

COBRA WINTER SPRAY SYSTEMS

TECHNICAL SHEET

1 | PRODUCT DESCRIPTION

Cobra Winter Spray Systems prevent ice build up on material handling conveyor belts to maintain operation and prevent material slippage on the conveyor.

2 | SYSTEM CAPABILITIES

- Capable of spraying the following Chemical Products manufactured by Midwest Industrial Supply, Inc:
Ice Fyghter® and Ice Free Conveyor®
- Full flow adjustable back to pump suction bypass capabilities for full range pressure output adjustments.
- Capability of being mobilized and set-up using no special tools.
- Capability of spraying at the tail pulley, head pulley or at the bend pulley

3 | PHYSICAL PROPERTIES AND SPECIFICATIONS

System Assembly

- The Cobra system assembly having dimensions of 30"L x 18"W x 30"H and a shipping weight of 320 Lbs (Crate weight)

Chemical Holding Tank – Option 1 - Drum - Supplied separately with the Cobra unit

- The chemical product holding tank is a Drum having a capacity of 55 gallons
- The drum dimensions are 24" dia. x 35" high (Excluding Pallet)
- When filled the drum has a weight of approximately 480Lbs (Excluding Pallet)

Chemical Holding Tank – Option 2 – Tote – Supplied separately with the Cobra unit

- The chemical product holding tank is an IBC having a capacity of 275 gallons
- The IBC dimensions are 39" x 48" x 45" high
- When filled the IBC has a weight of approximately 2300Lbs

Spray Manifolds

- A specially designed spray manifold assemblies manufactured using 3/4" steel tube with brass spray nozzles and ready for installation at a chosen location on the conveyor
- Spray nozzles are 1/4" male thread of brass construction and fitted normally at 8"centers.

Quantity and spacing of spray nozzles depends on the conveyor width



4 | SYSTEM PUMP SPECIFICATIONS

Pump Type and Capacity

- Oberdorfer Bronze Gear Pump Model 3000RS having a maximum flow rate of 7.25 GPM and a maximum pressure of 150 PSI

Pump adjustment

- Pump output adjustable by adjusting flow regulator valve to provide variable pressure of up to a maximum of 150PSI

Pump Motor

- Baldor Model VL3508 0.75HP 1140 RPM TEFC

5 | EXTERNAL ITEMS SUPPLIED WITH SYSTEM

- ½" dia. Galvanized steel suction tube assembly complete with ¾" dia. x 10 ft suction hose as standard
- Spray manifold assembly
- ¾" dia. X 100ft delivery hose as standard
- Additional hose can be requested base on site requirements

6 | VARIATIONS AVAILABLE WITH SYSTEM

Manual Operation

- Manual on/off switch. Operator assesses and determines amount of time sprayed

Press and Go Operation

- Operator adjusts the ON timer inside the control box to the time required for spraying
- Operator will set the Start/Stop switch to Start and the pump will operate until timed out

Automatic Operation

- Operator will initially set the run timer and the off timer to the desired run and off periods.
- Upon switching the unit to start, the Cobra unit will operate through the spray and no spray sequences until the Cobra unit is turned off

7 | POWER SUPPLY OPTIONS

- 120v single phase rated at 20 Amp
- 480v three phase rated at TBD
- 575v three phase rated at 1.5 Amp



8 | SYSTEM SUPPLY & INSTALLATION OPTIONS

Option 1 – Supply Only consisting of:

- The Cobra unit with items listed in section 5 plus Operating and Maintenance Manual (O&M), Installation schematics (as required)
- Installation carried out by Customer.

Option 2

- Option 1 plus supervision visits by Midwest Industrial Supply, Inc.

Option 3

- Option 1 plus installation and Start-up by Midwest Industrial Supply, Inc.

9 | CUSTOMER REQUIREMENTS & RESPONSIBILITIES

Supply and Installation of a power supply to the Cobra Unit Control Box

Site Specific Training for Midwest Industrial Supply, Inc., employees

Lock-out and Tag-out procedures during installation works

Provision of clean and weatherproof area for the positioning of the Cobra unit

Offloading of materials upon delivery at site.