

Pulsar Cabinet Application Notes

These notes are offered to facilitate the sale of properly configured cabinets to ensure customer satisfaction. We recommend that you always consult the owner's manual for application and operational advice when preparing a cabinet quotation. See page v in the front of the book for full-load amps.

• Standard Cabinet Specifications

Standard electrical specifications are shown for each cabinet; non-standard electrics may be subject to an upcharge. Reclaimer wear plates are standard on all models.

Pulsar cabinet models are available in three sizes: referred to as III, VI, and IX. Model designations are S for suction, P for pressure, and E for ergonomic.

• Air Jets (Orifices) and Nozzles

In suction cabinets, the size of the air jet (aka orifice) determines the air-flow volume (cfm). Air jets are sized in 32nds of an inch. Nozzles are sized in 16ths. The sizes of the air jet and nozzle should match i.e. #5 air jet (5/32-inch) and #5 nozzle (5/16-inch). BNP guns come with an air jet only so that application-specific nozzle (ceramic, tungsten, or boron) can be ordered. Standard cabinets come with #5 BNP gun and #5 ceramic nozzle.

In pressure systems, the size of the nozzle determines the air flow volume (cfm). Standard pressure-blast cabinets include a 3/16" nozzle. Larger nozzles up to 5/16" can be used; but should be used only when necessary in high-production or difficult blasting applications that require a high volume of air. With larger nozzles, media flow should be lean or recovery from the cabinet hopper may be impaired.

• Aggressive Media/Aluminum Oxide (Alox) Kits

When using aggressive media, such as aluminum oxide, silicon carbide, or garnet, a rubber-lined reclaimer and an aluminum oxide kit should be factory installed. Alox kits include boron carbide nozzle and black rubber curtains (optional white curtains are available for improved reflectivity). Field-installed kits are listed in the cabinet replacement parts section of this book.

• Heavy Metallic/Steel Media

Pulsar cabinets (VI and IX suction models and III, VI, and IX pressure models) can effectively handle steel grit and shot with a steel media kit installed and with certain mesh-size limitations. Media size limitations: Pulsar III pressure and VI suction and pressure models—maximum G80 grit or S110 shot; Pulsar IX suction and pressure—maximum G50 grit or S170 shot. To prolong cabinet enclosure wear life, order rubber curtains.

• Lightweight/Fine-Mesh Media

When ordering a new cabinet or reclaimer replacement for use with media 180 mesh or finer, order an adjustable vortex cylinder; and request that the media knockdown baffle be removed. Removing it will minimize usable-media carryover to the dust collector. For plastic media, choose from the available Aerolyte models, which are configured for plastic and other non-aggressive media.

• HEPA Filter Option

Current Pulsar cabinet models are designed to include a removable cover plate on top to ease addition of an optional HEPA filter, stock no. 22807, which can be factory- or field installed. Older Pulsar models manufactured and shipped prior to January 2002 do not have a removable cover plate on top. Instructions for field modification of these older Pulsars are available. A HEPA can be field installed on cabinets shipped from February 2002 forward. To determine field conversion, consult the following serial number guide:

- Pulsar III: Serial numbers 50977 or higher
- Pulsar VI: Serial numbers 50966 or higher