



POWERED AIRE INC.

www.poweredaire.com

109 Mortensen Road
Greenville, PA 16125

Phone: 724-588-3305
Fax: 724-588-3371

EXPLOSIVE AREA AIRE CURTAINS

SPARK RESISTANT CONSTRUCTION FOR HAZARDOUS AREAS

(DOORS UP TO TWELVE FEET HIGH)

SUGGESTED AIRE CURTAIN SPECIFICATIONS

MODEL LDX

All aire curtains furnished are complete factory assembled units as manufactured by Powered Aire Inc. Greenville, PA. Units will be manufactured for Class I Division I Group C & D and Class II Group F & G hazardous areas. Each unit consists of stainless steel casing, centrifugal fans, raised stainless steel inlet screen, discharge nozzle, and motor(s). The aire curtain unit provides a specific CFM and a uniform velocity across the entire length of the discharge area.

Units shall be furnished in single increments of sufficient structural strength to be supported from both ends without intermediate support. Multiple units shall not be permitted. Unit casing shall be a minimum of 18 gauge 304 stainless steel in a number three finish.

Motors will be $\frac{3}{4}$ horsepower explosion proof suitable for Class I Group D and Class II Group F & G. All internal wiring will be encased in hard pipe and ran to an explosion proof junction box. Motor(s) will be 1630 rpm each and shall be heavy duty type equipped with permanently lubricated, shielded ball bearings of equal size at each end and double extended shafts requiring no outboard bearings. Primary motor voltage shall be 115/208/230 volts 50/60 Hz single phase or 208/240/480/575 volts 50/60 Hz three phase.

Aluminum fans shall be forward curved centrifugal type, double inlet design. Tangential type blowers and coupling connection shall not be permitted in order to prevent sparks. Inlet screen shall be perforated stainless steel powder coated black.

Discharge nozzle shall be high efficiency discharge plenum, designed so that the air leaves on a 6 degree plane. Aire curtain creates a positive air seal with directional airfoil vane. The aluminum vane shall facilitate deflection of air stream ± 20 degrees.

Steam / Hot Water Coil

For steam or hot water heated units consult factory.

CONTROLS

OPTION I

Non Sparking construction for explosion proof areas control panel shall be an explosion proof Nema type 9, Class II, Division I and Group E, F, or G. Enclosure will encase magnetic motor starter, overload relays, 115 volt control transformer and terminal provisions for field wiring. A remote mounted explosion proof hand/off/automatic selector switch and an explosion proof door switch can be utilized for turning unit on while the door is open in the automatic position, or having the unit run continuously regardless of the door in the hand position.

OPTION II

If standard controls are to be remote mounted in a non-explosion proof area, a standard control panel and on/off switch can be utilized. Standard control panel shall be a Nema 12 enclosure. Enclosure will encase magnetic motor starter, overload relays, 115 volt control transformer and terminal provisions for field wiring. On/off selector switch will also need to be placed in a non-explosion proof area. If a door switch is required, it will need to be explosion proof type.

Unheated unit(s) shall have a 24 month warranty on all parts. Heated unit(s) shall have an 18 month warranty on all parts.

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