

BNP 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.

• Standard Electrical Specifications

Electrical specifications are shown on each cabinet page. Non-standard electrics may be available and may incur an upcharge. Consult Customer Service. See page v in the front of the book for full-load amps.

Cabinets with single-phase wiring have dual voltage motors, 115v/208-230v/1/60. The cabinet standard is 115 volt; if 208-230v is required, please specify the voltage when placing your order.

Cabinets with 3-phase wiring have dual voltage motors, 230v/460v/3/60. The standard is 230v, if 460 is required please specify the voltage when placing your order.

• 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.

Before substituting nozzles larger than the one supplied as standard, consult the Nozzle Options and Media sections in the Owner's Manual. A larger reclaimer and dust collector may be needed for optimum performance.

In pressure cabinets, the size of the nozzle determines the air-flow volume (cfm). Standard cabinets come with a 3/16" nozzle. Larger nozzles may be used in some applications. Media flow should be adjusted or recovery from the cabinet hopper may be impaired.

• CDC Dust Collector Dimensions (Allow additional height for filter replacement)

CDC-1-300: 25" x 27" x 94"; (cartridge: 36"H); CDC-1-600: 25" x 27" x 94"; (cartridge: 36"H)

CDC-1-900: 25" x 27" x 96"; (cartridge: 52"H)

• Reverse-Pulse (RP) Collectors

Choose from CDC and RPH models. CDC models have 1 filter cartridge and manual pulsing. RPH models have multiple cartridges and automatic pulsing features.

• HEPA Filters

For additional exhaust filtration, high efficiency particulate air (HEPA) filters may be ordered for CDC and RPH collector.

• Adjustable Vortex Cylinder

Adj vortex for fine-media is standard on RPH cabinet models and optimal on cabinet models with CDC collector in 600 and 900 sizes. Reclaimer wear plates are standard on all models.

• 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 are recommended. Alox kits include boron carbide nozzle and black rubber curtains (white are also available when reflectivity is desired). Field-installed kits also include light-lined flex hose and reclaimer wear plate.

• Heavy Metallic/Steel Media

When using heavy ferrous metallic media, such as steel grit (maximum G50) or shot (maximum S170), for sufficient exhaust velocity, order 900 cfm or larger reclaimer with the BNP-65 and 220, and 1200 cfm or larger with BNP-600/6012 and 720/7212 and Double cabinets. Reclaimer and flex hose must be sized for this heavier media. To prolong cabinet enclosure wear life, install rubber curtains.

• Lightweight/Fine-Mesh, Non-aggressive Media

When ordering a cabinet that will be used with media 180 mesh or finer, order an adjustable vortex cylinder; and specify 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 designed/configured for applications calling for plastic or other non-aggressive media.

• BNP-600 and BNP-720 Mini Blast Rooms now called BNP 6012 and 7212

Cabinet updates in 2012 necessitated renaming. Dimensional changes affect curtain sizes. Make sure to verify cabinet model before ordering replacement alox kits or curtains. BNP 600 is now BNP 6012; BNP 720 is now BNP 7212.