

Installation Instructions and **Operation & Maintenance** Manual

DuraDuct[™] DXD

Single Wall Dishwasher Exhaust System

Do not install this system without completely reading the installation instructions. All details as noted in this document must be followed. For further information please contact VaughanAir.

Pennsylvania Avenue Concord, ON L4K 4A6, Canada TEL: 647.946.4770 EMAIL: sales@vaughanair.com







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GENERAL INFORMATION

DuraDuct Model DXD is a pre-manufactured, single wall dishwasher exhaust duct system featuring installer friendly companion flange connections that include a liquid tight gasketed sealing system. The DXD system eliminates the field welding required for contractor fabricated dishwasher duct systems. Extensive structural leakage testing has been performed on the DuraDuct DXD system ensuring a safe and cost effective solution for new construction or retrofitting of dishwasher exhaust duct systems.

PRODUCT FEATURES:

- Rectangular or round footprint
- No weld system; flange to flange connections
- Available in 304SS or 316SS
- Specialized fittings available
- +10" & -10" Leakage and deflection tested in accordance with ANSI/ASHRAE/SMACNA Standard 126-2000
- UL 1978 & CAN/ULC-S662 tested for fire and structural integrity
- Factory pressure tested seam welds

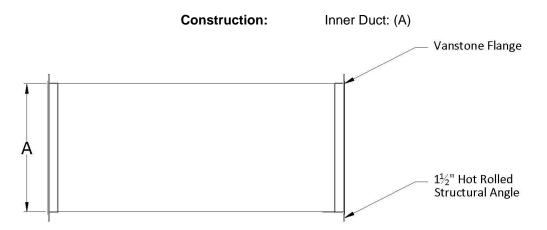
CONSTRUCTION DETAILS

DuraDuct model DXD is constructed with fully welded duct materials. It is supplied with tested flange to flange connections with a liquid tight gasket system. Standard lengths are 59" or 118" long and specialized fittings are available to suit the system design. Refer to lay-out drawing for complete details.

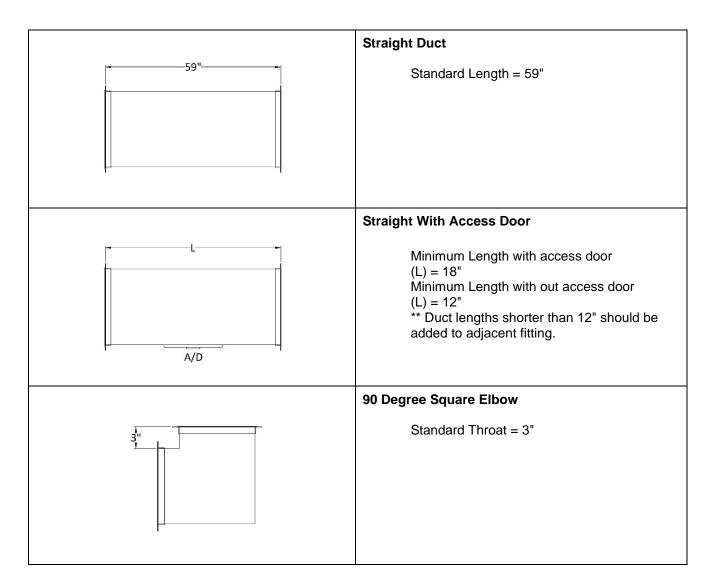
Materials:	Liner: 18ga 304 Stainless steel - Standard 18ga 316 Stainless steel - Premium	
Angle Flanges (Squar	e): 1-1/2" x 1/8" 304 Stainless steel structural angle - Standard 1-1/2" x 1/8" 316 Stainless steel structural angle - Premium	
Angle Flanges (Round	Powder coated mild steel structural angle - Standard 304 Stainless steel structural angle - Premium 316 Stainless steel structural angle - Premium	
	6" to 11" Diameter11/4" x 11/4" x 1/8" angle12" to 24" Diameter11/2" x 11/2" x 1/8" angle25" to 40" Diameter2" x 2" x 3/16" angle	
Duct Weight:	2.6 lbs/sq. ft.	
Standard Fittings:	See the attached pages for DuraDuct DXD standard fittings and dimensions.	
	Non-Standard fittings, fittings sizes, and fitting configurations are available for a premium.	

Contact VaughanAir for details.

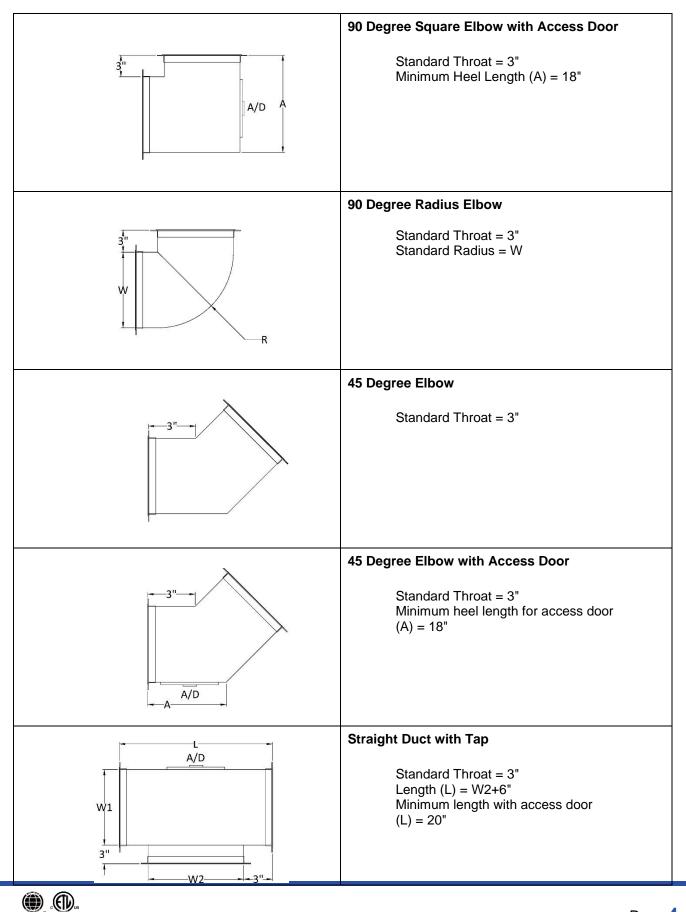




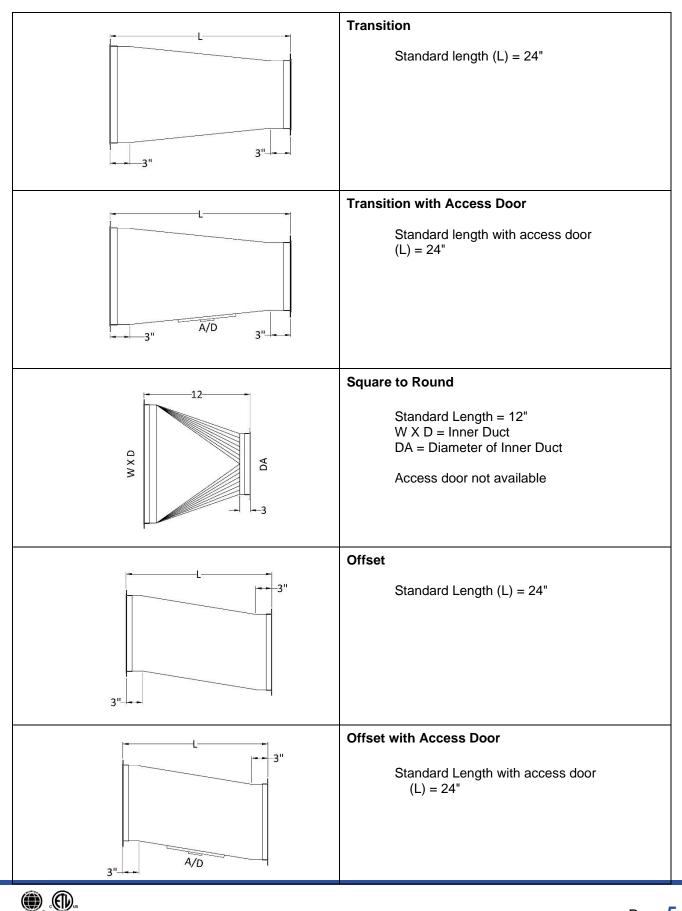




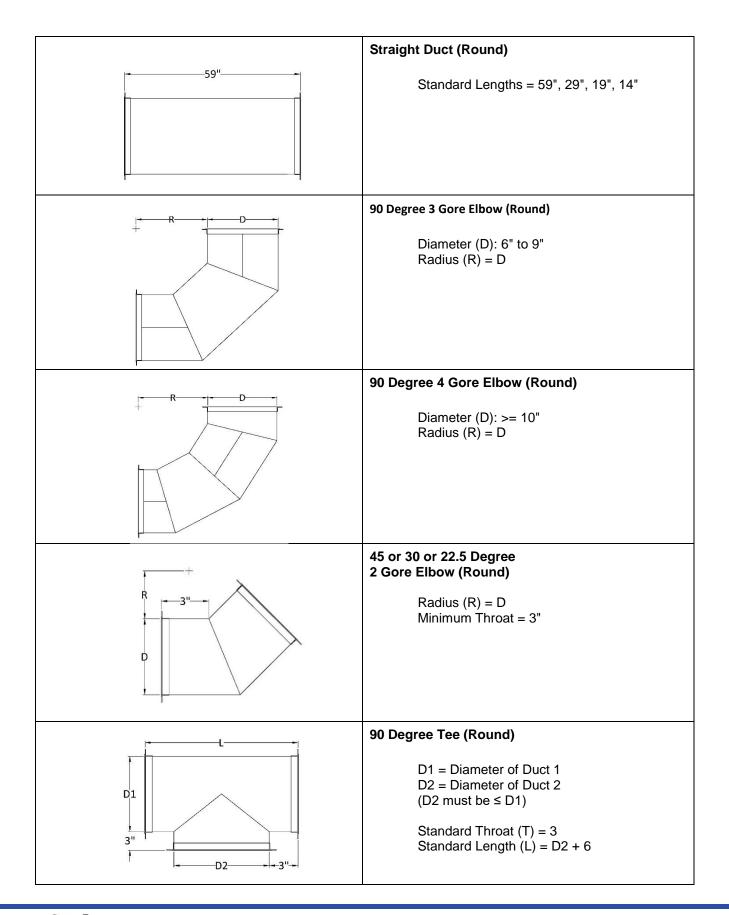




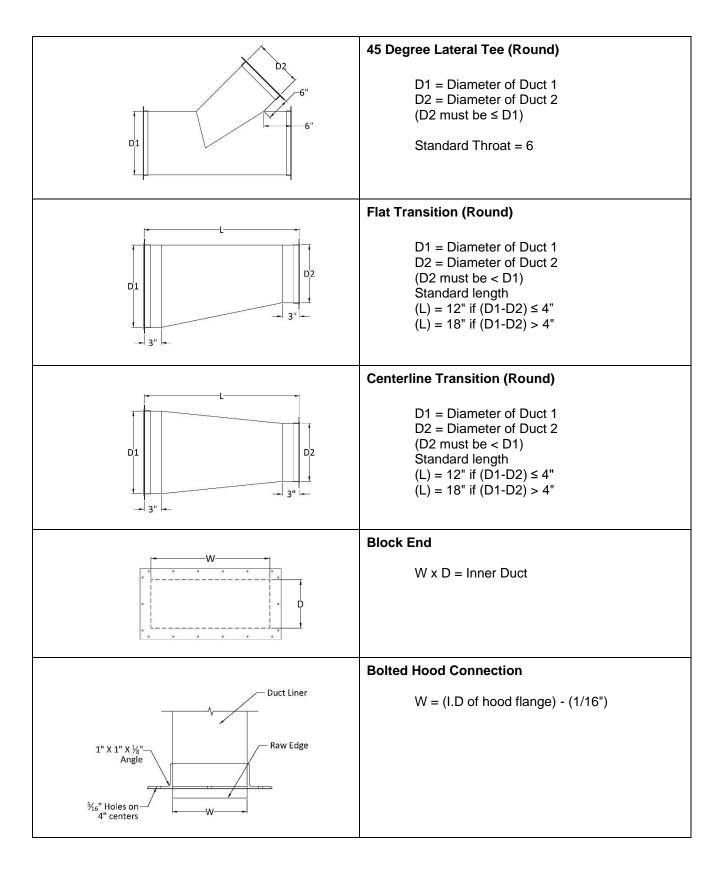














DUCT CONSTRUCTION MATERIALS:

DuraDuct DXD is manufactured in minimum 18 gauge 304 or 316 stainless steel for rectangular duct and minimum 20 gauge for round.

HANDLING INSTRUCTIONS:

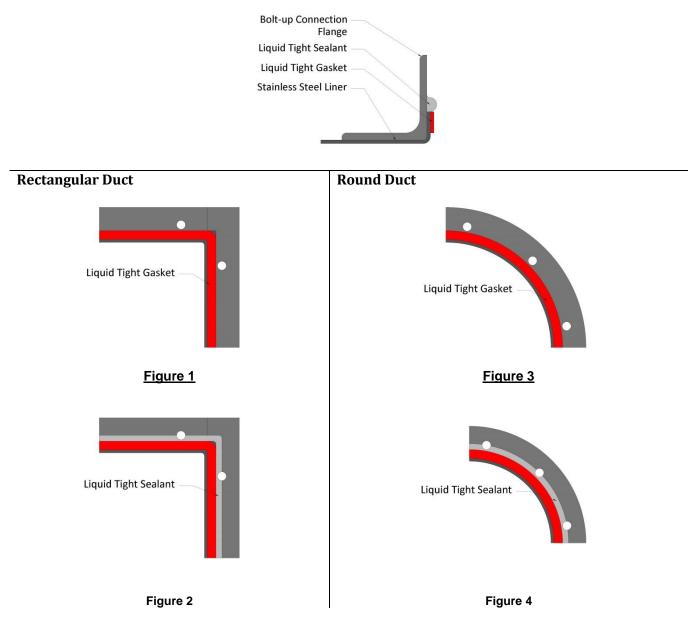
DuraDuct DXD is a robust system, however, care should be taken in handling the ductwork. All fittings are shipped skidded and shrink wrapped. Each component should be inspected for damage, if damage has occurred notify the freight company upon receipt of the goods to file a claim.

CONNECTION DETAILS:

All components are supplied with bolt-up type flanged connections. All flanged connections are designed alike providing a quick and trouble-free installation. All flange gasket, nuts, bolts, washers and screws are provided to complete the single-source design. Assembly details follow:



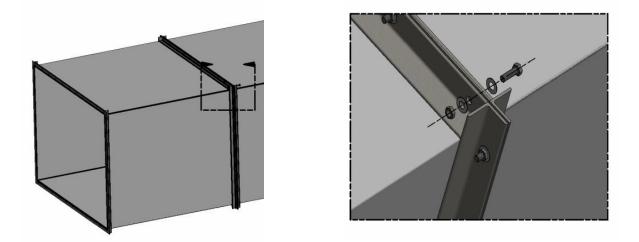
FLANGE ASSEMBLY INSTRUCTIONS:



Step 1:

- a) Thoroughly clean the connection flange of any oil or debris (a solvent based degreaser may be used) to ensure a positive bond between the gasket and steel flange.
- b) Install the gasket by removing the paper backing and applying the gasket flush to the outer edge of the inner liner (Figure 1 or 4). For horizontal duct configurations, any splices in the liquid tight gasket should be made at the top portion of the duct. Be sure not to stretch the gasket while you apply it to the steel flange.
- c) Apply a 1/4" continuous bead of the supplied liquid tight sealant along the outside perimeter of the gasket (Figure 2 or 2).
- d) Sealant cure time prior to operation is 48hrs.





Step 2:

Connect each section using the supplied bolt assembly. A nut, bolt and two flat washers are provided for each bolt hole. Be sure to not disturb the sealant when assembling. Tighten each bolt assembly making sure to check each fastener prior to moving on to step 3. Bolt assembly to be torqued to 75 to 95 lbf-in.

Tip: A drift pin is helpful to locate the bolt holes.

DUCT SUPPORTS:

Duct supports will provide joint alignment and support for dishwasher exhaust duct. The horizontal supports shall be in accordance SMANCA standards. DXD dishwasher exhaust shall slope towards the appliance in accordance with local codes.

Note: Duct supports are supplied by others. Consult with VaughanAir for technical support.

APPLIANCE CONNECTIONS:

Ducts connecting to the appliance shall be coordinated with VaughanAir and installed in accordance with lay-out drawing.

TEST PORT DETAIL:

When requested, optional test ports can be supplied. Test ports can be installed on the duct as intended for use for balancing when required. The test port diameter can be built to suit site requirements. Please inquire with project management for coordination.



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