# COP2DB CONSTANT OPERATING PRESSURE CONTROL

## Description:

The COP2DB is a Constant Operating Pressure Control that incorporates a 120/1/60 Variable Frequency Drive. It modulates the speed of an exhaust fan to maintain a user adjustable negative pressure set point. **Use only with Tjernlund Products’ model CDB8 Booster Fan.**

Pressure is measured in dryer duct at the farthest point from the exhaust fan inlet with the included pressure transducer and sensing tube kit. As exhaust volume increases within the duct, the resulting reduction in measured pressure causes the COP2DB control to increase voltage & frequency to the fan. It speeds the fan up to handle the additional exhaust volume and slows it down when the exhaust volume is reduced, modulating fan speed to maintain optimal dryer exhaust velocity. Changes in wind, temperature and building pressure are automatically compensated for.

## Controller Features:

- **Dip switch adjustable exhaust pressure set point:** -0.05“ WC to -0.53“ WC in 0.01“ WC increments.
- **Dip switch adjustable acceleration speeds:** Fast/10 Seconds, Medium/20 seconds, Slow/30 seconds
- **Accuracy:** 0.02“ W.C.
- 6 to 70 Hz. Frequency modulation range
- Over current and VFD over temperature protection
- LED power and fault indicator
- VFD Power Switch
- Thermostatically activated VFD Cooling Fan
- RoHS Compliant

## Material:

- The housing is made from 18 gauge galvanized steel. It has NEMA class 1 construction

## Warranty:

- 1 Year warranty

## Power Supply:

- 115 VAC, 60 Hz, 7.0 Amps

## Operating Temp:

- -4º F to 104º F

## Dimensions (H x W x D):

- **COP2DB** 11.5“ x 11“ x 5.5“
- **COP2 Transducer** 6“ x 5“ x 1.5“

## Ship Weight:

- 12 lbs

## Standard Equipment:

- COP2DB Control & COP2 Series Pressure Transducer

---

<table>
<thead>
<tr>
<th>Job Name:</th>
<th>Equipment Rep:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor:</td>
<td>Prepared By:</td>
</tr>
<tr>
<td>Arch./Engr.:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

---

**Tjernlund Products, Inc. • 1601 Ninth Street • White Bear Lake, MN 55110 • (651) 426-2993 • (800) 255-4208 • FAX (651) 426-9547 • www.tjernlund.com**

P/N 8513052