



**R-407C**

## ***WP-H(V) SERIES***

### ***WATER SOURCE HEAT PUMP PACKAGE UNIT***



#### **Standard Features:**

***Cooling capacity from 2.8 kW to 45.9 kW in 15 sizes***

***EER from 3.7 to 4.4***

***COP from 3.9 to 4.7***

***HP3C Digital controller with:***

- Compressor Protection***
- Random Start***
- Condensate Overflow Protection***
- Shut Down Relay***
- Fan speed control***

***Compact dimensions***

#### **Options:**

***Stainless steel flexible hoses***

***Hot water coil***

***1- or 2- stage electric heater***

***Air discharge muffler***

***Low Temperature Geothermal Application***



**PACKAGE TYPE WSHP**

**PRELIMINARY SPECIFICATIONS**

**WP-H(V) SERIES**

Model		WP-L009H(V)	WP-L013H(V)	WP-L016H(V)	WP-L019H(V)	WP-L024H(V)	WP-L030H(V)	WP-J043H(V)	WP-J052H(V)	WP-J062H(V)	WP-J072H(V)	WP-J086H(V)	WP-J100H(V)	WP-J120H(V)	WP-J142H(V)	WP-J170H(V)	
Cooling Capacity		2.8	3.3	4.3	5.2	5.9	7.8	10.2	12.0	14.7	17.7	21.0	26.6	32.0	36.1	45.9	
Sensible cooling capacity		2.5	2.9	3.8	4.6	5.2	6.8	8.9	10.5	12.9	15.5	17.8	22.5	27.1	30.6	38.9	
Heating Capacity		3.0	4.2	5.4	6.3	7.3	9.2	12.2	14.5	18.0	21.1	23.5	32.7	39.7	43.5	54.7	
Power Input	Cooling	730	870	980	1330	1550	2100	2760	2790	3870	4210	5000	6200	7800	9600	11200	
	Heating	730	1000	1290	1620	1870	2190	3130	3090	4500	4795	3950	7000	8700	11000	12200	
EER		3.8	3.8	4.4	3.9	3.8	3.7	3.7	4.3	3.8	4.2	4.2	4.3	4.1	3.8	4.1	
COP		4.1	4.2	4.2	3.9	3.9	4.2	3.9	4.7	4.0	4.4	4.5	4.7	4.6	4.0	4.5	
Current	Cooling	4.1	4.9	5.4	7.4	8.6	11.6	5.6	5.7	7.5	8.4	9.6	11.5	14.4	17.8	20.7	
	Heating	4.4	5.5	7.1	9.0	10.3	12.8	6.4	6.7	8.8	9.5	11.1	13	16.1	20.4	22.6	
Electric heater		1.0	1.0	2.0	3.0	4.0	4.0	7.0	8.0	10.0	10.0	-	-	-	-	-	
Electric heater Current		6.8	9.0	11.4	13.6	16.0	20.5	9.1	11.4	13.7	16.0	-	-	-	-	-	
Power Supply		220 - 240V / 1 / 50Hz							380V / 3 / 50Hz								
Noise Level		43	44	45	45	46	46	47	48	49	50	52	55	56	58	58	
Air Flow		382	511	763	893	1019	1274	1782	2293	2549	2675	3400	4750	6000	7130	6370	
Water Flow		0.60	0.80	0.90	1.20	1.40	1.80	2.70	3.20	3.60	4.10	5.0	6.1	7.2	8.1	10.1	
Pressure Drop		15.90	16.60	22.10	33.80	41.90	66.90	66.90	53.80	42.70	51.70	30.0	34.0	36.0	40.0	43.0	
External Static Pressure		40	50	50	75	75	80	80	100	100	100	150	150	150	150	350	
Compressor Type/No.		Rotary/1							Scroll/1								
Refrigerant		R22/R407C															
Charge		0.397	0.567	0.624	0.737	0.85	1.134	1.616	1.871	2.438	2.665	2*2	2.5*2	2.2*2	2.5*2	2.5*3	
Dimensions (LxWxH)	Horizontal (H)	887x483x400	887x483x400	989x508x500	989x508x500	989x508x500	1217x559x535	1217x559x535	1471x686x600	1471x686x600	1471x686x600	2032x865x711				1448x977x1300	
	Vertical (V)	527x527x813	527x527x813	527x527x813	527x527x813	527x527x813	597x597x927	597x597x927	711x711x1118	711x711x1118	711x711x1118	1258x876x1300					
Net Weight		59	60	80	80	85	100	130	150	160	170	279	296	325	344	364	
Size of pipe connected		Rc 3/4							Rc 1			Rc 1-1/4				Rc2	
Size of drain pipe		0.875															
Supply duct size	Height	203	203	208	262	262	262	290	290	290	290	293	341	341	404	462	
	Width	181	181	236	236	236	236	276	276	276	276	331	395	395	373	433	

09V.1.0

Note:

All capacities are based on: cooling: Inlet air temp. 27°C (DB+), 19°C (WB++); Inlet water temp. 30°C, Outlet water temp. 35°C.  
 heating: Inlet air temp. 20°C (DB), 15°C (WB++); Inlet water temp. 20°C.

Electric heater is not a standard in size 86-180



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