

High Altitude Kits for Elevations above 6000Ft / 1830M Options DJ20 & DJ21

FORM I-UD&APD Series-HA (11-14) Obsoletes Installation Form RZ-NA- I-UD-HA

APPLIES TO:

Standard Power Vent Unit Heaters: Models UDAP, UDBP and ADP

Separated Combustion Unit Heaters: Models UDAS and UDBS

Application

If a Standard Power Vent or Separated Combustion Unit Heater is being installed above 2,000 ft (610 M), the input rate must be derated. This is done by adjusting the valve outlet pressure as explained in the heater installation manual. In addition, if the heater is being installed at an altitude above 6,000 ft (1,830 M), the pressure switch must be changed.

The high altitude pressure switch ordered as Option DJ20 or DJ21, High Altitude Kit, varies by Model, Size and type of application. Option DJ20 or DJ21 is **REQUIRED** above 6,000 ft (1,830 M)

Be sure your kit matches your installation.

Kit Components

Option DJ20 Installed as	Std Power Vent Unit Heater	30	45	60	75	100	125	150	175	200	225	250	300	350	400	
a Std. Power Vented Fan	Pkg P/N	197	197117		197118			197117			201162				201163	
Type Unit	High Altitude Switch P/N	197031		197032			197031			201160				201161		
Heater	Negative Pressure OFF Setpoint "w.c."	0.35		0.45			0.35			1.00				1.30		
	Label Color	Pur	Purple		Pink			Purple			Brown				White	

Option DJ21 Installed as	Std Power Vent Unit Heater w/ Opt AV6	30	45	60	75	100	
a Std. Power Vented Fan	Pkg P/N	197119	197118	19	7120	197121	
Type Unit	High Altitude Switch P/N	197029	197032	19	6362	196388	
Heater with Option AV6 for Common	Negative Pressure OFF Setpoint "w.c."				0.55	0.50	
Venting	Label Color	Lt Blue	Pink	N	/hite	Orange	

Option DJ20 Installed as a Separated	Separated Combus- tion Unit Heater	30	45	60	100	125	150 175		200	225	250	300	350	400	
Combustion	Pkg P/N		1971	119		197121	197205	197117			201 [.]	162		201163	
Fan Type Unit	High Altitude Switch P/N	197029				196388	197030	197	031	201160				201161	
Heater	Negative Pressure OFF Setpoint "w.c."	0.60				0.50	0.40	0.35		1.00				1.30	
	Label Color	Lt Blue				Orange	Green	Purple		Brown				White	

Option DJ20 Installed as a Std.	Std Power Vent Unit Heater	30 45		60	75	100	100 125 150 175		200	225	250	300	350	400	
Power Vented	Pkg P/N 197117 Type High Altitude Switch P/N 197031		/117	197118		197117			201162				201163	201162	
Blower Type			/031	197032				201	160	201161	201160				
Unit Heater	Negative Pressure OFF Setpoint "w.c."	0.25		0.45		0.35				1.00				1.30	1.00
	Label Color	Purple		Pink		Purple				Brown				White	Brown

Option DJ20 Installed as a Separated	Separated Combus- tion Unit Heater	30	45	60	75	100	125	150	175	200	225	250	300	350	400
Combustion	Pkg P/N	197117	197118	202103	197118	197117	197205	197118 201162				201163	201162		
Blower Type	High Altitude Switch P/N	197031	197032	196362	197203	197031	197030	197031		201160				201161	201160
Unit Heater	Negative Pressure OFF Setpoint "w.c."	0.35	0.45	0.55	0.45	0.35	0.40	0.35		1.00			1.30	1.00	
	Label Color	Purple	Pink	White	Pink	Purple	Green	Pur	ple		Bro	wn		White	Brown

Installation Instructions



Figure 1 Pressure Switch

Figure 2

Pressure Switch Location (UDAP unit is illustrated) Pressure switch is in the same location for all models

WARNING: The instructions in this sheet are designed to prepare a heater for high altitude operation prior to installation. If your heater is installed, for your safety, turn off the gas and electric before servicing.

The high altitude kit is to be selected and installed by a qualified service person in accordance with these instructions and in compliance with all codes and requirements of authorities having justification. The qualified agency performing this work assumes responsibility for this installation.

- 1. In the control compartment, locate the pressure switch (See FIGURES 1 & 2).
- 2. Sizes 30 125: On the back wall of the control compartment. Sizes 150 - 400: On the bracket on the bottom of the control compartment.
- 3. Mark & disconnect the two wires attached to the pressure switch.
- 4. Locate the two screws holding the switch mounting bracket. Remove the screws (save screws) and the pressure switch.
- 5. Using the same screws, install the high altitude pressure switch. Attach the sensing tube and wires.



	Manifold Pressure Settings by Altitude above 6,000 ft (1,830 M)											
Altit	ude	Natural Gas	(inches w.c.)	Propane Gas (Inches w.c.)								
Feet	Meters	Single & Two Stage High Fire	Two Stage Low Fire	Single & Two Stage High Fire	Two Stage Low Fire							
6,001 - 7,000	1,831 - 2,135	2.6	1.3	7.4	3.7							
7,001 - 8,000	2,136 - 2,440	2.5	1.3	7.1	3.5							
8,001 - 9,000	2,441 - 2,745	2.4	1.2	6.7	3.4							
9,001 - 10,000	2,746 - 3,045	2.3	1.2	6.7	3.4							

IMPORTANT: When the heater is installed, as part of startup, **be certain to adjust the valve outlet pressure and to attach the high altitude adjustment label** that is shipped with the heater. Adjustment instructions and derated input rates and capacities are in the heater installation manual.

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