



Aerowerks[®]
bringing new solutions to the table[®]

Slat Belt Conveyor System

Project: _____ Item #: _____

Model No.

SBC 110- Single 10" Belt

SBC 112- Single 12" Belt

SBC 210- Dual 10" Belt



Description:

The Aerowerks SBC system is designed for returning soiled dishware and/or trays from dining room to, or within dish room. The conveyor utilizes overlapping plastic slats attached to a stainless steel chain. The return side of the belt rides in a self-cleaning return track with no drip pan or drains required, except at the two ends of the conveyor. The belt is side flexing, for turning any number of corners on an 18" centerline radius. Tapered rollers on the underside of each slat serves to hold the belt down at corners (without physical guides) and greatly reduce friction. The belt can be lifted out of its track for occasional manual cleaning but the conveyor is equipped with an automatic belt wash/rinse feature.

Specifications for Slat Belt Conveyor

Provide UL and NSF listed slat belt conveyor of size and shape to suit customer's requirement.

A. SBC Belting

SBC Belting shall be Aerowerks K10SF-AD. Belting shall have a tensile strength of 6100lbs and shall "side-flex" to a minimum of 18" centerline radius at corners where required. There shall be no sliding friction at corners between belt and groove or guide rail. Both slide bed groove and return track shall be self-cleaning by the action of the belt. Belt take-up shall be accomplished by the natural catenary sag of the belt in the wash chamber.

B. Drive Frame

Drive frame shall be all-welded, formed 14-ga. stainless steel angle with 1-5/8" diameter 6" high stainless steel legs and adjustable stainless steel bullet feet

C. Drive Housing

Drive frame shall be fitted with an 18 ga. stainless steel housing to enclose drive frame on all sides. For access provide stainless steel double wall hinged insulated doors. Where side or end panels are fitted to frame, they shall be sealed with silicone. Drive cabinet to house all necessary plumbing and detergent injection pump for the belt wash system.

D. Drive Tank

Provide all welded 14 ga. stainless steel wash chamber equipped with lift-off access panels and removable scrap tray.

E. Drive Shaft

Provide 1" stainless steel drive shaft mounted within wash chamber on dual-type sealed bearings (Aerowerks grease-filled sealed cartridge inside chamber; precision ball bearing flange cartridge outside chamber).

SPECIFICATIONS FOR SLAT BELT CONVEYOR SYSTEM

F. Belt Wash

Provide wash system consisting of stainless steel manifolds inside wash chamber. Spray manifolds shall be located to effectively clean the belt on both sides, and shall be easily removable without tools.

G. Drive Motor

Provide variable speed A.C. motor, with AC inverter to vary the speed. Provide single-reduction worm gear reducer. Speed shall be changed by turning speed control knob on control panel.

H. Plumbing Connections.

- At Drive Cabinet (where shown) 1 1/2" waste • 1/2" hot and cold water - At Tail Tank 1 1/2" waste

I. Slide Bed

Provide 14 ga. 304 stainless steel bed formed with vertical and horizontal corners coved to a 3/4" radius. Unit shall be reinforced with channel mounted on 1 5/8" diameter tubular stainless steel legs with adjustable bullet feet and rails.

Main Control Center – 1 required

Provide UL Listed Main Control Center containing main disconnect, start-stop, speed control, and indicating lights. All components shall be neatly contained in a stainless steel watertight enclosure. All wiring shall conform to the latest UL standards. The electrical contractor shall bring **208V/1/15A** to the main of the panel, but wiring from the equipment to this panel shall be done by Aerowerks, and all wiring shall be carried in liquid tight conduits, including conveyor motor and controls. All electrical controls shall be approved for wet conditions and shall comply with all applicable codes. All enclosures for electrical components must be watertight.

Site Interconnections

- a. **Electrical:** Aerowerks shall be responsible for all interconnections of electrical work required for conveyor system. Final connections to building services shall be by others.
- b. **Plumbing:** All plumbing interconnections unless noted otherwise on Aerowerks drawings shall be by KEC. Final connections to building services shall be by others.

Installation & Warranty

Aerowerks shall install and adjust system to owner's satisfaction and shall provide adequate instructions to operating personnel. System shall be guaranteed for a period of one year for parts and labor under normal operating conditions, from date system is turned over to owner. Plumbing interconnections shall be by KEC.

Standard Features:

- Tray & trayless applications
- 1 5/8"Ø S/S legs with 15/8"Ø S/S crossmembers
- Work surface: 14 ga S/S construction, fully welded and polished.
- 3/4 HP washdown drive motor (typ. for over 60' with one or more turns)
- S/S side flexing #60 chain
- Side flexing slats with rollers, for smooth turns. Standard color charcoal, also available in gray, black and blue.
- Self cleaning return track
- S/S drive sprocket
- Lifetime drive bearings
- Tail cover
- Slats can be easily replaced
- S/S drive housing
- S/S drive motor
- Removable scrap basket in drive and tail housings
- Access panel for wash housing
- 1 1/2" Drain in drive unit
- Anti-jam switch at drive opening
- Detergent pump housing
- Belt wash, with auto wash option (PLC programmed timer for optimal cleanness and performance)
- Main control panel with start/stop, belt speed, limit switch, main disconnect.
- Limit switch
- Side Skirting

Optional Accessories:

- Plate Rinses
 - Auto (APR)
 - Manual (MPR)
- Additional start/stop box (s)
- Auto-index
- Wall or post mounted overshef
- Wall or post mounted tubular overshef
- Hose station with 30' hose & heavy duty water gun
- Laminated or S/S panels at drop off
- Sight and sound barrier c/w light fixtures
- Security door
- Fire rated shutter door
- Dual belt