



**REZNOR<sup>®</sup> Thomas & Betts**

**High Altitude Kits for Elevations  
above 6000Ft/1830M,  
Options DJ20 and DJ21**

**Installation Form RZ-NA I-UD-HA (Version A)  
Obsoletes Form RZ-NA I-UD-HA**

**APPLIES TO: Models UDAP, UDAS, UDBP,  
and UDBS**

## Application and Kit Components

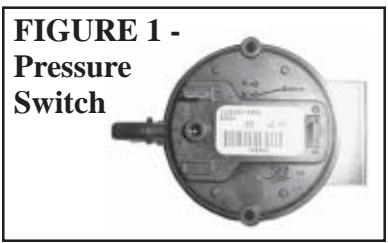
- Option DJ20 or DJ21 is required above 6000 ft (1830M)

If a Model UDAP, UDAS, UDBP, or UDBS heater is being installed above 2000 ft (610M), 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 6000 ft (1830 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. **Be sure your kit matches your installation.**

	Model UDAP	30	45	60	75	100	125	150	175	200	225	250	300	350	400	
<b>Option DJ20 for Model UDAP installed as a standard Power Vented Fan-Type Unit Heater</b>	Pkg P/N	197117			197118			197117			201162			201163		
	High Altitude Switch P/N	197031			197032			197031			201160			201161		
	Negative Pressure OFF Setpoint "w.c.	0.35			0.45			0.35			1.00			1.30		
	Label color	Purple			Pink			Purple			Brown			White		
<b>Option DJ21 applies only to Model UDAP-CV with Option AV6 for Common Venting</b>	Model UDAP-CV	30	45	60	75	100										
	Pkg P/N	197119	197118	197120	197121											
	High Altitude Switch P/N	197029	197032	196362	196388											
	Negative Pressure OFF Setpoint "w.c.	0.60	0.45	0.55	0.50											
	Label color	Lt Blue	Pink	White	Orange											
<b>Option DJ20 for Model UDAS Separated Combustion Fan-Type Unit Heater</b>	Model UDAS	30	45	60	75	100	125	150	175	200	225	250	300	350	400	
	Pkg P/N	197119			197121			197205	197117	201162			201163			
	High Altitude Switch P/N	197029			196388			197030	197031	201160			201161			
	Differential 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			
<b>Option DJ20 for Model UDBP Power Vented Blower-Type High Static Unit Heater</b>	Model UDBP	30	45	60	75	100	125	150	175	200	225	250	300	350	400	
	Pkg P/N	197117			197118			197117			201162			201163	201162	
	High Altitude Switch P/N	197031			197032			197031			201160			201161	201160	
	Negative Pressure OFF Setpoint "w.c.	0.35			0.45			0.35			1.00			1.30	1	
	Label color	Purple			Pink			Purple			Brown			White	Brown	
<b>Option DJ20 for Model UDBS Separated Combustion Blower-Type High Static Unit Heater</b>	Model UDBS	30	45	60	75	100	125	150	175	200	225	250	300	350	400	
	Pkg P/N	197117	197118	202103	197118	197117	197205	197118	201162			201163	201162			
	High Altitude Switch P/N	197031	197032	196362	197032	197031	197030	197031	201160			201161	201160			
	Differential Pressure OFF Setpoint "w.c.	0.35	0.45	0.55	0.45	0.35	0.40	0.35	1.00			1.30	1			
	Label color	Purple	Pink	White	Pink	Purple	Green	Purple	Brown			White	Brown			

## Installation Instructions



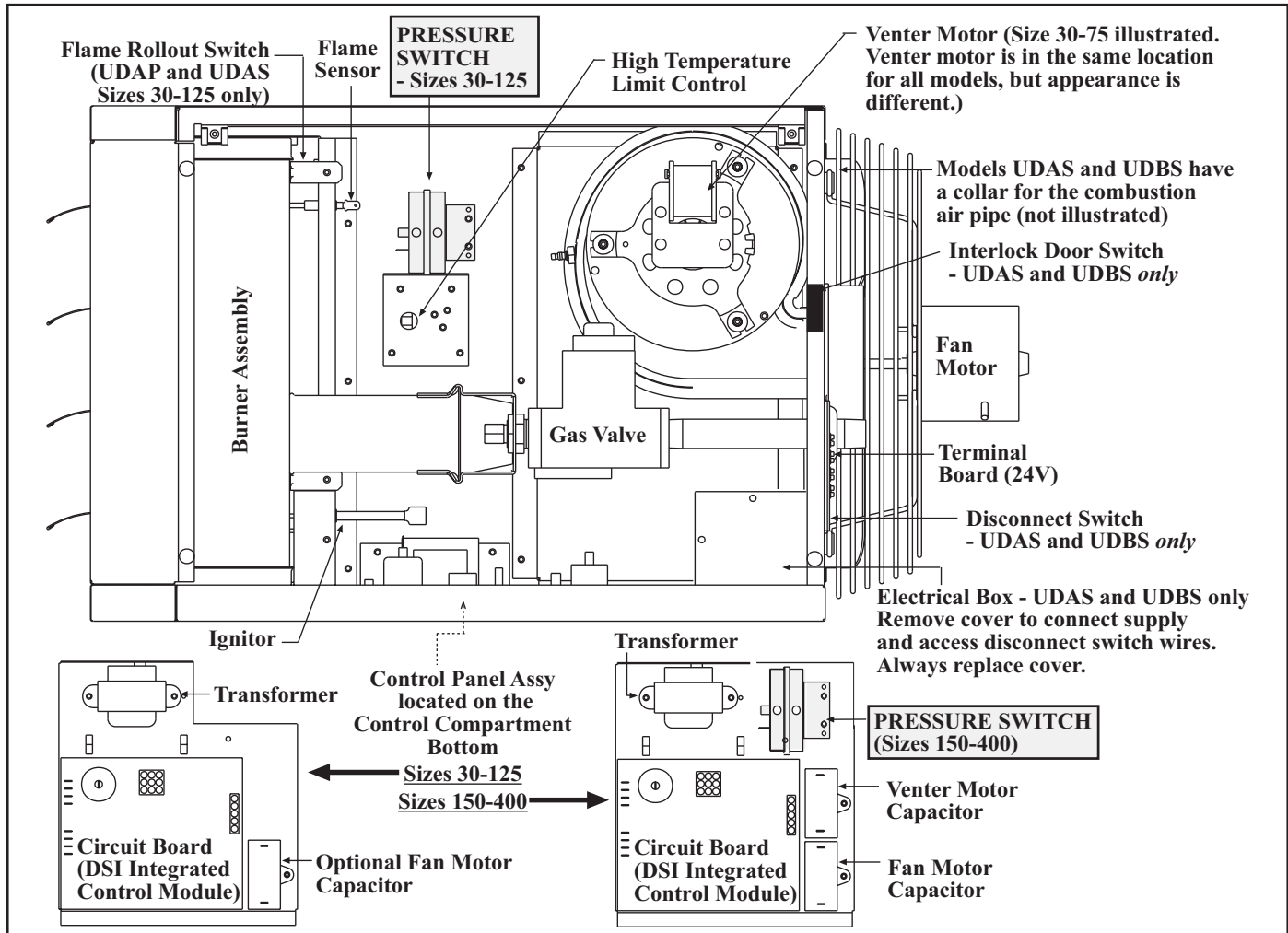
**WARNING: The instructions in this sheet are designed to prepare a heater for high altitude operation prior to installation. If your heater is installed, for your safety, turn off the gas and the electric before servicing.**

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 jurisdiction. The qualified agency performing this work assumes responsibility for this installation.

# Installation Instructions (cont'd)

**FIGURE 2 - Pressure Switch Location (UDAP unit is illustrated; pressure switch is in the same location on UDAS, UDBP, and UDBS)**

1. In the control compartment, locate the pressure switch (See **FIGURES 1 and 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.
2. Mark and disconnect the two wires attached to the pressure switch.
3. Disconnect the sensing tube from 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 6000 ft (1830M)					
Altitude		Natural Gas (inches w.c.)		Propane Gas (inches w.c.)	
Feet	Meters	Single Stage and Two Stage High Fire	Two Stage Low Fire	Single Stage and Two Stage High Fire	Two Stage Low Fire
6001-7000	1831-2135	2.6	1.3	7.4	3.7
7001-8000	2136-2440	2.5	1.3	7.1	3.5
8001-9000	2441-2745	2.4	1.2	6.7	3.4
9001-10000	2746-3045	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.

**Thomas & Betts**

Form RZ-NA I-UD-HA, P/N 197081 Rev 2, page 2

**(800) 695-1901**  
**www.ReznorOnline.com**

©2003 Thomas & Betts Corporation, All rights reserved. Printed in the U.S.A.  
 MANUFACTURER OF HEATING, COOLING, AND VENTILATING SYSTEMS  
 Trademark Note: Reznor®, TCore<sup>2</sup>®, and V3<sup>™</sup> are trademarks of Thomas & Betts.  
 1/03 Form RZ-NA I-UD-HA (Version A.1)