•AGGLOMERATIVE DUST CONTROL•

•360 Degree Fogger Systems•

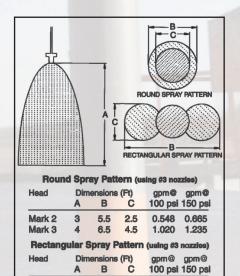
All standard 360 degree fogger systems include a fogger head, #3 nozzles, a valve, and a filter. Custom systems are recommended for optimum effectiveness.

Excellent for controlling fugitive dust at loading areas of a conveyor. For more information go to www.archenv.com or call (800) 553-4567.



System Information

Model	Part Number	Spray Pattern	# of Nozzles (#3)	Water Usage (gpm) @ 100 psi
#3 Nozzle	MFANO0300N00	Cone	1	.078
Mark 2	MSHFSMK2S00300100000	Round	7	.548
Mark 3	MSHFSMK3S00300100000	Round	13	1.020
Mark 4	MSHFSMK4S00300100000	Rectangular	9	.705



Mark 4 4 3.5 2.5 0.705 0.855







MARK 4

- No soaps, detergents, or suffectants needed.
- Less than 5.7 gph per nozzle.
- · All spray nozzles have brass housings with stainless steel cores and inserts.
- Fogger components connected to supply pump by a 3/8 in (9.5 mm) supply line.
- Water Pressure: 100 to

•Pumps•

Pump Size	Cluster Head	Water Usage (gph) @ 100 psi	Water Usage (gph) @ 150 psi
3/4 hp	Mark 2	15	6
	Mark 3	8	3
	Mark 4	12	5
	Single Nozzle	112	47
1 hp	Mark 2	22	12
	Mark 3	12	6
	Mark 4	17	9
	Single Nozzle	159	84
2 hp	Mark 2	36	22
	Mark 3	19	12
	Mark 4	28	16
300	Single Nozzle	255	157
3 hp	Mark 2	48	34
	Mark 3	26	18
1/2/0	Mark 4	37	27
	Single Nozzle	339	205



Part Number	HP	Volts
MPUFS75HP1PH0010000	3/4	120/240
MPUFS75HP3PH0010000	3/4	230/460
MPUFS01HP1PH0010000	1	120/240
MPUFS01HP3PH0010000	1	230/460
MPUFS02HP1PH0010000	2	120/240
MPUFS02HP3PH0010000	2	230/460
MPUFS03HP1PH0010000	3	120/240
MPUFS03HP3PH0010000	3	230/460
(%)		

360 Degree Systems **Spray Bar Systems** -Agglomerative Dust Control-**Hoops & Customs Dust Confinement**

EQUIPMENT, INC.

-What Dust Control?-

(Conveying Confidence)



•Hoops & Customs•

•SPRAY BAR SYSTEMS•

All standard spray bar fogger systems are equipped with #3 nozzles spaced 6" from either end and every 12" in between. Includes a 2-10' bar, #3 nozzles, a valve, and a filter. Custom systems are recommended for optimum effectiveness.

Excellent for loading areas of a conveyor. For more information (800) 553-4567.



•Dust Confinement•

Simplicity Chute Baffle®

grass skirting

-corrosion-resistant

-stops high-velocity dust at transfer points -2 layers of super-premium 3/4" polyurethane -24" or 48" baffles -custom widths -3-stage curtain with

Simplicity Access Door®

-fasteners and seal included -aluminum endoskeleton -adaptor plate included -8" and 12" openings -corrosion-resistant -custom imprint (ie. your logo) on 12" doors -easily installed on existing structure



www.archenv.com

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P.O. Box 1760, Paducah, KY 42002 (800) 553-4567 info@archenv.com

Primary Cleaners-Secondary Cleaners-Belt Support-Sealing Systems-Belt Scales-Scale I Belt & Personnel Safety-Dust Suppression-Conveyor Management



•WHAT DUST CONTROL?•

IS DUST CONTROL REALLY NECESSARY?

Yes. Dust control is no longer just an act of goodwill. Today, it's not an option and more than ever people are paying attention; enforcement of environmental regulations is a priority and stiffer penalties are the

How can dust be controlled?

Even in hard times a FUGITIVE DUST PREVENTION PLAN must be in place. How you plan to attack problem areas on your conveyor can have far-reaching consequences, good and bad.

The most proven method of controlling fugitive dust consists of 3 steps:

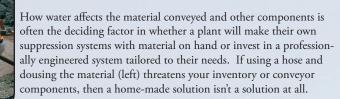
- 1. CONFINE the dust to an enclosed area
- **2.** *SEAL* material on the conveyor
- 3. SUPPRESS dust particles back to material flow

All 3 play integral roles in effective dust management. Here we focus on number three, dust suppression.

How do you suppress dust?

Water is the constant variable of most suppression systems. Its tendency to bond to surface materials such as minerals, wood products, and chemicals makes water an effective bonding agent. Gravity takes over by pulling dust particles back down to the material flow. Water is the most natural

element used to control dust. It's safe for your material, equipment, and crew, while easily accessible, inexpensive, and simple.



The most efficient, chemical-free method of suppressing fugitive dust is agglomeration. Agglomeration moistens the material enough to allow gravity to pull the extra mass back into the material flow without corroding your equipment (right) or saturating your product.

Bonding to like-sized water droplets, dust particles become denser and immediately re-join the material flow. Reduced to a fine spray, atomized water collides with dust particles and they

agglomerate, or cluster, increasing the gravitational pull and accelerating their return to the material flow This is done with a minimal amount of water and no chemicals.

ARCH Fogger Systems use quality components and are engineered to your specifications and are:

- SAFE FOR MOST BULK MATERIALS
- Easy to install and maintain
- Cost-Effective
- Easily customizable.

For more ARCH Fogger information visit www.archenv.com.



THE FRONTS OF AGGLOMERATIVE DUST AND SOLUTIONS

HOPPER

U-SHAPED HOOP AROUND OPENING IN WINDSCREEN. SPRAY BAR AND V-JETS ON SIDES. STRAIGHT FOGGERS ALONG TOP.

IF NO WIND SCREEN, HOOP MOUNTED HORIZONTALLY.

2ªb. LOAD CHUTE HEAD

MULTIPLE 7-NOZZLE SPRAY HEADS ALONG LENGTH OF LOAD CHUTE. CHUTE BAFFLE ON END.

3. HEAD BOX

9-NOZZLE CLUSTER HEAD.

4. TRANSFER CHUTE

9-NOZZLE CLUSTER HEAD.

5. LOAD CHUTE TAIL

7-NOZZLE HEAD WITHIN TAIL BOX.

6. INSIDE LOAD CHUTE

7. LOADING CHUTE MID-POINT

7-NOZZLE CLUSTER HEAD.

CHUTE BAFFLES IN CONJUCTION WITH SPRAYS

