

**State of Utah
Weatherization Assistance Program
Worst Case CAZ Depressurization & Draft Test**

Client Name:	Job#	Date:
VENTING SYSTEM MUST BE COLD BEFORE STARTING THIS TEST!		
1. Turn off all exhaust fans & dryers. Set combustion appliances to off or pilot		
2. Put dwelling in winter time condition IE: all exterior doors & windows shut		
3. Ensure all interior doors are open		
4. Close any operable vents to the outdoors		
5. Check furnace/air handler filter. It must be clean		
6. Check and clean dryer lint filter		
7. Set up DG 700 to measure CAZ with reference to outdoors on channel A		
8. Set up DG 700 to measure Vent with reference to the CAZ on channel B		
9. Record current CAZ pressure (channel A)		PA
10. Turn on any & all exhaust fans, record CAZ pressure (channel A) IF NO EXHAUST FANS EXIST MARK N/A IN CHECK BOX		PA
11. Turn on any and all dryers, record CAZ pressure (channel A) IF NO DRYERS EXIST MARK N/A IN CHECK BOX		PA
12. Turn on furnace/air handler fan, record CAZ pressure (channel A) IF NO FURNACE/AIR HANDLER EXISTS MARK N/A IN CHECK BOX		PA
13. If dwelling has an open hearth fireplace, use a blower door to simulate 300 CFM exhaust flow. Record CAZ pressure (channel A) IF NO FIRE PLACE EXISTS MARK N/A IN CHECK BOX		PA
14. Close CAZ doors, record CAZ pressure (channel A) IF NO CAZ DOORS EXIST MARK N/A IN CHECK BOX		PA
15. Close any other doors that may influence CAZ pressure, record CAZ pressure IF NO OTHER DOORS IN THE HOME INFLUENCE CAZ PRESSURE MARK N/A IN CHECK BOX		PA
16. Any fans, dryers or air handlers that cause the CAZ pressure to move less negative or towards a positive reading should be turned off. Doors should be placed in the position that causes the CAZ to be in the most negative condition. Find the condition that creates the the most negative or "Worst Case" CAZ depressurization. Record the "Worst CASE" CAZ depressurization.		PA
NOTES:		

The following table lists CAZ depressurization limit's if the CAZ is more negative than the values listed, it is recommended you take steps to correct it.

APPLIANCE TYPES	CAZ DEPRESURIZATION LIMITS
Orphaned natural draft water heater	-2 PA
Natural draft water heater common vented with natural draft furnace or boiler	-3 PA
Natural draft water heater common vented with a Category I appliance	-5 PA
Stand alone power vented appliances and Category I appliances	-5 PA
Direct- vent sealed combustion appliances	-50 PA

WORST CASE DRAFT TEST		
VENTING SYSTEM MUST BE COLD BEFORE STARTING THIS TEST!		
1. Place CAZ in the most negative or "WORST CASE CONDITION"		PA
2. Record the current vent pressure (channel B)		PA
3. Starting with the smallest BTUH appliance, fire the appliance and start a 60 second timer		
4. Does appliance develop a good draft within 60 seconds?	Yes / No	
NOTE: If vent pressure is anything other than a negative pressure, the vent IS NOT venting properly. If the appliance does not develop a good draft within 60 seconds, steps MUST be taken to correct the problem.		
5. Record vent pressure after 60 seconds. (channel B)		PA
6. If appliance does develop a good draft under "WORST CASE CONDITIONS" no Further action is required.		
7. Repeat test for any other natural draft appliances in the CAZ	Good vent	pressure
A. Appliance 1 description:	Yes / No	PA
B. Appliance 2 description:	Yes / No	PA
C. Appliance 3 description:	Yes / No	PA
D. Appliance 4 description:	Yes / No	PA
NOTE: Any appliance that fails a draft test under "WORST CASE CONDITIONS" MUST also be tested under natural/normal conditions, to ensure it will develop a good draft under normal conditions.		
NATURAL/NORMAL CONDITIONS DRAFT TEST		
1. Record outdoor temperature		°F
2. Allow venting system time to cool down		
3. Starting with the smallest BTUH appliance, fire the appliance and start a 60 second timer		
4. Does appliance develop a good draft within 60 seconds?	Yes / No	PA
NOTE: Any appliance that fails a draft test under natural/normal conditions MUST be taken out of service until the problem can be corrected.		
5. Repeat test for any other natural draft appliances in the CAZ		
A. Appliance 1 description	Yes / No	PA
B. Appliance 2 description	Yes / No	PA
C. Appliance 3 description	Yes / No	PA
D. Appliance 4 description	Yes / No	PA
The following table lists acceptable vent pressures based on outdoor temperatures. If the measured vent pressures under both worst case and natural conditions are not within an acceptable range, steps MUST be taken to correct the problem.		
Outdoor temperature	Minimum acceptable draft pressure	
Below 10°F	-2.5 PA	
10°F up to 90°F	(Outdoor temp. ÷ 40) – 2.75 (see example)	
Above 90°F	-0.5 PA	
EXAMPLE: (33°F ÷ 40 = .825) – 2.75 = -1.93 or -2 PA draft pressure		
NOTE: Rounding final number up is acceptable, rounding down is UNACCEPTABLE!		

Technician Signature

Date