SPECIFICATION

DUO-AIRE U.L. LISTED CONCENTRIC DUCTWORK

Furnish and install Duo-Aire U.L. Listed concentric ductwork. Ductwork shall be combination exhaust and supply and shall be listed for 1" clearance to combustible materials in accordance with U.L. file number MH-10644.

Exhaust duct shall be 18 gauge 400 series stainless steel with continuously welded longitude seams and U.L. Listed slip joint connections (skirt and clete) for all vertical rise sections. Slip joint connection shall be used for connection to hood collar in accordance with U.L. Listing and in compliance with NFPA 96. All horizontal sections shall be furnished with welding flanges for field assembly and shall include stand-offs located between the exhaust and supply duct to maintain required separation. Supply duct shall be 18 gauge MSG steel with continuously overlapped seams, stitch welded and sealed with a silicone caulk along the seams. Supply duct shall also have slip joint connections for field connections in all vertical rises.

Exterior support of the duct system is the responsibility of the installing contractor.

Clean-out doors shall be located in accordance with U.L. report and local codes.

“Installation in accordance with all applicable codes is The Sole Responsibility of The Installing Contractor!”

MULTIPLE HOOD MODULES

U.L. Listed concentric “TEE” or “Y” pant leg ducts shall be utilized to interconnect two or more hood modules (up to four exhaust and four supply collars) to a single vertical concentric duct riser. The concentric vertical riser shall be located as close as possible to the centerline of the pant leg duct. The vertical riser shall be connected to a single exhaust and supply fan system as engineered and furnished by Duo-Aire.

OFFSETS

Concentric supply and exhaust duct offsets may be located in the horizontal and/or vertical duct sections and may be one or two piece construction, dependent on center line to center line offset requirements. Concentric offsets shall have U.L. Listed slip joints for all vertical sections, and welding flanges for all horizontal sections. Cleanout doors shall be provided as required by U.L. Listing and local codes.

ELBOWS

Concentric supply and exhaust duct elbows, 45 degree to 90 degree, shall be single piece construction and may have U.L. Listed slip joints or welding flanges for vertical connections and welding flanges for all horizontal duct connections. Determination of type of connections shall be based on local code requirements.

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The concentric elbows shall be either full or modified radius elbows or square/rectangular elbows, dependent on space limitations. All elbows shall be equipped with U.L. Listed cleanout doors as required by U.L. Listing and local code requirements.

Vertical risers may be constructed of multiple sections, furnished with U.L. Listed slip joints (standard) or welding flanges if required by local codes.

Horizontal trunk lines may be constructed in multiple sections, furnished with welding flanges as required to meet U.L. Listing and local code requirements.

Concentric duct with supply duct crossover shall be utilized where separate exhaust and supply collars are on the hood and where U.L. Listed concentric duct is required. In this application concentric exhaust/supply ductwork shall be provided. The ductwork connection at the hood collar shall include a slip joint connection for the exhaust with a flange connection for the supply which shall rest upon the top of the hood. A supply duct crossover section shall connect from the concentric supply riser(s) to the supply collar(s) for field welding. Supply balancing dampers shall be installed in the crossover duct at an appropriate location, and an access door shall be provided for access to the U.L. Listed supply damper.

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