	30,205	2.37	28,418	2.29	27,508	2.21	26,565
			4.26	51,090	4.09	49,024	3.90	46,859	3.81	45,747	3.72	44,606
WP060	12.0	40	4.24	50,896	4.26	51,094	4.28	51,377	4.30	51,563	4.32	51,782
			6.14	73,690	6.11	73,287	6.08	72,914	6.06	72,748	6.05	72,604
WP072	14.0	40	5.02	60,280	4.99	59,877	4.95	59,394	4.93	59,114	4.90	58,807
			7.18	86,182	7.10	85,156	7.01	84,136	6.97	83,620	6.92	83,098
WP120	24.0	40	9.64	115,727	9.59	115,067	9.54	114,442	9.51	114,142	9.49	113,847
			13.89	166,727	13.71	164,507	13.53	162,348	13.44	161,290	13.35	160,245
WP180	36.0	40	12.05	114,542	12.11	145,261	12.20	146,365	12.25	147,024	12.31	147,733
			17.21	206,495	17.00	204,017	16.79	201,526	16.69	200,239	16.57	198,898
WP210	42.0	40	14.11	169,313	14.00	167,962	13.87	166,428	13.80	165,630	13.74	164,835
			20.62	247,430	20.30	243,619	20.00	240,028	19.86	238,352	19.73	236,781
DUAL COMPRESSOR MODELS												
WP240	48.0	40	19.29	231,453	19.18	230,135	19.07	228,884	19.02	228,282	18.97	227,692
			27.79	333,451	27.42	329,013	27.06	324,693	26.88	322,577	26.71	320,486
WP360	72.0	40	24.09	289,084	24.21	290,523	24.39	292,732	24.50	294,049	24.62	295,469
			34.42	412,986	34.00	408,032	33.59	403,053	33.37	400,475	33.15	397,793
WP420	84.0	40	28.22	338,625	27.99	335,924	27.74	332,856	27.60	331,259	27.47	329,667
			41.24	494,860	40.60	487,235	40.00	480,053	39.73	476,704	39.46	473,561

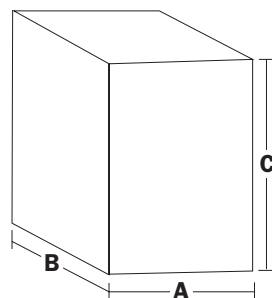
Performance based on 2.4 GPM per nominal ton on source side and 10° F rise on load side.

DIMENSIONS AND SPECIFICATIONS

MODEL NO	NO CIRCUITS	DIMENSIONS			OPER. WEIGHT	WATER CONN	R-22 LBS.
		A	B	C			
WP036	1	32.50	24.00	24.25	250	0.75	3.75
WP060	1	32.50	24.00	24.25	310	1.00	3.75
WP072	1	32.50	24.00	24.25	430	1.00	4.69
WP120	1	28.00	46.00	32.00	500	1.25	7.13
WP180	1	28.00	46.00	32.00	740	1.50	9.38
WP210	1	28.00	46.00	32.00	770	1.50	9.38
WP240	2	28.00	46.00	64.00	970	2.00	14.00
WP360	2	28.00	46.00	64.00	1490	2.00	18.75
WP420	2	28.00	46.00	64.00	1550	2.00	18.75

Note: condenser and evaporator water connections are equal size.

Represented By:



Typical Chiller Applications

- Commercial Air Conditioning
- Food Processing
- Spot Cooling
- Make-Up Air Applications
- Computer Room Cooling
- Clean Room Applications
- Hospital Operating Rooms
- Lab Testing Facilities
- Residential Air Conditioning
- Marine Cooling Applications
- 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 Applications
- Base Board Heating
- Swimming Pool Heating
- Potable 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, up to 17.2 EER

Selection Software

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



** WP036, WP060, WP072 OPTIONAL DOUBLE WALL HEAT EXCHANGER LOAD SIDE ONLY FOR POTABLE HOT WATER HEATING

FHP MANUFACTURING COMPANY

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heat pumps

970-191 Rev. 4/08

PERFORMANCE DATA

