



# POWERED AIRE INC.

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## **SUGGESTED AIRE CURTAIN SPECIFICATIONS MODEL THS WITH HOT WATER OR STEAM HEAT**

All aire curtains furnished are complete factory assembled units as manufactured by Powered Aire Inc. Greenville, PA. Each unit consists of a casing, motors, centrifugal fans, protective inlet screen, discharge nozzle, and an optional 1 inch re-cleanable filter. Aire curtains will be equipped with access panels for motor and fan assembly. Individual motor and fan assembly can be removed without lowering the unit or lowering the bottom half of the unit. Aire Curtain unit to provide uniform velocity across the entire length of the discharge area. The units will be front air intake. Units are universally manufactured for wall mount or top mount.

Units to be constructed with sufficient rigidity to span the length of the opening without intermediate support. All weight bearing structural support will be made of formed 14-gauge stainless steel and galvanized steel. Outer casing shall be constructed of 18-gauge stainless steel. Intake screen will be 20 gauge perforated type stainless steel. Casing will be equipped with stainless steel access panels for inspection, cleaning and removal of motor blower assembly. Internal components shall be welded and bolted construction.

Motors at 3/4 H.P. 1630 rpm each 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 115/208/230/480/575 volts 50/60 Hz single phase.

Galvanized fans shall be forward curved centrifugal type, double inlet design, with zinc plated hubs. Tangential type blowers and coupling connection shall not be permitted.

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 air foil vane. The vane shall facilitate deflection of air stream  $\pm 20$  degrees. Unit shall have multiple speed motor(s) to control air volume down from maximum speed.

### **Steam / Hot Water Coil**

Unit(s) shall be provided with a factory mounted steam or hot water coil. The coil shall be mounted to the intake of aire curtain. Coil will consist of 5/8 inch O.D. copper tubes and aluminum fins. Coils will be certified to ARI standard 410.

Consult factory for optional top air intake.

Units shall have an 18 month warranty on all parts.

**April, 2005**