

Model RA

Bin Aerator

Affordable aeration!

Low cost aerator pads promote flow to enable proper material level control



The Next Level

BlueLevel[®]
technologies

Principal of Operation

BlueLevel Technologies helps industry monitor and measure the level of powders, granular and liquid materials in a wide variety of vessels. Accessory items such as the Model RA bin aerator are available to promote and maintain the flow of material so that proper level control and measurement can be ensured. Operating on a wide range of powders and bulk solids the Model RA bin aerator promotes the flow of materials from bins and silos using the proven principle of aeration. As the material in your bin settles, air escapes and the material packs and behaves as a solid mass. The Model RA is a heavy-duty aerator provided in the industry standard rectangular size of 3-¾" x 7-½" and is used to introduce low pressure air into the material in the bin, thereby restoring its natural aerated state allowing the material to flow. In this manner bridging, ratholing and other material flow problems can be resolved and proper bin level indication and control ensured.

Application

Aeration of powders in the cone sections of bins and silos provides best results with materials of 60 mesh size and smaller, and with 3% moisture content or less. The area of effective operation per aerator is approximately a 20" diameter from its center. The Model RA bin aerator works well to promote the flow of cement, flyash, lime, carbon black, flour, soda ash, diatomaceous earth, gypsum, soap powders, clay and many other materials.

Accessories

PART# 231000

External mounting kit for Model RA rectangular bin aerators (uses internal mounting hardware supplied with aerator). This accessory replaces competitors' items AD-K and 3-8010.

Technical Data Summary

Air Supply: Clean, dry air, 3-5 psi

Air Consumption:

- 4.2scfm @ 1psi (1.2m³/min @ 0.07bar)
- 5.7scfm @ 2psi (1.6m³/min @ 0.14bar)
- 6.5scfm @ 3psi (1.8m³/min @ 0.21bar)
- 7.1scfm @ 4psi (2.0m³/min @ 0.28bar)
- 7.6scfm @ 5psi (2.2m³/min @ 0.35bar)

Materials of Construction:

- Body: Zinc-plated steel
- Diffuser: Fiberglass (Up to 650°F/343°C)
- Diffuser Screens: Zinc-plated steel
- Air Inlet Nipple/Nut: Brass, Nickel Plated
- Spacer Washers: Zinc-plated steel
- Washer/Gasket: Buna-N (Up to 180°F/82°C)
- External Mount Kit:
 - Brackets/Lockwashers: Zinc-plated steel
 - Gaskets: Neoprene (Up to 180°F/82°C)

Model RA

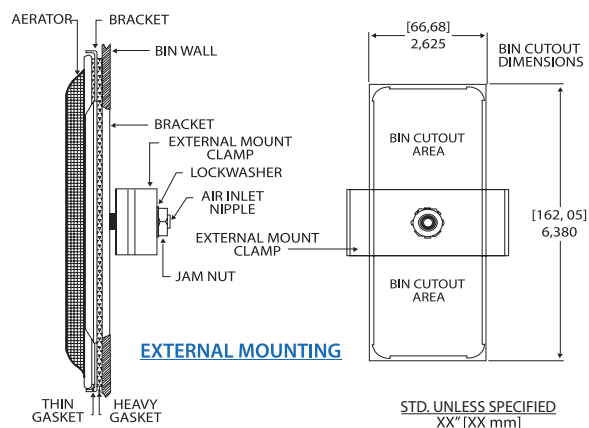
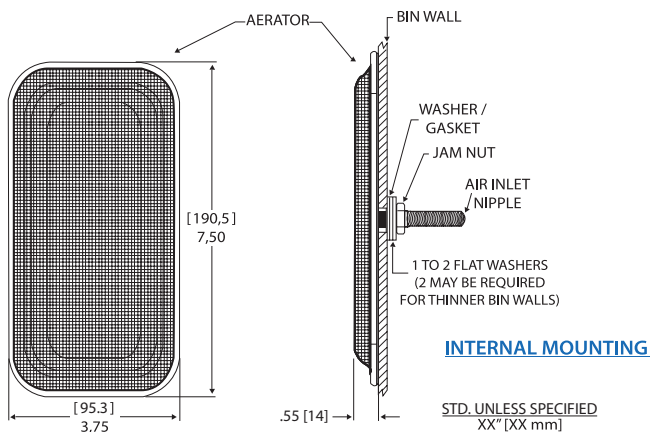
Bin Aerator

- ✓ Low cost – affordable aeration
- ✓ Keep material moving – enable proper level control
- ✓ Promote material flow naturally – no damage
- ✓ Heavy-duty construction – **continuously** welded air inlet flange nut withstands rigors of concrete batch plants
- ✓ Fiberglass diffuser – resists clogging
- ✓ External mounting kit available – simplifies installation

Available Model

PART NUMBER 230012

Model RA rectangular bin aerator with fiberglass diffuser (includes hardware for internal bin mounting). This unit replaces competitors' items AD-C, AD-F, 3-8511 or 3-8512. The 230012 with fiberglass diffuser is recommended for materials or environments with moisture present as the diffuser material is more resistant to clogging in these applications.



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