P-K DURATION III®



"Big Things Come in Small Packages"

Rep Name:		Project:
Phone Number:		Location:
Email:		Address:
Date: / /		
Overview		
, , , , , , , , , , , , , , , , , , ,		t Domestic Hot Water system specifically engineered to complement any hot fownership though simplicity, high efficiency, durability and ease of installation.
9 ,		ainless steel brazed-plate heat exchanger. All wetted parts (potable water side) copper alloy materials. The construction features a double-wall heat exchanger
Available Models		
Instantaneous Models	Model Highlights:	
Model Number Part Number □ D3-30I DWH3030102 □ D3-50I DWH3050102 □ D3-80I DWH3080102	These models are opposite hot domestic electronically control around the heat exception.	lesigned to be used with a large supply of hot water. These models are designed to c water without the use of a storage tank. The boiler side piping features an illed three-way control valve that diverts the flow of the boiler water through or changer, depending on the load. Both the boiler and domestic side piping come with domestic piping comes with various temperature and pressure meauring devices to eating.
Pumped Models	Model Highlights:	
Model Number Part Number □ D3-30P DWH3030202 □ D3-30PE DWH3030212 □ D3-50P DWH3050202 □ D3-50PE DWH3050121	These models are of water supply. This recan be ordered with line from the domes	lesigned to be closely coupled to a condensing boiler and a storage tank for hot nodel group comes with both boiler side and domestic side pumps. These models an optional air expansion tank installed on the boiler side piping coupled with a fill tic piping. The domestic piping comes with various temperature and pressure to maintain accurate heating.

Notes:

Base Models

Model Number

D3-30

D3-50

D3-80

-All DURATION III models are designed to be able to be mated side by side to reduce their footprint.

Model Highlights:

with these models.

-Patterson-Kelley reserves the right to make changes at any time without notice.

Part Number

DWH3030002

DWH3050002

DWH3080002



These models provide a versatile platform to deliver hot water solutions. This design allows for the

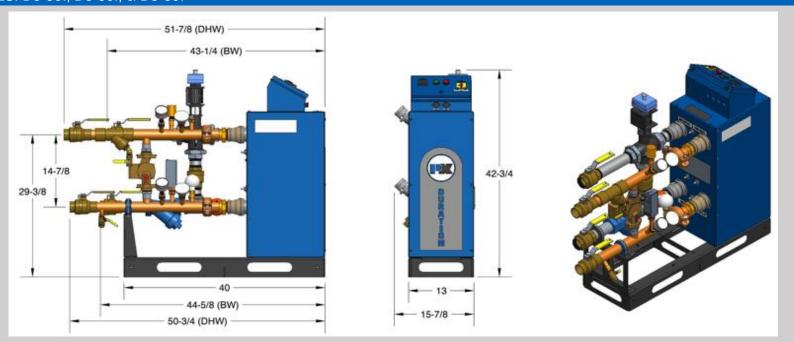
customer to install the piping, pumps, controls, and etc. of their choosing on our platform, cabinet, heat

exchanger, and control panel. Optional parts and accessories are available, but do not come standard

P-K DURATION III Instantaneous PATTERSON-KELLEY 38



MODELS: D3-30I, D3-50I, & D3-80I



*Dimensions of pipe length can vary slightly due to joint engagement

DURATION III INSTANTANEOUS PERFORMANCE SPECS								
DHW Temperature Rise	Duration III Model	DHW Flow Rate	DHW Pressure Drop	Boiler Water Inlet	Boiler Water Outlet	Boiler Water Flow Rate	Boiler Water Pressure Drop	
	D3-30I	25 GPM	5.1 ft.	160°F	105°F	46 GPM	17.2 ft.	
40 °F to 140 °F	D3-50I	45 GPM	5.7 ft.			83 GPM	19.4 ft.	
	D3-80I	65 GPM	5.3 ft.	160°F	100°F	100 GPM	12.4 ft.	
	D3-30I	50 GPM	20.4 ft.	150°F	105°F	68 GPM	37.7 ft.	
60 °F to 120 °F	D3-50I	70 GPM	13.8 ft.			94 GPM	24.8 ft.	
	D3-80I	82 GPM	8.4 ft.	150°F	100°F	100 GPM	12.4 ft.	

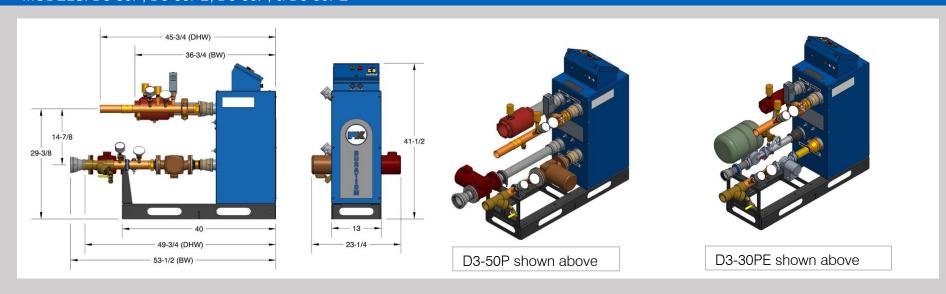
Models	D3-30I	D3-30I	D3-80I		
# Plates in Heat Exchanger	30	50	80		
DHW Heat Exchanger Type	ASME Section VIII – Div. 1 "U" Stamp Double-Wall Brazed Plate				
Plate & Brazing Material	316 Stainless Steel Plates w/ Copper Brazing				
Domestic Water (Open Loop)	2" O.D. Lead-Free Copper				
Piping Detail	Terminates with 2" Ball Valves (Sweat)				
Boiler Water (Closed Loop) Piping	2" Schedule 40 Steel Pipe				
Detail	Terminates with 2" Ball Valves (NPT-F)				
Boiler Water Flow Device	Electronically Controlled 3-Way Diverting Valve				
Electrical Supply	120VAC, 1 Phase, 60Hz (10 Amps Max)				



P-K DURATION III Pumped



MODELS: D3-30P, D3-30PE, D3-50P, & D3-50PE



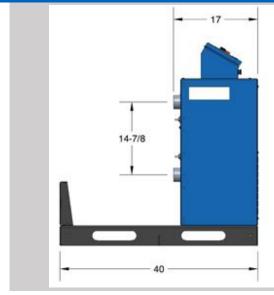
*Dimensions of pipe length can vary slightly due to joint engagement and model selection

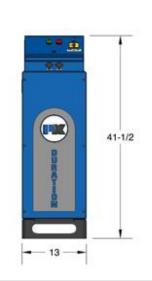
Models	D3-30P/D3-30PE	D3-50P/D3-50PE	
# Plates in Heat Exchanger	30	50	
DHW Heat Exchanger Type	ASME Section VIII – Div. 1 "U" Stamp Double Wall Brazed Plate		
Plate & Brazing Material	316 Stainless Steel Plates w/ Copper Brazing		
Domestic Water (Open Loop) Piping Detail	2" O.D. Lead-Free Copper Terminates with 2" tube connection		
Domestic Water Flow Device	Lead-Free Bronze Circulation Pump		
Boiler Water (Closed Loop) Piping	2" Schedule 40 Steel Pipe		
Detail	2" FPT connection	3" FPT connection	
Boiler Water Flow Device	Circulation Pump		
Electrical Supply	120VAC, 1 Phase, 60Hz (15 Amps Max)		

P-K Duration III Base



MODELS: D3-30, D3-50, & D3-80









P-K DURATION III Pumped Performance



