

FoamKleen XT[®] System Design

Portable
Cleaning
System

FRONT VIEW



BACK VIEW



FoamKleen XT: Frequently Asked Questions

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Where is FoamKleen XT used?

FoamKleen XT portable systems can be used in bunkers, trippers, transfer towers, crushers, conveyor lines, tunnels and other areas where combustible coal dust or other dust accumulates on walls, ceilings, equipment and other surfaces.

Is the FoamKleen XT easy to use?

Yes, the FoamKleen XT is made of lightweight material, compact in size and has pneumatic tires that make it easy to maneuver through doorways and on catwalks.

What is the required water pressure?

Minimum of 45 psi, optimum of 85 psi

What is the required air pressure?

Minimum of 50 psi

How much FoamKleen cleaning agent is used?

Approximately 1.0 gph

How long are the supply lines for this system?

50 feet of air and 50 feet of water

How long is the discharge line for this system?

50 feet

What do you do with the foam once it's on the floor?

A couple options would be to squeegee the foam into the bunker and burn with the coal, the other is to utilize a vac system and remove. The foam can also be left to dissipate. Once the foam and coal dust is on the floor the dust is more mobile while there is still remaining foam. It is easier to clean the floor before the foam dissipates.

Do you have to rinse the surfaces after cleaning?

It is not necessary to rinse the walls.

How much moisture is added to the coal if it is put into the bunkers?

Based on the volume of coal in your bunkers, estimate the total volume of water during the estimated spray time to calculate the moisture content. Example, 10,000 coal bunker, using 5 gpm of water/foam agent for 5 hours cleaning. Water factor would be 300 gallons per hour X 5 hours = 1,500 gallons at 8.3 #/gal = 12,450 pounds. $12,450 \div 2,000$ (# per ton) = 6.225 tons. $6.225 \text{ tons water} \div 10,000 \text{ tons coal} = 0.0006225$ (x 100 to get percent) = 0.06225% moisture added to 10,000 tons coal for 5 hours cleaning.

How often does cleaning need to be performed?

Initially you can achieve about 60% thorough cleaning. Each additional cleaning will improve efficiency each time. Most locations try to clean monthly if time and labor allow.

Is this application safe around electrical components?

Yes, but even though we are not aware of any motors or controls ever being affected, we still recommend taping or bagging electrical components.

Is this faster than hosing down with a fire-hose?

FoamKleen XT portable cleaning system may not necessarily be faster than a fire-hose, but in pre-cleaning preparation, water spray requires a lot of time and labor before cleaning can commence. Additionally, after cleaning with a fire-hose, many grease fittings require re-greasing due to the high pressure water affecting the grease on idlers, rollers, and other equipment.