

FANS WITH PRESSURE SENSORS

INSTALLATION INSTRUCTIONS

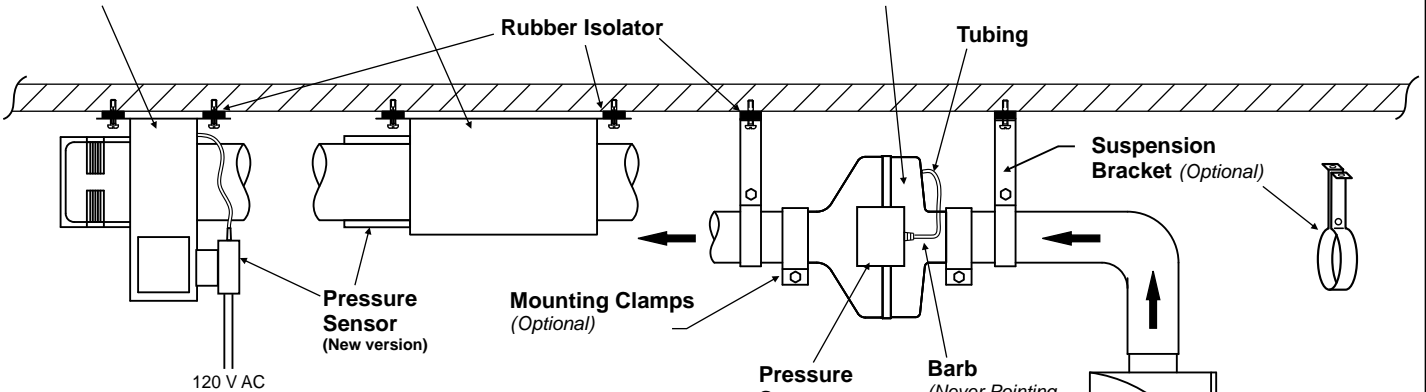
READ AND SAVE THESE INSTRUCTIONS

CAUTION: TO AVOID THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY, TURN POWER OFF AT SERVICE PANEL BEFORE INSTALLATION OR CLEANING OR SERVICING THIS UNIT.

PWS-PS SERIES

TLD200-PS SERIES

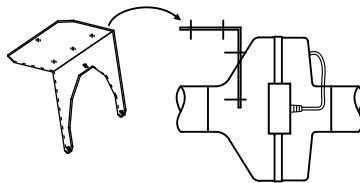
RI-PS FAN SERIES



IMPORTANT:
 ALL FANS EQUIPPED WITH PRESSURE SENSOR MUST BE INSTALLED WITH SENSOR MOUNTED VERTICALLY OR HORIZONTALLY. NEVER INSTALL PRESSURE SENSOR BARB POINTING DOWNWARD.

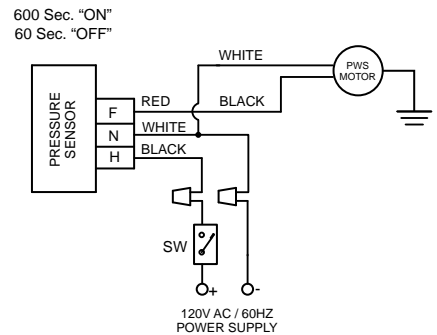
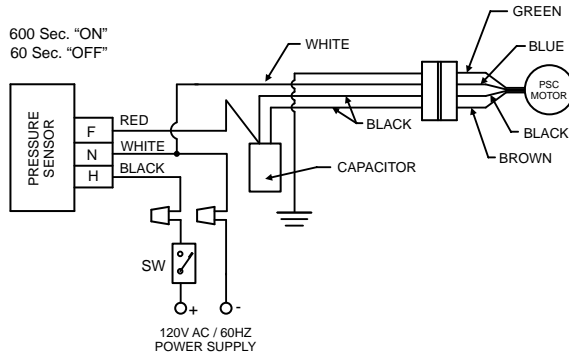
Mounting Clamps (Optional)
 > use for rigid duct, complete with foam rubber isolator.

OPTIONAL MOUNTING BRACKET



TLD200-PS & RI-PS SERIES

Typical wiring Diagram



PWS-PS Series

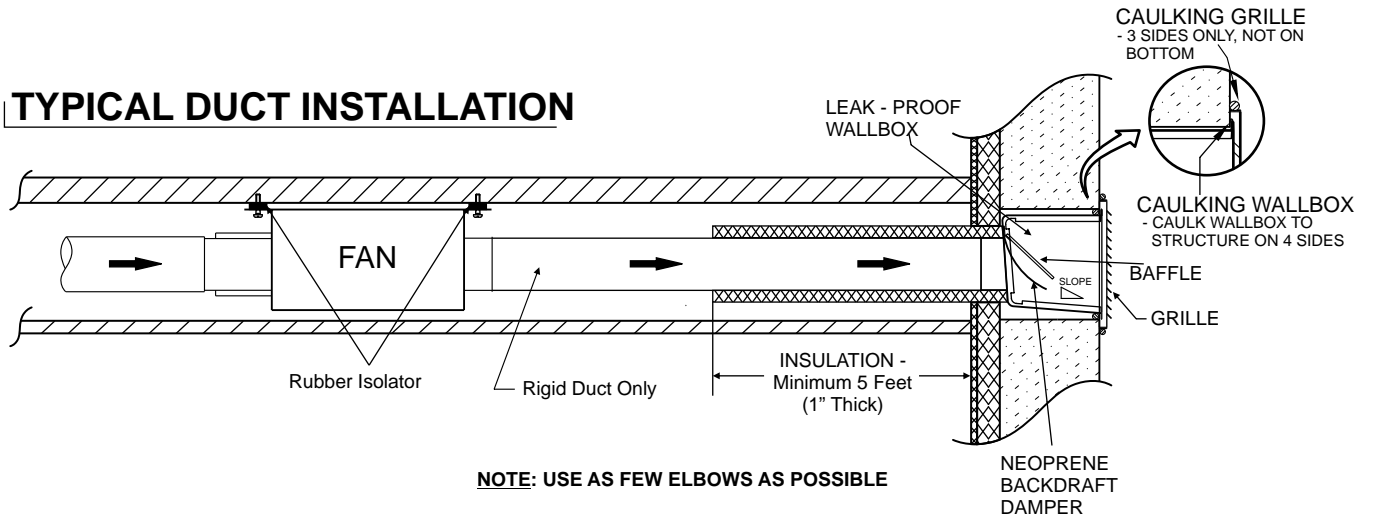


REVERSOMATIC
 MANUFACTURING LIMITED

790 Rowntree Dairy Road, Woodbridge ON, Canada L4L 5V3
 Tel: 905-851-6701 • Fax: 905-851-8376 • info@reversomatic.com

www.reversomatic.com

TYPICAL DUCT INSTALLATION



WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY, PLEASE OBSERVE THE FOLLOWING:

1. Do not use in cooking area.
2. Mount at least 8 feet above floor or grade level.
3. Installation of these units and the corresponding electrical wiring must be done by a qualified person and be in accordance with all municipal and national codes and standards, including those related to fire rated construction.
4. Use this units only for intended applications and in the manner indicated by the manufacturer. If you have any questions please contact the manufacturer at the address or telephone number listed below.
5. Before wiring, servicing or cleaning the units, switch power off at the service panel and lock it. If service panel is unlocked others could turn the power on unexpectedly and cause fatal electric shock to the installer or service person.
6. When cutting or drilling into wall or ceiling, make sure that you do not damage electrical wiring and other hidden utilities.
7. To reduce the risk of fire and properly exhaust air, be sure to duct air out side. Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces or garages.
8. It is recommended that a Lint Trap be installed and it is easily accessible to the user. Then the location of the Booster Fan can be 15' to 20' (10 linear feet) from the dryer.
9. It is also recommended that the lint trap must be checked prior to dryer operation and the Booster Fan impeller must be checked at least twice annually for lint accumulation.
10. All Fans should have backdraft damper at outlet. Fans with pressure sensing device must have wall-box equipped with backdraft damper as per drawing.

TABLE OF EQUIVALENT DUCT LENGTH

Minimum 120 cfm at:	Maximum Equivalent Duct Length	Maximum Duct Length + Number of Elbows				
		45' + 1	40' + 2	35' + 3	30' + 4	25' + 5
0.2" w.g.	50 Feet	45' + 1	40' + 2	35' + 3	30' + 4	25' + 5
0.4" w.g.	75 Feet	70' + 1	65' + 2	60' + 3	55' + 4	50' + 5
0.6" w.g.	100 Feet	95' + 1	90' + 2	85' + 3	80' + 4	75' + 5
0.8" w.g.	125 Feet	120' + 1	115' + 2	110' + 3	105' + 4	100' + 5

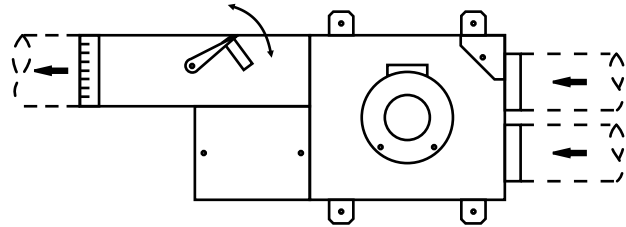
FANS WITH PRESSURE SENSORS

INSTALLATION INSTRUCTIONS

ATTENTION INSTALLERS:

This unit has an adjustable outlet damper that has been **factory preset** to provide sufficient static pressure to make sure that the fan control system will operate in most installations. You may optimize the performance of the booster fan to suit your installation by adjusting the damper setting.

If the TLD 200-PS booster fan turns on almost immediately after the dryer is energized then there is sufficient static pressure in the system and the damper can be opened a little to increase the CFM. If the opposite happens and the booster fan takes a longer time to turn on then the damper must be closed a little.



NOTE: Access door should be 12" x 18" for proper access to fan and controls.

- Make sure that the plastic tube is attached to the fan housing and is pushed in by about 1/2 inch

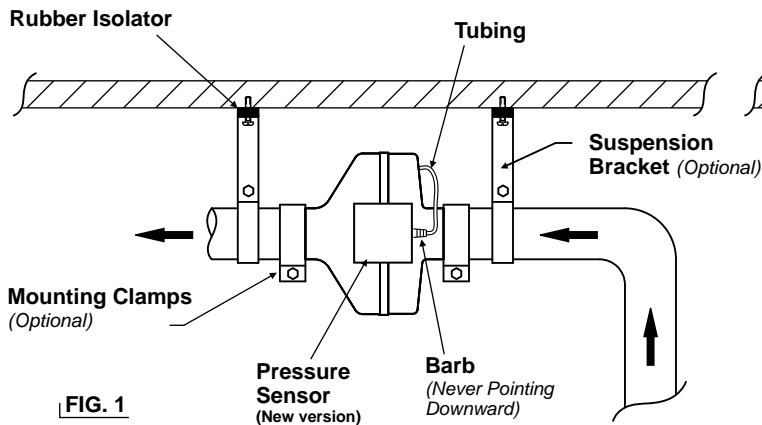


FIG. 1

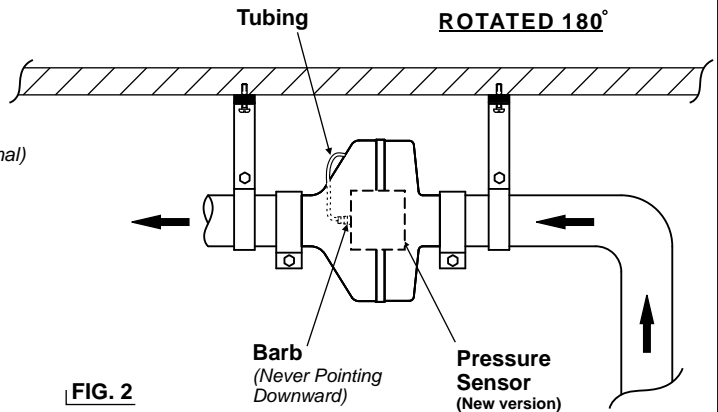


FIG. 2

IMPORTANT :

WHEN SITE CONDITIONS REQUIRE THE FAN TO BE MOUNTED IN THE OPPOSITE POSITION (SEE FIG.2 ROTATED 180 DEG.), THE PRESSURE SENSOR WILL NEED TO BE ROTATED (REMOVE SCREWS FROM BRACKET, ROTATE PRESSURE SENSOR, THEN RE-INSTALL) FOR EASY ACCESS.

NOTE: Models may be mounted in a Horizontal or Vertical position. All switches are tested at the factory in a vertical position. Locations of fittings and types of fittings may vary from unit to unit.

MOUNTING diaphragm in vertical position is the preferred method.

RANGE ADJUSTMENT: All settings are made with the diaphragm in a vertical position. The switch is shipped with the fixed adjustment at minimum 0.05 +.03/-.00" W.C. set point.



REVERSOMATIC
MANUFACTURING LIMITED

790 Rowntree Dairy Road, Woodbridge ON, Canada L4L 5V3
Tel: 905-851-6701 • Fax: 905-851-8376 • info@reversomatic.com

www.reversomatic.com

DRYER BOOSTER FANS EQUIPPED WITH PRESSURE SENSORS

SYSTEM CYCLE OVERVIEW

When a laundry dryer is turned on it quickly produces dynamic air pressure build up in the duct system of which the dryer booster fan is connected to. When the pressure build up within the system is greater than the air pressure switch set point the pressure relay closes and the timer cycle is initiated which then completes the electrical circuit and the booster fan starts. The timer cycle relay period is 600 seconds closed and 60 sec. open. If the dryer is ON it will continue to produce dynamic pressure in the system and the booster fan will continue to run for additional timer cycles. Once the dryer is turned off it no longer produces dynamic air pressure in the system. When the air pressure within the duct system is less than the switch set point pressure the pressure relay will open. The booster fan will continue to run until the completion of the 600 second closed timer cycle. During the 60 second open timer cycle power is interrupted and the booster fan will slowly come to a stop and remain off until the dryer is turned back ON and the system cycle is once again initiated.

NOTE: Please read and follow the installation instructions. The positioning of the air pressure switch is critical for booster fan operation. Please consult local building and electrical codes prior to installation.

Air Pressure Sensing Switch With Fixed Set Point

Fixed to operate on pressure
Rise at 0.05 +.03/-0.00" W.C.

Switch Differential (Approximate):
0.03-0.02" w.c (0.762 - 0.508 mm w.c)

Maximum Pressure: 1/2 psi (0.03bar)

Operating Temperature Range:
-40 °F to 190 °F (-40 °C to 87.8 °C)

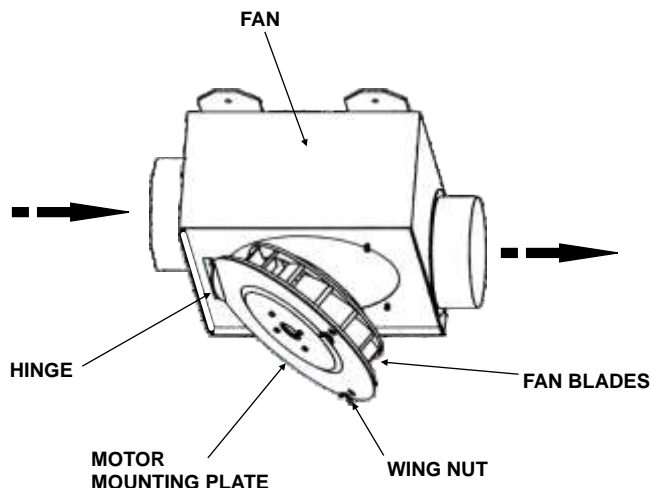
Sample Line Connector:
Barbed 3/16" slip-on connector
Suitable for flexible tubing.

Functional Specifications

Integral recycling delay timer with
600 seconds ON(±10%),
60 seconds OFF cycle(±10%) ,
120 volt input.

Power: 120 V AC + 10%-15%, 50/60 HZ

Output: SPST NO relay
Rated for 3 amps (Resistive) @ 120 VAC or
1/10 hp @ 120 to 277 VAC.



CLEANING INSTRUCTIONS:

1. Before cleaning the unit, switch power off at service panel and lock it. If service panel is unlocked others could turn the power on unexpectedly and cause fatal electric shock to the cleaner.
2. Make sure there is no power to the motor.
3. Clean fan blades of lint accumulation with a cloth or small smooth brush as required (at least twice annually) by removing two wing nuts from the motor mounting plate then motor will swing open.
4. Tighten the wing nuts after cleaning.
5. Turn the power "ON" and check if the fan is working properly.
6. It is recommended that a Lint Trap be installed.



REVERSOMATIC
MANUFACTURING LIMITED

790 Rowntree Dairy Road, Woodbridge ON, Canada L4L 5V3
Tel: 905-851-6701 • Fax: 905-851-8376 • info@reversomatic.com

www.reversomatic.com