



## *Installation Instructions for the*

# **TM300 / TM900**

# **Trumix® Gas Blender Panel**

---

**Thank You** for purchasing the **McDantim, Inc. Trumix®** Gas Blender Panel. Our goal is to give you the most dependable, accurate and straight forward blender possible for food packaging, welding or other related uses and products. We want you to be thoroughly happy with your new system and would like to hear from you if for any reason you are, in any way, displeased.

The **McDantim, Inc. Trumix®** Gas Blender Panel is simple to install and use. It is extremely accurate, reliable and requires little maintenance. Properly installed, and supplied with clean, dry gas, your **Trumix®** Gas Blender Panel will provide a perfect supply of mixed gas for many years.

Please take the time to read and understand the instructions, the system and the cautions. While the system is simple there are inherent dangers in working with pressurized gases. Pressure vessels and storage tanks, which contain both liquids and pressurized gases, can explode or rupture and cause serious injury or death if over-pressurized or used incorrectly. Be 100% sure you understand the implications of what you are doing whenever you set up, turn on or modify this or any system. Check with your equipment supplier (in the case of storage tanks especially) to be sure you are not exceeding any safety limits. If you have any doubt concerning the safety of your system, get advice from or have the work done by a qualified specialist.

## **Caution**

**With the Trumix® Gas Blender Panel you are dealing with pressurized gases. Serious injury or death can result from improper installation, use or service. All work on these systems should be carried out by qualified personnel only! Before attempting any work on this system be sure to read and understand these and any other instructions that relate to the equipment involved in these systems! The dangers include, but are not limited to, EXPLOSION if the maximum safe pressures for any of the individual components of the system are exceeded or ASPHYXIATION if gases are released or leaked into a confined area. If you have any questions regarding the safety of these systems do not proceed with the installation or operation until you are 100% certain as to their safety!**



# Trumix® Gas Blender Panel Installation Instructions

## Warning

With this or any compressed gas system there are certain dangers. If you do not have the experience to understand these dangers use a professional installer.

Example shown on this page is a TM300 set for 25% CO2 with a Balance gas of N2.



1. Use thread sealant.
2. Do not remove fittings.
3. Use back-up wrenches.

Use reinforced tubing suitable for inlet pressure.

Use primary regulators on your gas source suitable for your panel specifications.

*Example: If your inlet pressure label states "Min. inlet pressure 120 psi" then you must provide at least 120 psi to the Blender Panel.*

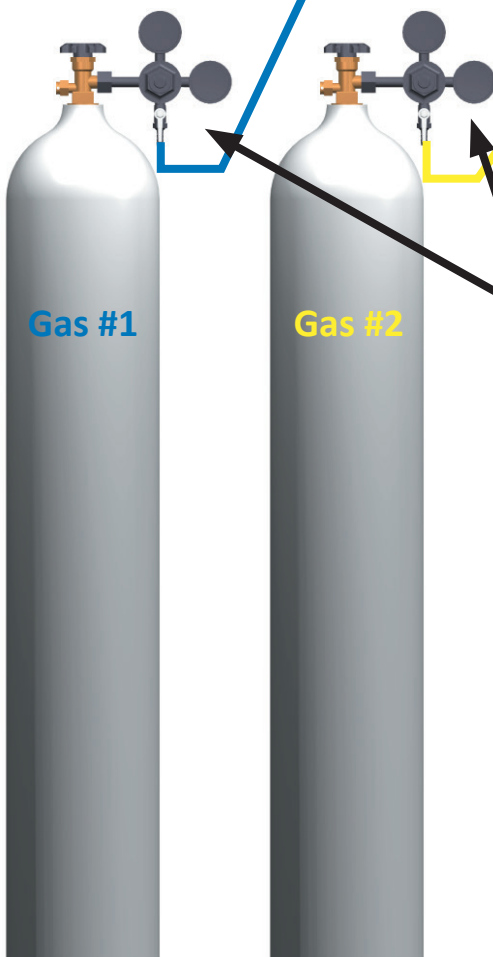
**Mixed Gas Out**

## NOTE:

Gases can be a combination of any two of the following: Argon, Helium, Nitrogen and CO2.

Your **Trumix® Gas Blender** is factory set to insure a precise gas combination and blend. Please reference the labels on your **Trumix®** TM300 or TM900 for the exact gases and pressure required.

**DO NOT SUBSTITUTE GASES.**



## Installation Instructions

### Step 1: Determine the best location for the blender! Please consider the following:

- A) Select a location that minimizes the chance of accidental damage to the blender.
- B) Select a location as near as is practical to both the supply sources and the supplied equipment.
- C) Select a location allowing convenient access to the shut off valve for servicing.
- D) Mount panel in a weather-proof area only.

### Step 2: Mount panel to wall!

### Step 3: Hook up gas supply and outlet!

- A) Use **only** the gases shown on the panel label(s).
- B) Make sure you are supplying the panel with clean, dry gases that are between the minimum and maximum pressures as indicated on the panel label.
- C) Turn shut-off valve(s) on panel to the off position.
- D) Make sure the tubing from the gas sources is compatible with the fittings on the panel.  
**DO NOT ATTEMPT TO REMOVE INLET OR OUTLET FITTINGS.**
- E) Install appropriate tubing adaptors in the inlet fittings. Be sure to use thread sealant and back-up wrenches. Connect gases supply lines to inlet fittings.
- F) Confirm that your system and related equipment is safe and ready for pressurized mixed gas.
- G) Connect mixed gas supply tube to mixed gas outlet fitting.
- H) Turn on the supply gases and check supply system and fittings for leaks.
- I) Adjust outlet pressure regulator to desired outlet pressure. Read outlet pressure on Outlet Pressure Gauge.
- J) Open mixed gas supply shut off valve and check system for leaks.

## Operation Guidelines and Helpful Hints

### NOTES:

- 1) Supply the panel with clean gases.
- 2) Be sure no liquid can get into the blender as this will render it useless and void the warranty.
- 3) Some fittings on the panel do not have standard US threads, and should not be removed without checking with **McDantim, Inc.!**
- 4) **NEVER EXCEED THE RECOMMENDED PRESSURES FOR ANY PART OF YOUR SYSTEM!**

### Adjusting the outlet pressure.

- 1) Close shut-off valve. This allows you to read pressure changes quickly.
- 2) Pull out the adjusting stem of regulator.
- 3) Read pressure on pressure gauge.
- 4) Adjust pressure. Increase by turning clockwise. Note: When decreasing pressure, always reduce pressure to below the desired level and then increase to desired setting.
- 5) Push in adjusting stem of regulator to lock.
- 6) Open shut-off valve.

### Trouble-shooting: No Outlet Gas

- 1) Close shut-off valve. Check pressure on pressure gauge. If pressure is low or zero, check:
  - a) Outlet regulator for adjustment. (See "Adjusting the outlet pressure" above.)
  - b) Both supply gases. (One or both could be empty, turned off or out of adjustment.)
  - c) For blockage of either supply line or for a closed valve within the supply system. (The blender shuts off if either supply gas is unavailable.)

#### If pressure is good:

- d) Open shut-off valve completely.
- 2) If you continue to have no gas, close shut-off valve, remove tubing from outlet, open shut-off valve and check for gas flow.
- 3) If you still have no supply gas, call **McDantim, Inc.** or your gas supplier or service person. **There are no user-serviceable parts within the panel. Anything done to the internal parts will affect the blend and void the warranty.**

**If you encounter other questions or problems call:  
McDantim, Inc. (888) 735-5607 or (406) 442-5153.**

# McDantim, Inc. Limited One Year Warranty

Warranty not valid outside the Continental USA

If the mechanics of this product are found to be defective in materials or workmanship within one year from the date of purchase, **McDantim, Inc.** will repair or replace, at its option, the defective product or component part. If for any reason the original purchaser is unsatisfied with the performance of this product, **McDantim, Inc.** will, at the purchaser's option, replace the product or refund the original sale price upon return of this product to **McDantim, Inc.** Please retain receipt for proof of purchase. Proof of purchase is required for any warranty service or claim. Your receipt is your warranty card.

## LIMITED WARRANTY

**McDantim, Inc.** warrants each product to be free from defects in material and workmanship under normal use and service for one year from date of sale. The obligation of **McDantim, Inc.** under this warranty is limited to the replacement of defective parts. Notice of defective parts must be submitted to **McDantim, Inc.** within one year and 15 days of date of sale. This warranty does not cover shipping, handling, or freight charges.

## DISCLAIMER OF WARRANTY

WARRANTY IS INVALID IF PURCHASER FAILS TO PROPERLY OPERATE AND/OR MAINTAIN THE PRODUCT. THIS WARRANTY IS NOT TRANSFERABLE TO THIRD PARTIES. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESSED OR IMPLIED EXCEPT AS STATED ABOVE. THERE IS NO WARRANTY FOR FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF MERCHANTABILITY.

EXCEPT AS OTHERWISE AGREED HEREIN **McDantim, Inc.** SHALL NOT BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES, SUCH AS, BUT NOT LIMITED TO DAMAGE TO OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFIT OR REVENUE, LOSS OF USE OF THE PRODUCT, COST OR REPLACEMENT OF THE PRODUCT, OR CLAIMS BY CUSTOMERS FOR LOSS DUE TO SERVICE INTERRUPTIONS. THE REMEDIES OF THE PURCHASER SET FORTH HEREIN ARE EXCLUSIVE, AND THE LIABILITY OF **McDantim, Inc.** WITH RESPECT TO ANY CONTRACT SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE EQUIPMENT OR PART ON WHICH SUCH LIABILITY IS BASED.

This warranty applies only to the original registered purchaser. TAMPERING, ACCIDENT, ABUSE, NEGLIGENCE, UNAUTHORIZED REPAIRS OR OTHER CAUSES UNRELATED TO DEFECTIVE MATERIALS OR WORKMANSHIP WILL VOID THIS WARRANTY. **McDantim, Inc.** neither assumes nor authorizes any representative or other person to assume for us any liability in connection with the sales or any shipment of our products.

**PLEASE KEEP INSTRUCTIONS WITH YOUR PURCHASE RECEIPT FOR YOUR RECORDS!**

## WARNING:



This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)