

COMMENTS:_

SUBMITTAL TRANSMITAL

	OODWITTAL	INANOWITAL
		March 27, 2012 Submittal No: 15400-00 5.B
PROJECT:	Harold Thompson Regiona Birdsall Rd. Fountain, CO 80817 Job No. 2908	al WRF
ENGINEER:	GMS, Inc. 611 No. Weber St., #300 Colorado Springs, CO 80 719-475-2935 Roger San	
OWNER:	Lower Fountain Metropo Sewage Disposal Distric 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James He	t
CONTRACTOR:	Contract Mechanical Ser P.O.Box 63323 Colorado Springs, CO 80 719-596-7717 Jeff Payne	0962
SUBJECT: Resul Model PDV40.	bmittal - Rheem Power D	irect Vent/Induced Draft Water Heater for EM Building -
SPEC SECTION:	15400 2.1 C.4	
PREVIOUS SUBM	MISSION DATES: 3/19/1	2
DEVIATIONS FRO	OM SPEC:YES _>	NO (approve as equal)
		ewed by Weaver Construction Management and, unless se with the intent of the contract documents.
Contractor's Stam	ip:	Engineer's Stamp:
Date: 3/27/12		
Reviewed by: Ch	uck Berry	
(x) Reviewed With () Reviewed With		
ENGINEER'S		

The new degree of comfort.™

Power Direct Vent induced draft gas water heater is a perfect choice for tight construction or when indoor air quality is a concern

Efficiency

• .62 - .67** EF

Performance

- FHR: Up to 139-gallons for natural and LP gas
- Recovery: 38.4 to 75.8 at a 90 degree rise, based on model

Self-Diagnostic System

 Integrated system control for easy installation and service



Low Emissions

• Eco-friendly burner, low NOx design

Features

- Two pipe system: one pipe pulls in outside air for combustion and the other exhausts combustion gases
- 120 VAC powered blower
- New whisper quiet blower

Flammable Vapor Detection System

 Protective control system that disables the heater in the presence of flammable vapor accumulation

Flexible Venting Options

- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination
- Concentric vent kit available

Longer Life

 Patented magnesium anode rod with resistor protects the tank from rust

High Altitude Compliant

 Models are certified for applications up to 10,200 feet above sea level

Plus...

- Brass drain valve and temperature and pressure relief valve are included
- Durable silicon nitride igniter (HSI)
- Side taps for space heating applications on 50-65, 65 and 75-gallon models
- EverKleen[™] device removes sediment
- Standard replacement parts

Warranty

- 6-Year limited tank and parts warranty*
- With ProtectionPlus™ the 6-year limited tank warranty becomes 10-year

*See Residential Warranty Certificate for complete information

Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.



Power Direct Vent

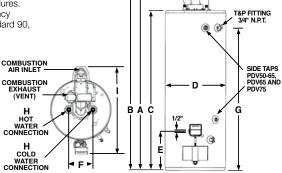
Induced Draft 40 to 75-Gallon Capacities Up to 75,100 Btu/h Natural and LP Gas











	DI	ESCRIPTION			FEAT	JRES				R	OUGHII	NG IN DI	MENSIC	NS (SH	OWN IN I	NCHE	S)	ENERGY INFO			INFO.
T Y P	GAL.	MODEL	GAS IN THOUS.		RECOVI G.P.H. 90			r Hour G.P.H.	HT. TO TOP OF VENT	HT. TO TOP OF AIR INLET	TANK HT.	DIAM.	HT. TO GAS CONN.	WATER CONN. CNTR.	HT. TO SIDE T&P VALVE	WATER CONN. SIZE	FRONT TO BACK	SHIP. WT.		RGY	AVG. ANN. OPER. COSTS
E	CAP.	NUMBER	NAT.	LP	NAT.	LP	NAT.	LP	A	В	С	D	E	F	G	Н	1	(LBS)	NAT.	LP	NAT.
	40	PDV40**	40	38	40.4	38.4	73	73	68-1/2	69-1/4	60-1/4	19-3/4	14	8	53-3/4	3/4	29-1/2	180	0.67	0.67	\$272
Ţ	50	PDV50**	40	40	40.4	40.4	93	93	67-5/8	67-7/8	59-3/8	21-3/4	14	8	52-3/4	3/4	31-1/2	205	0.67	0.67	\$272
l A L	50	PDV50-65	65	47	65.7	47.5	111	92	67-5/8	68-3/8	59-3/8	21-3/4	14	8	52-3/4	3/4	31-1/2	210	0.62	0.62	\$294
L	65	PDV65	65	56	65.7	56.6	120	113	71-1/4	72-1/4	61-3/4	23	14-5/8	11	54	3/4	34-1/4	285	0.62	0.62	\$294
	75	PDV75	75.1	70	75.8	70.7	139	139	70-3/8	71-1/4	60-1/2	26-1/4	15	11	53	1	36-3/4	325	_	0.62	\$495 [†]

†PDV75 LP annual operating cost.

Specify LP gas when ordering. Add "P" suffix to the model number. Example PDV40P.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.

^{**.67} EF exceeds ENERGY STAR® Phase II requirements, Sept. 2010.



Air-Inlet Venting Information for PDV40 and PDV50

	From Sea Level Through 5,999 ft. Above Sea Level									
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion						
Model	System Diameter (Inches)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet Lengths – Each Pipe Run (Ft.)	Air-Inlet System Termination						
PDV40	2	7	30	90° Elbows	Concentric*					
PDV40	3	7	60	90° Elbows	-					
PDV40	3	7	50	_	Concentric*					
PDV50	2	7	30	90° Elbows	Concentric*					
PDV50	3	7	60	90° Elbows	-					
PDV50	3	7	50	_	Concentric*					

	From 6,000 ft. Above Sea Level Through 7,700 ft. Above Sea Level									
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion						
Model	System Diameter (Inches)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet Lengths – Each Pipe Run (Ft.)	Air-Inlet System Termination						
PDV40	2	7	15	90° Elbows	-					
PDV40	2	7	30	_	Concentric*					
PDV40	3	7	60	90° Elbows	-					
PDV40	3	7	50	-	Concentric*					
PDV50	2	7	15	_	Concentric*					
PDV50	3	7	60	90° Elbows	-					
PDV50	3	7	50	_	Concentric*					

	From 7,701 ft. Above Sea Level Through 10,200 ft. Above Sea Level									
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion						
Model	System Diameter (Inches)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet System Termination						
PDV40	2	7	15	-	Concentric*					
PDV40	3	7	60	90° Elbows	-					
PDV40	3	7	50	-	Concentric*					
PDV50	3	7	60	90° Elbows	-					
PDV50	3	7	50	_	Concentric*					

Air-Inlet Venting Information for PDV50-65, PDV65 and PDV75

			′							
	From Sea Level Through 2,000 ft. Above Sea Level									
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion						
Model	System Diameter (Inches)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet Lengths – Each Pipe Run (Ft.)	Air-Inlet System Termination						
PDV50-65	3	7	50	90° Elbows	-					
PDV50-65	3	7	40	_	Concentric*					
PDV50-65	4	7	100	90° Elbows	-					
PDV65	3	8	50	90° Elbows	-					
PDV65	3	8	40	_	Concentric*					
PDV65	4	8	100	90° Elbows	-					
PDV75	3	8	50	90° Elbows	-					
PDV75	3	8	40	_	Concentric*					
PDV75	4	8	100	90° Elbows	-					

	From 2,001 ft. Above Sea Level Through 5,999 ft. Above Sea Level									
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion						
Model	System Diameter (Inches)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet System Termination						
PDV50-65	3	7	50	90° Elbows	_					
PDV50-65	3	7	40	-	Concentric*					
PDV50-65	4	7	100	90° Elbows	-					
PDV65	3	8	30	90° Elbows	_					
PDV65	3	8	20	-	Concentric*					
PDV65	4	8	100	90° Elbows	_					
PDV75	3	8	25	90° Elbows	_					
PDV75	3	8	20	-	Concentric*					
PDV75	4	8	100	90° Elbows	-					

	First COOK A New Control Transfer 7 700 A New Control										
	From 6,000 ft. Above Sea Level Through 7,700 ft. Above Sea Level										
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion							
Model	System Diameter (Inches)	Air-Inlet Lengths – Each Pipe Run (Ft.)	Air-Inlet Lengths - Each Pipe Run (Ft.)	Air-Inlet System Terminatio							
PDV50-65	3	7	50	90° Elbows	_						
PDV50-65	3	7	40	-	Concentric*						
PDV50-65	4	7	100	90° Elbows	_						
PDV65	4	8	40	90° Elbows	_						
PDV75	4	8	50	90° Elbows	-						

	From 7,701 ft. Above Sea Level Through 10,200 ft. Above Sea Level									
	Vent & Combustion Air-Inlet	Minimum Allowed Equivalent Vent & Combustion	Maximum Allowed Equivalent Vent & Combustion	Vent and Combustion						
Model	System Diameter (Inches)	Air-Inlet Lengths – Each Pipe Run (Ft.)	Air-Inlet Lengths – Each Pipe Run (Ft.)	Air-Inlet System Termination						
PDV50-65	3	7	25	90° Elbows	-					
PDV50-65	3	7	20	-	Concentric*					
PDV50-65	4	7	100	90° Elbows	ı					

[•] One 90° elbow is approximately equivalent to 5 feet of pipe. One 45° elbow is approximately equivalent to 2.5 feet of pipe.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Water Heating • 101 Bell Road Montgomery, Alabama 36117-4305 • www.rheem.com



 $^{^{\}star}$ Use only Rheem 3 inch concentric termination.