Blue Smoke Capture System

Top Silo Emission System

DESCRIPTION

Blue smoke, comprised of hydrocarbons, odors and other off gases, forms naturally during the asphalt mixing and silo loading process. When the mix drops into the silo, the silo becomes pressurized and an equal amount of gases contained inside are then displaced. These gases have the propensity to be emitted into the atmosphere, as blue smoke, which is a possible environmental pollutant. Gencor's Blue Smoke Emission Capture System eliminates the potential for blue smoke escape. Gencor's unique and effective capture system permanently contains the smoke emissions created during the process and injects them into the burner combustion zone where they are used as fuel.

APPLICATION

In the Gencor top of silo emission control system, the displaced gases created during loading are vented back, through negative pressure, to the top of the batcher where they then occupy the volume previously holding hot mix. The blue smoke that is generated at the transfer points, batcher and conveyors is drawn down into the main slat conveyor to a knock-out box and through a centrifugal fan. The gases collected from the slat are then directed to a port on the dryer close to the burner. The gases are pulled through the burner flame, totally converted to fuel and burned. This operation completely eliminates odors and visible emissions while it creates valuable fuel savings.

The evacuation rate and balance of the mixer gases are controlled by a damper on the evacuation fan. The Gencor Top of Silo Blue Smoke Emission System consists of silo and batcher ductwork, a knock-out box with centrifugal fan, evacuation damper control and a discharge ductwork system which feeds the combustion burner.

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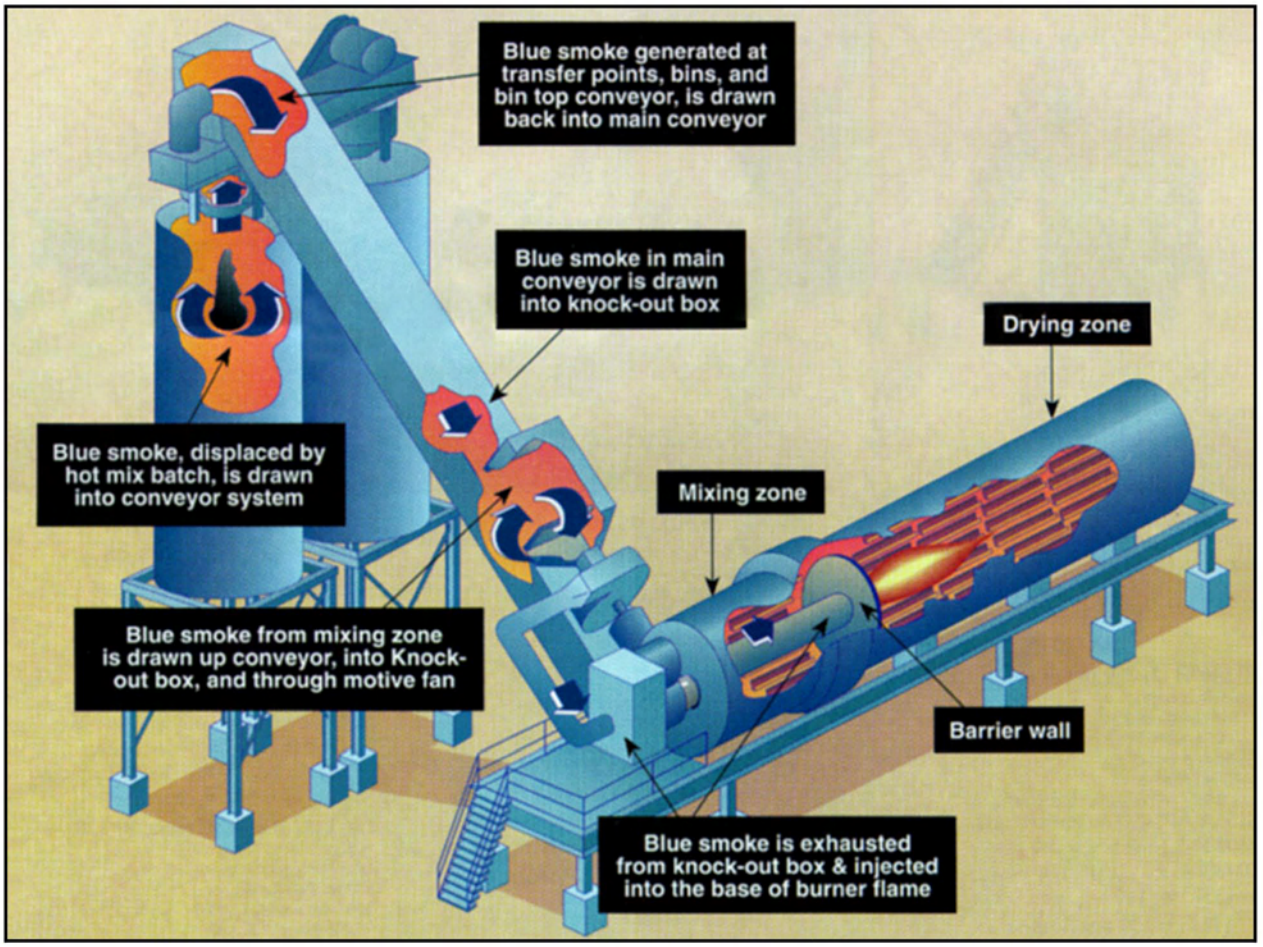

STANDARD FEATURES

Top of Silo—Fan with motor starter
Ductwork
Dampers with powdered actuators
Internal knock-out box

OPTIONS

Top of Silo—Enclosures
Mixing Unit—Modifications

SPECIFICATIONS

All units are designed to the specific application requirements.

Specifications subject to change without notice.
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