

# PIONEER®

**Air Conditioning & Heat Pump Systems**

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

## KDT Series SPECIFICATIONS

**Domestic Water Heaters (Heat Pumps)**

**Split DX Heating Heat Pump and Storage Tank**

**Nominal 4,400 Watt or 6,500 Watt Heating**



Water Storage Tank With Heat Exchanger

Digital Wired Remote Controller System

Split Heat Pump Outdoor Module

**ULTRA HIGH EFFICIENCY  
PRODUCES 4.4 KW HEAT FOR  
EVERY 1 KW OF ELECTRICAL  
POWER CONSUMED**

Input Power Selection:

A Series : 110~125/1/60

(Without Electric Heater)

G Series : 208~230/1/60

W Series : 220~220/1/50

Refrigerant Selection:

A Series : R22

E Series : R407C

F Series : R410A

Optional Accessories:

- ELECTRIC BACKUP HEATER (2 STAGE)  
1+1 or 1.5+1.5 KW

### STANDARD FEATURES

- SUPER HIGH OPERATING EFFICIENCY (450 % AT RATED CONDITIONS)
- STAINLESS STEEL WATER STORAGE TANK
- PHENOLIC COATED HIGH EFFICIENCY COPPER HEAT EXCHANGERS ON ALL MODELS
- COMPACT SPLIT DESIGN FOR UTMOST INSTALLATION FLEXIBILITY
- DIGITAL WIRED REMOTE CONTROL MODULE
- SOPHISTICATED ELECTRONIC SAFETY CONTROLS
- OPTIONAL ELECTRIC BACKUP HEATERS (2 STAGE)
- TIME-DEMAND DEFROST CIRCUITRY
- TEMPERATURE AND PRESSURE RELIEF VALVE SYSTEM
- SPECIAL ALLOY SACRIFICIAL ANODE FOR PREVENTION OF OXIDIZATION OF COMPONENTS
- HEAVY GAUGE ZINC COATED GALVANIZED STEEL OUTER CASING
- DURABLE POLYESTER-URETHANE PAINT TESTED IN 950 HOURS OF SALT SPRAY
- HEAVY CONDENSITY POLYURETHANE INTERNAL INSULATING FOAM
- VARIOUS REFRIGERANT OPTIONS
- COPPER TUBE / ALUMINUM FIN EVAPORATOR COILS TESTED AT 425 PSI
- FAN MOTORS WITH INTERNAL OVERLOAD PROTECTION
- DYNAMICALLY BALANCED HIGH VOLUME PROPELLER FAN
- PERMANENTLY LUBRICATED FAN MOTOR BEARINGS
- DURABLE HERMETICALLY SEALED COMPRESSOR
- COMPRESSORS WITH INTERNAL SPRING ISOLATION & SOUND MUFFLING

**UNIT SPECIFICATIONS - DOMESTIC WATER HEATER - SPLIT HEAT PUMP** **Model: KDT**

		44-100	44-150	44-200	65-200	65-260	65-300
<b>Application</b>		<b>Heat Pump Water Heating System for Domestic Water</b>					
Storage Water Capacity (Liters)		100	150	200	200	260	300
Heating Capacity (WATT) and Efficiency (COP) Data (measured at 50° C water temp):	@ +27° C	4,800 Watt 4.3 COP			7,500 Watt 4.4 COP		
	@ +15° C	4,400 Watt 3.9 COP			6,500 Watt 4.0 COP		
	@ +10° C	3,600 Watt 3.3 COP			5,600 Watt 3.3 COP		
	@ +5° C	3,200 Watt 2.9 COP			5,000 Watt 2.9 COP		
	@ 0° C	2,800 Watt 2.6 COP			4,500 Watt 2.6 COP		
	@ -5° C	2,500 Watt 2.4 COP			4,000 Watt 2.4 COP		
Electrical Data:	Power Input (watts) @ +15° C Nominal without electric heaters	1,130			1,625		
	Optional Electrical Heater Watts	Two Stages 1,000 + 1,000 Watts			Two Stages 1,500 + 1,500 Watts		
	Input Voltage	Code A : 110 - 125 / 1 / 60 (Not Available for models with heaters) Code G : 208 - 230 / 1 / 60 - Code W : 200 - 240 / 1 / 50					
	Acceptable Voltage Range	Code A : 99 ~ 138 - Code G : 187 ~ 253 - Code W : 180 ~ 264					
Control System	Controller Type	Digital electronic controller w/integrated safeties and defrost function					
	Water Temperature Set Range	+30° C ~ +50° C for Heat Pump +30° C ~ +75° C for Heater Operation					
	Recommended Outdoor Operational Temperature Range	-10° C ~ +40° C					
	Location options	Wired remote type with tank sensor					
Heat Exchanger	Type	Phenolic coated multi circuit enhanced copper tubing					
	Size and # of Circuits	3/8" x 20 meters - 2 circuits			3/8" x 30 meters - 3 circuits		
	Refrigerant Connections	Flare Type 1/2" In - Out					
Fan Motor Data:	Fan Quantity	1					
	Motor Watts	75			90		
	Fan Type	Quiet glass infused plastic axial fan					
Evaporator Data:	Coil Type	Enhanced hydrophilic aluminum plate fins, mechanically bonded to rifled copper tubes					
	Tube Diameter (In.)	3/8					
Compressor Data:	Compressor Type, Quantity	Rotary - 1			Rotary - 1		
	Compressor Watts	1,075			1,550		
Water Connections:	Type	NPT Thread					
	Size (Cold Water In - Hot Water Out)	3/4 Inch					
	Size (Drain and Overflow)	1/2 Inch					
Outdoor Heat Pump Unit Dimensions & Weight: NET ACTUAL	Depth [mm]	850			850		
	Width [mm]	270			270		
	Height [mm]	550			550		
	Weight [Kg]	35			39		
Outdoor Heat Pump Unit Dimensions & Weight: SHIPPING	Depth [mm]	930			930		
	Width [mm]	340			340		
	Height [mm]	600			600		
	Weight [Kg]	38			42		
Indoor Water Tank Dimensions & Empty Weight: NET ACTUAL	Diameter [mm]	400	500	500	500	600	600
	Height [mm]	1,200	1,060	1,400	1,400	1,290	1,550
	Weight [Kg]	29	34	44	44	55	65
Indoor Water Tank Dimensions & Empty Weight: SHIPPING	Depth [mm]	430	530	530	530	630	630
	Width [mm]	430	530	530	530	630	630
	Height [mm]	1,230	1,090	1,430	1,430	1,320	1,320
	Weight [Kg]	34	39	49	49	59	69

CONTINUING ENGINEERING RESEARCH RESULTS IN STEADY IMPROVEMENTS. THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALWAYS CONSULT EQUIPMENT NAME-PLATE FOR EXACT ELECTRICAL REQUIREMENTS.