



WATER SOURCE HEAT PUMP

**Horizontal Unit - Replaces
American Air Filter/ Enercon 'HW' Series**



NOMINAL CAPACITY:

9,000, 12,000, 19,000, 26,000, 33,000,
40,000, 51,000, 55,000 BTU/h

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Description:

Adirondack-Aire 'HW' Series is a direct replacement for *American Air Filter/ Enercon 'HW' series* ducted horizontal water source heat pump units. The 'HW' is a complete unit that contains the compressor, blower, air heat exchanger, water heat exchanger, and safety and control components. Low Voltage wiring is compatible with the **original wall thermostat**. **Duct connections** are identical and line right up with the **existing ductwork**. A full range of unit sizes are available and each are **dimensionally identical** to the original for a fast, easy, and trouble free installation. Proven technology, quality components, careful design and testing, and the latest in reliability and efficiency advances assure long life, user satisfaction, and lower energy cost! Consider the extensive list of standard features which includes: **powder painted drain pan**, refrigerant circuit **access ports**, **thermostatic expansion valve**, high

efficiency 'PSC' **blower motor** & dynamically **balanced DWDI blower wheel**, evaporator **freeze protection**, water coil **freezestat**, **high-pressure** over protection, and **lockout circuit**..... and *Adirondack-Aire* is the replacement solution the competition can't match. Heavy gauge **mounting brackets** and **isolation grommets** are provided. *Cold Point Corp.* backs the 'HW' with a customer friendly **one-year parts and labor** warranty and **five-year compressor** warranty, (see *Warranty* document for details).

Application & Benefits:

The *Adirondack-Aire 'HW'* series replacement units **fit the existing** space and ductwork without modifications. The unit installs without the need for **water loop shut-down** or **draining**. Water, drain, hanger bracket, ductwork, and electrical connections **line right up** to the original installation. The standard high-pressure switch and evaporator coil freeze protection stops unit operation **before damage occurs** should airflow become reduced or obstructed due to dirty coils, obstructed airflow, or motor failures or lock-up. A freezestat protects the water coil from **freeze damage** due to water temperature or flow problems. The water coil is designed for low water-side pressure drop eliminating potential **pump sizing** and **water flow** problems. High efficiency compressors provide demonstrated **reliability** and **low sound** levels and cut **energy costs**...and because the chassis dimensions and construction details are like the original, replacement work is **fast and easy**. Using *Adirondack-Aire* replacements **eliminates** the need for **room renovation**, **redecorating**, **ductwork** and **pipng changes** and is *the solution* that gets your property back in service quickly and at the **lowest total cost**.

Options/Accessories:

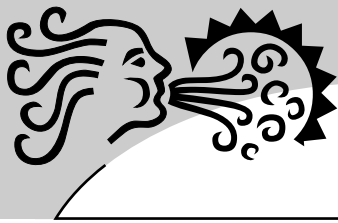
•115V, 265/ 277V 1Φ, 208/230V 3Φ, 460V 3Φ
(availability varies by model size)

•Flow control valve
•Hose kits

•Unit mounted filter

Standard Features

- | | |
|---|---|
| 1). Made in USA | 9). DWDI centrifugal blower w/high efficiency PSC motor |
| 2). Designed for easy installation & compatibility. Dimensionally identical to original <i>American Air Filter/Enercon</i> unit | 10). Lock-out circuit with reset at thermostat or circuit breaker |
| 3). ETL APPROVED | 11). High Pressure switch |
| 4). Quiet, durable, and efficient compressor with built-in pressure & temperature protection | 12). Frost free cooling |
| 5). Heavy Gauge G90 galvanized steel construction | 13). Water coil freeze protection |
| 6). Powder painted drain pan | 14). Refrigerant circuit access ports |
| 7). High efficiency copper tube-aluminum fin evaporator coil | 15). Bi-flow thermostatic expansion valve |
| 8). High efficiency coaxial condenser coil with low water-side pressure drop | 16). Positive shift reversing valve |
| | 17). Precision charged with R-22 refrigerant |
| | 18). ½ " & ¾ " FPT water connections |



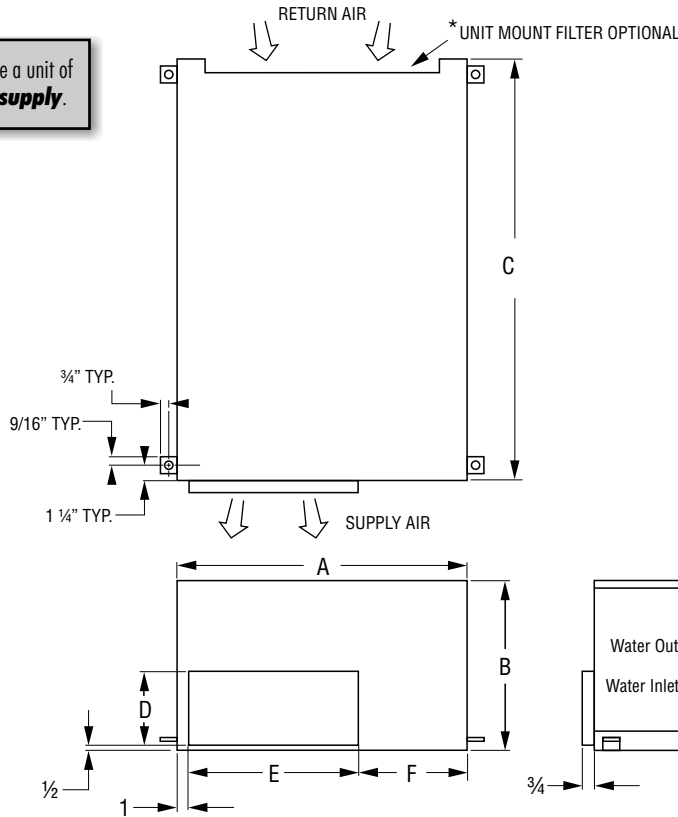
HW Dimensions and Specifications

Note: Due to Cold Point Corporation's ongoing quality & product development programs, design and specifications may change. Always consult factory to verify the information provided here.



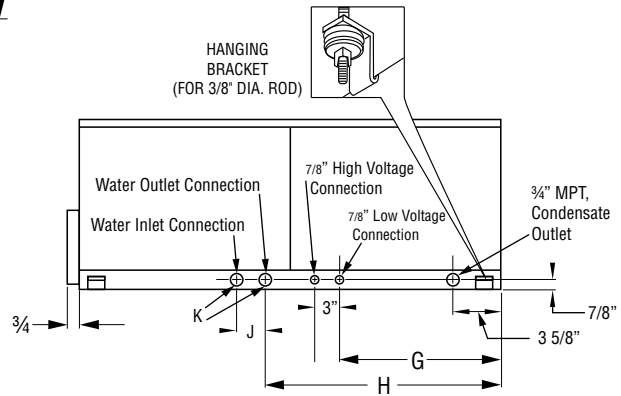
DIMENSIONAL DETAIL 'HW'

IMPORTANT! Chassis must replace a unit of like capacity to assure proper **power supply**.



Model No.	HW-09 HW-12	HW-19 HW-26	HW-33 HW-40	HW-51 HW-55
"A"	20"	25"	30"	36"
"B"	12"	16"	18"	20"
"C"	30"	35"	40"	44"
"D"	5"	6 1/2"	8"	12"
"E"	11 1/2"	14"	19"	21"
"F"	7 1/2"	10"	10"	14"
"G"	8 3/8"	13 5/8"	16 1/8"	18 7/8"
"H"	17 1/4"	21 3/8"	24"	26 3/4"
"J"	2 3/8"	2 3/8"	2 5/8"	2 5/8"
"K"	1/2" FPT	1/2" FPT	3/4" FPT	3/4" FPT

Model No.	Chassis Weight (lbs)
09	120
12	125
19	175
26	180
33	245
40	256
51	310
55	335



HW-Series Performance Ratings*

Model	COMP	Cooling			Heating		Water Coil		CFM	
		BTUH	SENS BTUH	EER	BTUH	COP	GPM	P-D(ft)	Rated	ESP.
09	Recip.	10,000	7,800	11.4	12,000	3.6	2.5	5.1	300	0.10"
12	Recip.	12,900	9,000	10.7	16,000	3.3	3.2	6.5	450	0.15"
19	Recip.	19,000	14,000	12.1	22,500	4.1	4.7	4.5	600	0.20"
26	Recip.	26,300	19,400	12.5	30,700	4.0	6.2	10.8	800	0.20"
33	Recip.	32,000	22,800	11.8	36,000	3.7	8.0	6.4	1,000	0.30"
40	Recip.	39,800	28,400	12.4	48,000	4.1	9.5	10.0	1,200	0.30"
51	Recip.	50,000	37,000	13.6	56,000	4.5	12.8	12.6	1,600	0.40"
55	Recip.	55,100	40,800	11.7	63,200	4.1	13.2	18.7	1,800	0.40"

*Rated in Accordance with ARI standard #320

HW Specifications

Model Number	HW 09	HW 12	HW 19	HW 26	HW 33	HW 40	HW 51/55
Blower Motor H.P.	1/5	1/5	1/5	1/5	1/3	1/3	1/2
Blower Wheel (in. d X w)	7 1/2 x 7 5/8	7 1/2 x 7 5/8	9 1/2 x 6	9 1/2 x 6	9 1/2 x 9 1/2	9 1/2 x 9 1/2	10 5/8 x 10 5/8
Nominal Rated CFM	400	400	600	800	1,000	1,200	1,600
Air Coil Face Area (ft ²)	1.11	1.11	2.04	2.04	2.45	2.89	4.0
Coil Rows	3	3	2	3	3	3	4
Filter W X H (in.) - 1" thick*	18 x 11	18 x 11	23 x 15	23 x 15	28 x 17	28 x 17	34 x 19

*Filter Optional

HW Electrical Specifications

Model	Voltage/ HZ/Ph*	FAN HP	FAN AMPS	Comp RLA	Comp LRA	TOTAL AMPS	MAX FUSE	MIN. Volts
09	208/230/60/1	1/5	1.2	3.5	20.0	4.7	15	197
09	265/60/1	1/5	1.2	3.1	16.0	4.3	15	240
12	208/230/60/1	1/5	1.2	5.5	31.2	6.7	15	197
12	265/60/1	1/5	1.2	4.8	27.0	6.0	15	240
19	208/230/60/1	1/5	1.2	6.8	48.0	8.0	15	197
19	265/60/1	1/5	1.2	5.8	41.0	7.0	15	240
26	208/230/60/1	1/3	2.7	12.3	60.0	14.7	20	197
26	265/60/1	1/3	1.9	8.2	58.0	10.1	20	240
33	208/230/60/1	1/3	2.7	11.8	73.0	14.5	25	197
33	460/60/3	1/3	.8	4.1	36.0	4.9	15	414
40	208/230/60/1	1/3	2.7	14.4	86.0	17.1	35	197
40	460/60/3	1/3	5.7	4.9	40.0	5.7	15	414
51	208/230/60/1	1/2	3.4	16.7	105.0	20.1	35	197
51	460/60/3	1/2	1.2	5.6	54.0	6.8	15	414
55	208/230/60/1	1/2	3.4	19.2	135.0	22.6	45	197
55	460/60/3	1/2	1.2	6.2	69.0	7.4	15	414

*115V, 208/230V 3ph, 265/277V, 460V 3ph, (availability varies by model size)



08-08