



POWERED AIRE INC.

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CORROSIVE DUTY

316 STAINLESS STEEL AIRE CURTAINS FOR CORROSIVE ATMOSPHERES

DOORS UP TO TWELVE FEET HIGH

SUGGESTED AIRE CURTAIN SPECIFICATIONS MODEL LDC

All aire curtains furnished are complete factory assembled units as manufactured by Powered Aire Inc. Greenville, PA. Each unit consists of 316 stainless steel casing, 316 stainless steel fan and housing, raised 316 stainless steel inlet screen, discharge nozzle, and "Mill and Chemical" duty 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 316 stainless steel in a number three finish.

Motors will be 3/4 H.P. 1725 rpm. Each shall be Totally Enclosed Air Over (TEAO) "Mill and Chemical" type equipped with permanently lubricated, shielded ball bearings of equal size at each end and double extended 316 stainless steel shafts requiring no outboard bearings. Primary motor voltage shall be 208/240/480/575 volts 50/60 Hz.

316 stainless steel fans shall be forward curved centrifugal type, double inlet design in matching 316 stainless steel fan housings. Tangential type blowers and coupling connection shall not be permitted. Inlet screen shall be perforated 316 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 vane shall facilitate deflection of air stream ± 20 degrees.

All unit fastening components, including screws and bolts, shall be type 316 stainless steel.

If 316 stainless steel is not required, 304 stainless steel can be substituted.

Heating Options

Please consult factory.

Controls

Control panel shall be factory furnished with a Nema 4X enclosure, constructed of 16-gauge type 316 stainless steel, including a 24 volt or 120 volt control transformer, magnetic motor starters, overloads, terminal strips and disconnect switch. Control panel shall be factory provided with a door mounted hand/off/automatic selector switch.

A door switch will be provided to activate the aire curtain when the door opens while the selector switch is in the automatic position.

Unheated units will have a 60 month warranty on all parts.

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