RECTANGULAR AIR PAD

TM-MM-AP

The Air Pad TM-MM-AP operates by continuously introducing air into the body of the dry powder. When a powder is first conveyed into a storage vessel it is actually a highly aerated mixture of air and particulate. In this state the mixture flows quite readily. However, as the powder settles the solid particulate and air separate resulting in a decrease in volume and an increase in bulk density. In this deaerated state powders can behave more like a single large solid structure rather than a fluid-like mixture. By replacing the naturally lost air, the air to particulate mixture ratio is held thus maintaining the fluid like characteristic of the aerated powder. For best results in promoting the flow of dry bulk powders, multiple rows of air pad bin aerators should be used. The number of rows and quantity of air pads in each row will differ by application. Monitor application engineers are ready to provide you with the best recommendation for your specific material flow problem.
Generally, four rows of air pad bin aerators on 12 inch (305mm) or 15 inch (381 mm) centers is recommended. While the effective radius of each air pad is approximately 10 inches (254 mm), the air pads should be spaced so that the entire troublesome area is within the sphere of influence of the air pads.

Typical Applications include, but are not limited to:

- Cement, Bentonite, Gypsum
- Soda, Ash, Lime, Flour
- Carbon, Black Fly Ash, Resins

Accessories

An external mounting kit is available. This kit can completely eliminate the need to enter the bin to install or service air pad bin aerators. Using a 2-5/8 X 6-5/8 inch (66.5 x 162 mm) cutout hole in the bin wall, the mounting kit can be completely installed and serviced from outside the bin. Our air pad and external mounting kit can easily install in existing cutouts of other brands.
The external mounting kit includes gaskets, clamp bracket, rectangular mounting bracket and necessary hardware for mounting with your air pad bin aerator and its mounting hardware. An external mounting kit for high temperature applications is also available.

Ordering information

3	-	8	5	X	X

Material
1 = nickel-plated steel
2 = stainless steel

Diffusormaterial
1 = Cotton
2 = Fiberglass

Specifications

Air Supply: Clean, dry air 3 to 5 psi
Air Consumption:
1 psi - 4.2 scfm (0.07 bar - 1.2 m3/min)
2 psi - 5.7 scfm (0.14 bar - 1.6 m3/min)
3 psi - 6.5 scfm (0.21 bar - 1.8 m3/min)
4 psi - 7.1 scfm (0.28 bar - 2.0 m3/min)
5 psi - 7.6 scfm (0.35 bar - 2.2 m3/min)
Material of construction
Body: Zinc-plated steel or 304 stainless steel
Diffuser: Cotton (up to 180°F/82°C) Fiberglass (up to 650°F/343°C)
Diffuser Screen: 16 mesh zinc-plated steel or 304 SS
Air Inlet Nipple/Nut: 1/8“ NPT nickel-plated brass
Spacer Washers: Nickel-plated steel
Washer/Gasket:
Silicone (up to 650°F/343°C)
Gaskets: Neoprene (up to 180°F/82°C)
High Temp Gasket: Up to 300°F/149°C

Accessories

TM-MM-3-8010 External mounting kit
TM-MM-3-8011 External mounting kit
Brackets/Lockwasher: Zinc-plated steel

All specifications are subject to change without notice

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