

GIRTON MODEL GD TUNNEL DRYER

SIZE AND DESIGN

The tunnel dryer shall be a fully automatic tunnel-conveyor type unit, designed to process plastic and metal animal cages, cage pans, feeders, lids, accessory equipment, and watering bottles in cases.

Animal cages and pans shall be dried in order to accept clean, dry animal bedding, if required.

DIMENSIONS

The dimensions of the tunnel dryer shall be compatible with the tunnel washer, and it shall be the same in construction details.

The tunnel dryer shall be designed for installation at the discharge end of the washer.

The conveyor belt load width shall be (30", 36", 42", 48"). The length of the dryer shall be approximately 96". (Dryers are also available in 6', 10', and custom lengths. Please consult the factory with your special needs.)

OPERATION

Drying shall be accomplished by circulating heated air over the items being dried. Air shall be drawn from the tunnel dryer compartment and circulated by a centrifugal blower thorough a finned type steam coil and returned to the tunnel dryer compartment. The duct system shall be provided with an adjustable air intake, to allow low humidity air to be fed into the system. Air entering the system shall pass through a dry type filter.

CONSTRUCTION

1. The tunnel dryer body shall be continuously welded, 14 gauge stainless steel, with a 2b finish on all interior surfaces.
2. Top, sides, and bottom of the tunnel dryer shall be insulated with 2" thick non-toxic, non-hygroscopic rigid foam insulation. Insulation shall be covered with an 18-gauge type 304 stainless steel jacket with a #4 finish on the exterior surfaces.
3. All air ducting shall be stainless steel, complete with dampers as required.
4. Blower housing shall be carbon steel with an epoxy enamel coating.
5. Bottom support channels shall be stainless steel.
6. The conveyor belt shall be stainless steel flat wire, 1" x 1" mesh, with 12 gauge rods, clinched selvage (Cambridge or equal). The conveyor belt shall be continuous through the washer and dryer. The conveyor belt shall be supported by heavy stainless steel belt guides through the entire length of the dryer. The drive unit shall be equipped with an adjustable overload clutch. The conveyor shaft bearings shall be self-aligning, ball bearing. Belt speed shall be variable. (This drive unit is common to both tunnel washer and dryer.)
7. The tunnel dryer shall be provided with stainless steel adjustable sanitary type leveling legs. Legs and leveling units shall be stainless steel.
8. An automatic temperature control shall regulate steam flow to the finned type steam coil and thereby regulate the circulated air temperature. The temperature control shall be located with the tunnel washer controls.
9. A hinged, insulated access door shall be provided on one side of the 8' and longer units.
10. All visible welds on the dryer interior and exterior shall be cleaned in a thorough manner.
11. The interior of the tunnel dryer shall be constructed to permit complete draining, and the drain shall be connected to the common drain header.
12. Services for the tunnel dryer shall be interconnected with the tunnel washer to, which the tunnel dryer is attached, and are listed under "Tunnel Washer Service Requirements".

OPTIONS

1. Hold-down mechanism manually controlled.
2. Hold-down mechanism, electrically driven, controlled from the load end of the tunnel washer.
3. Other options available.

CONSULT FACTORY WITH YOUR SPECIAL NEEDS.

* Please note that all sub components of Girton Washers are **NON-PROPRIETARY** and **COMMERCIALY AVAILABLE** from various sources, for **FLEXIBILITY AND ECONOMY OF MAINTENANCE** throughout the life of the washer.