

# PIONEER®

**Air Conditioning & Heat Pump Systems**

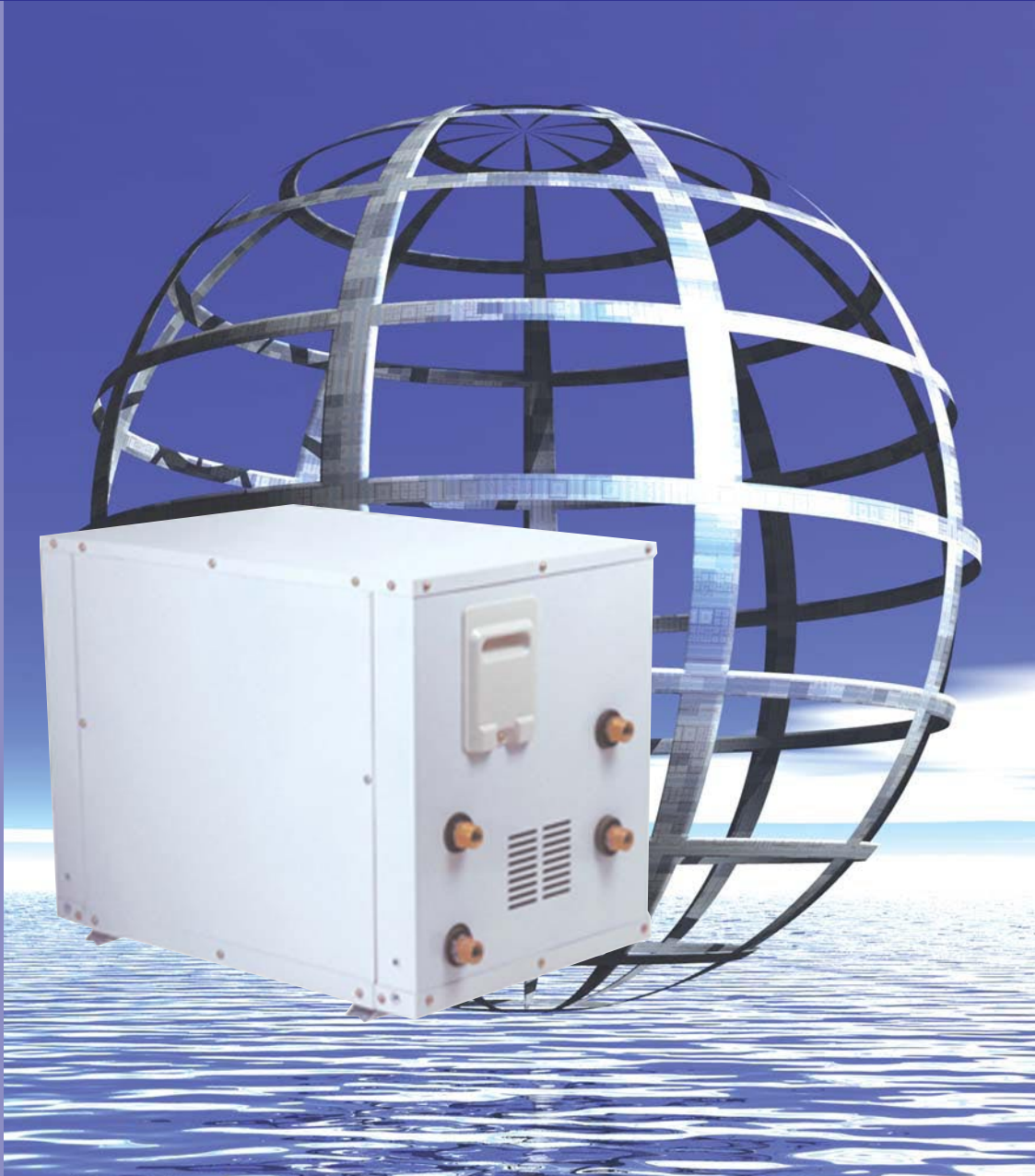
The "right choice" for those who want the "Best"....

## KYW Series SPECIFICATIONS

**Water to Water Heat Pump Package Units**

**Heating and Cooling**

**18,000 through 150,000 BTU/Hr.)**



**Input Power Selection:**

G Series : 208~230/1/60

H Series : 208~230/3/60

W Series : 220~220/1/50

J Series : 200~230/3/50

Z Series : 380~415/3/50

**Refrigerant Selection:**

A Series : R22

E Series : R407C

F Series : R410A

### STANDARD FEATURES

- SUPER HIGH OPERATING EFFICIENCY
- MONOBLOCK COMPACT DESIGN FOR UTMOST INSTALLATION FLEXIBILITY
- DIGITAL REMOTE CONTROL MODULE
- SOPHISTICATED ELECTRONIC SAFETY CONTROLS
- HEAVY GAUGE ZINK COATED GALVANIZED STEEL CASING
- DURABLE POLYESTER-URETHANE PAINT
- TESTED IN 950 HOURS OF SALT SPRAY
- VARIOUS REFRIGERANT OPTIONS
- VARIOUS HEAT EXCHANGER OPTIONS
- HIGH EFFICIENCY DUAL CIRCULATION PUMPS
- HIGH PERFORMANCE HEAT EXCHANGER CIRCUITRY
- DURABLE HERMETICALLY SEALED COMPRESSOR
- COMPRESSORS WITH INTERNAL SPRING ISOLATION & SOUND MUFFLING
- TEMPERATURE / CURRENT COMPRESSOR OVERLOADS
- EASY SERVICE ACCESS TO ALL MAJOR COMPONENTS AND CONTROLS

		KYW-18L	KYW-24L	KYW-30L	KYW-36L	KYW-42	KYW-48L	KYW-60L	KYW-72L	KYW-90L	KYW-120L	KYW-150L			
Refrigerant		R410A*/R407C/R22													
Power Supply		220~240V/50HZ/1PH* 208~230V/60HZ/1PH					308~420V/50HZ/3PH*, 208~230V/60HZ/3PH								
Water-Loop*															
Cooling Cap.	BTU/h	13100	17400	22100	25600	30800	36400	44800	52500	64100	92200	110100			
	KW	3.8	5.1	6.5	7.5	9.0	10.7	13.1	15.4	18.8	27.0	32.2			
Heating Cap.	BTU/h	17400	23200	29400	34100	41000	48500	59700	70000	85400	122900	146800			
	KW	5.1	6.8	8.6	10.0	12.0	14.2	17.5	20.5	25.0	36.0	43.0			
Energy Input(Cooling)	EER.	3.5	3.6	3.1	3.0	3.0	3.1	3.0	3.0	3.0	3.1	3.4			
	KW	1.1	1.4	2.1	2.5	3.0	3.5	4.4	5.1	6.2	8.8	9.6			
	A	5.6	7.1	10.6	12.6	5.1	5.9	7.4	8.6	10.5	14.9	16.2			
Energy Input(Heating)	COP.	4.3	4.3	3.6	3.6	3.5	3.6	3.6	3.7	3.6	3.7	4.1			
	KW	1.2	1.6	2.4	2.8	3.4	4.0	4.8	5.6	6.9	9.8	10.6			
	A	6.1	8.1	12.1	14.1	5.7	6.8	8.1	9.5	11.6	16.5	17.9			
Ground-Water*															
Cooling Cap.	BTU/h	14150	18790	23870	27650	33260	39310	48380	56700	69230	99580	118910			
	KW	4.1	5.5	7.0	8.1	9.7	11.5	14.2	16.6	20.3	29.2	34.8			
Heating Cap.	BTU/h	14616	19488	24696	28644	34440	40740	50148	58800	71736	103236	123312			
	KW	4.3	5.7	7.2	8.4	10.1	11.9	14.7	17.2	21	30.2	36.1			
Energy Input(Cooling)	EER.	4.1	4.2	3.5	3.5	3.6	3.5	3.6	3.6	3.6	3.7	4.0			
	KW	1.0	1.3	2.0	2.3	2.7	3.3	4.0	4.6	5.7	8.0	8.7			
	A	5.1	6.6	10.1	11.6	4.6	5.6	6.8	7.8	9.6	13.5	14.7			
Energy Input(Heating)	COP.	3.6	3.8	3.1	3.1	3.2	3.1	3.2	3.2	3.2	3.2	3.6			
	KW	1.2	1.5	2.3	2.7	3.2	3.8	4.6	5.3	6.5	9.3	10.1			
	A	6.1	7.6	11.6	13.6	5.4	6.4	7.8	8.9	11.0	15.7	17.1			
Ground-Loop*															
Cooling Cap.	BTU/h	14150	18790	23870	27650	33260	39310	48380	56700	69230	99580	118910			
	KW	4.1	5.5	7.0	8.1	9.7	11.5	14.2	16.6	20.3	29.2	34.8			
Heating Cap.	BTU/h	12180	16240	20580	23870	28700	33950	41790	49000	59780	86030	102760			
	KW	3.6	4.8	6	7	8.4	9.9	12.2	14.4	17.5	25.2	30.1			
Energy Input(Cooling)	EER.	4.1	4.2	3.5	3.5	3.6	3.5	3.6	3.6	3.6	3.7	4.0			
	KW	1.0	1.3	2.0	2.3	2.7	3.3	4.0	4.6	5.7	8.0	8.7			
	A	5.1	6.6	10.1	11.6	4.6	5.6	6.8	7.8	9.6	13.5	14.7			
Energy Input(Heating)	COP.	3.0	3.0	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.9			
	KW	1.2	1.6	2.3	2.8	3.3	4.0	4.7	5.5	6.7	9.6	10.4			
	A	6.1	8.1	11.6	14.1	5.6	6.8	7.9	9.3	11.3	16.2	17.6			
Compressor Type		Rotary			Rotary			Scroll			Scroll		Scroll		
Compressor Qty.		1	1	1	1	1	1	1	1	1	2	2			
Comp.Rated Input		W	1206	1610	2320	2830	3320	3830	4700	5220	6640	9500	10440		
Indoor Side(Load side)															
Heat-Exchanger Type		Tube-tube//Tube-Shell/Plate					Tube-tube//Tube-Shell/Plate								
Water Pump		W	90	90	180	180	250	370	370	550	550	750	750		
Water Flow		L/min	20.9	20.9	35.5	35.3	41.4	56.6	56.6	83.2	83.2	135	135		
Water Head		m(H2O)	4	4	5	5	5	7	7	9	9	11	11		
Water Pre. Drop		m(H2O)	0.7	0.7	1.1	1.4	1.5	1.8	1.8	2.1	2.1	1.8	1.8		
Water connection		Inch	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"		
Outdoor Side(Source side)															
Heat-Exchanger Type		Tube-tube//Tube-Shell/Plate					Tube-tube//Tube-Shell/Plate								
Water Pump		W	90	90	180	180	250	370	370	550	550	750	750		
Water Flow		L/min	20.1	20.1	34.1	33.9	39.7	54.3	54.3	79.9	79.9	129.6	129.6		
Water Head		m(H2O)	4	4	5	5	5	7	7	9	9	11	11		
Water Pre. Drop		m(H2O)	0.7	0.7	1.1	1.4	1.5	1.8	1.8	2.1	2.1				
Water connection		Inch	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"		
Noise Level		dB(A)	40	40	40	42	42	43	43	46	46	47	47		
Net Dimension(LxDxH)		mm	754/465/500			854/505/529			854/505/686			1010/655/850		1320/780/980	
Packing Dim. (LxDxH)		mm	804/520/520			904/560/549			904/560/706			1060/715/870		1370/830/1000	
Net Weight		kg	65	73	85	96	103	115	127	141	153	187	205		
Shipping Weight		kg	71	79	93	104	111	125	137	151	163	199	220		

Measurement Conditions*--	Water Temp. °C-cooling function		Water Temp. °C-heating function	
	Load side--Inlet	Source side--Inlet	Load side--Inlet	Source side--Inlet
R410A/50HZ	12°C	30°C	40°C	20°C
Water-loop	12°C	30°C	40°C	20°C
Ground-water	12°C	25°C	40°C	10°C
Ground-loop	12°C	25°C	40°C	0°C