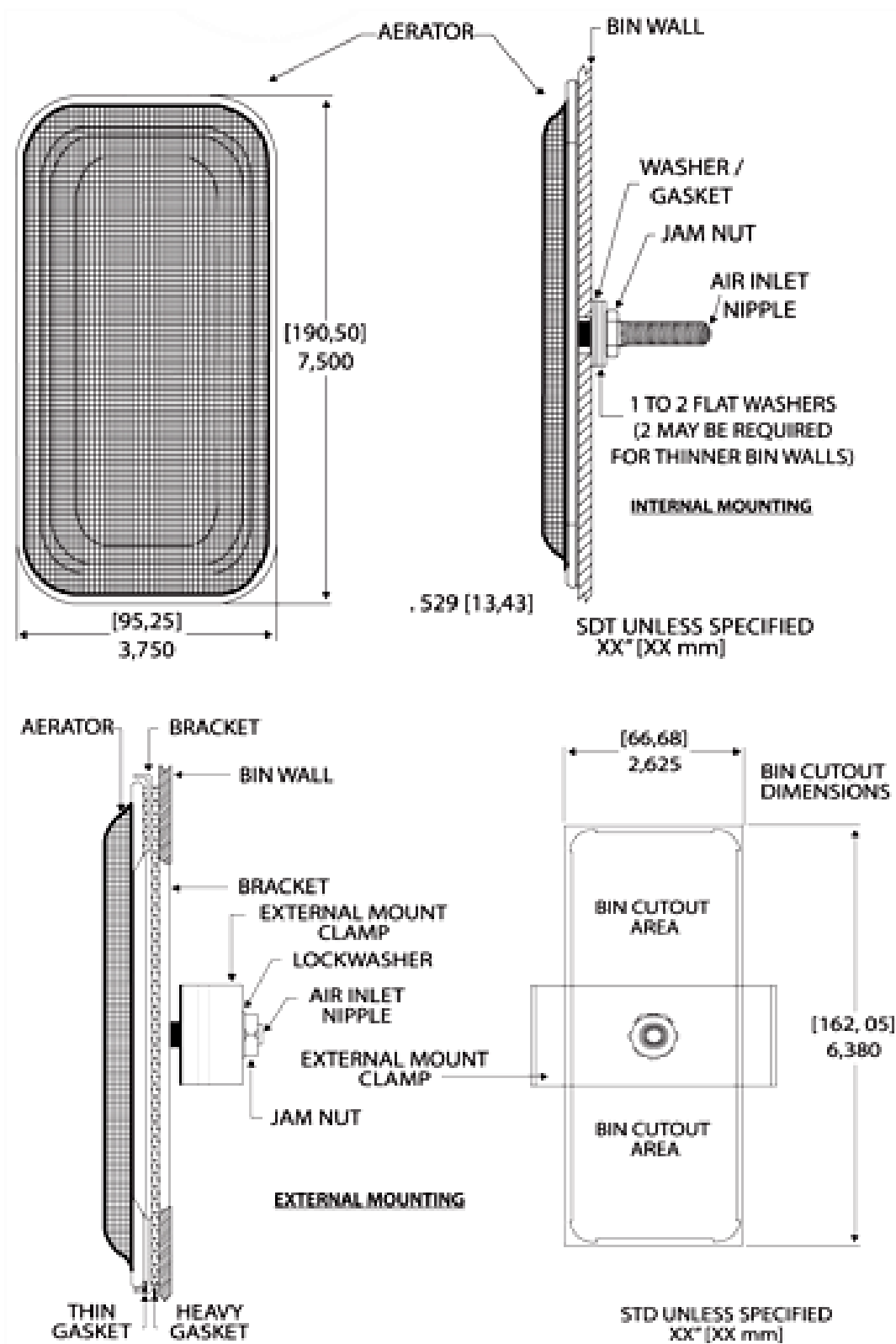


# MODEL RA

## Bin Aerator

Efficient, low-cost aerator pads promote flow to enable proper material level control.



## ABOUT

Ensuring proper material flow of powders and bulk solids within bins, hoppers and silos is important to proper bin level indication, level control and level sensor operation. Ratholing and bridging can occur in many situations, leading to false level control and level sensor indication, as well as production problems. Bin aerators introduce air back into powder materials to restore the material to its naturally aerated state and allowing it to flow readily.

The Model RA is provided in a rectangular size that is standard within concrete batching plants and other industries. Construction is of zinc-plated steel with a fiberglass diffuser material and an external mounting kit accessory.



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



# MODEL RA

## Bin Aerator



## Technical Data

<b>Air Supply</b>	Clean, dry air, 3-5 psi
<b>Air Consumption</b>	4.2scfm @ 1psi (1.2m <sup>3</sup> /min @ 0.07bar) 5.7scfm @ 2psi (1.6m <sup>3</sup> /min @ 0.14bar) 6.5scfm @ 3psi (1.8m <sup>3</sup> /min @ 0.21bar) 7.1scfm @ 4psi (2.0m <sup>3</sup> /min @ 0.28bar) 7.6scfm @ 5psi (2.2m <sup>3</sup> /min @ 0.35bar)
<b>Materials of Construction</b>	Body: Zinc-plated steel Diffuser: Fiberglass (Up to 650°F/343°C) Diffuser Screens: Zinc-plated steel Air Inlet Nipple/Nut: Nickel-plated brass Spacer Washers: Zinc-plated steel Washer/Gasket: Buna-N (Up to 180°F/82°C)
<b>External Mount Kit</b>	Brackets/Lockwashers: Zinc-plated steel Gaskets: Neoprene (Up to 180°F/82°C)

## Accessories

### PART# 231000

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

## 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 3-3/4" x 7-1/2" 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 and Use

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 20" diameter. 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.

## Models Available

### PART# 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 all materials or environments including those where moisture is present as this diffuser material is resistant to clogging.



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