

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
Application		Heat Pump Water Heating System for Domestic Water					
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.