

SPECIFICATION

MODEL DBS – EXHAUST ONLY LOW PROFILE VENTILATOR

Low profile style ventilator to be wall hung (DBSW), base mounted (DBSL) or base mounted with built in plate shelf (DBS) and shall be sized as shown on plans. Ventilator shall be Duo-Aire model DBSW, DBSL or DBS low profile, exhaust only ventilator. Equipment furnished shall be ventilator only, or system. System shall include ventilator, ductwork, exhaust fan and curb.

1. **LOW PROFILE VENTILATOR**

Ventilator shall be constructed of minimum 18 gauge 300 series stainless steel. All external seams shall be continuously welded, ground and polished to match original finish. There shall be no overlap of seams allowed. Construction shall be in complete compliance with requirements of N.F.P.F. 96, U.L. Std. 710, and bear the N.S.F. seal.

The ventilator shall include a filter rack of the same material as the shell and shall be furnished with a full complement of U.L. aluminum grease filters, installed at not less than a 45° angle. Filters to be easily removable for cleaning filter housing to drain into a full length grease trough, complete with grease cup, and the grease trough and cup are to be easily removable for cleaning. Model DBS shall include a built in plate shelf at top of ventilator.

The ventilator shall include a fully welded exhaust collar with the exhaust collar sized to maintain a minimum exhaust air flow velocity of 1500 FPM.

The ventilator shall be furnished with a full-length bracket, welded to top and bottom of the ventilator for fastening the ventilator to the wall and shall include a three inch rear air gap full length of ventilator.

Special design requirements for fastening the ventilator directly to equipment stand shall be furnished on an individual basis, specific to the equipment to be ventilated. These design requirements shall then become an integral component of the low profile ventilator.

2. **DUCTWORK**

The duct for the Duo-Aire Proximity ventilator shall be constructed to meet the requirements of N.F.P.A. 96, as well as all applicable Local and State codes. The duct shall be sized to maintain the same airflow velocity as the exhaust collar. The duct shall run as directly as possible to the outside of the building and shall terminate in a manner consistent with all Local and State codes.

Duo-Aire, Inc. 316 W. Central Avenue, Suite 505, Winter Haven, FL 33880
Phone: 863-294-2272 Fax: 863-294-2704 E-Mail: gregb@ventilationmarketing.com

Installation of the ductwork, including but not limited to, welding of joints, support from structure, enclosing in fire rated assembly if required, clearance from combustibles, penetrations of walls, ceilings, or other rated assemblies, and compliance with all applicable codes is the sole responsibility of the installing contractor.

3. **EXHAUST FAN AND CURB**

The exhaust fan shall be sized to move the required quantity of exhaust air at full system static pressure. The fan selected shall not exceed 85% of full load at operating conditions. Design exhaust CFM shall be determined by applicable codes and the local code official having jurisdiction.

The roof exhaust fan shall be of the belt drive, up blast, vertical discharge type and shall be listed to meet the requirements of U.L. 762. The fan shall be complete with a hinged base, external grease collection device, and external disconnect switch to specified voltage.

The roof curb shall be of a design compatible with the type of roof to which it is to be mounted and shall be sized to insure that the point of termination of the exhaust duct is at least 18" above the surrounding roof structure. The point of discharge of the exhaust fan must be at least 40" above the surrounding roof structure.

A complete static pressure calculation sheet, showing design exhaust CFM as well as hood, filter, collar entry duct and fan loss static pressures and a computerized fan selection print-out from the fan manufacturer shall be furnished as a part of the submittal documents for approval.

<p>Duo-Aire, Inc. 316 W. Central Avenue, Suite 505, Winter Haven, FL 33880 Phone: 863-294-2272 Fax: 863-294-2704 E-Mail: gregb@ventilationmarketing.com</p>
