



## Portable 3-A Dairy Dumping-Conveying System

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## Portable 3-A Dairy Dumping-Conveying System

Flexicon's manual dumping system with integral conveyor and separate dust collector is suitable for dairy powders, pharmaceutical products, and contamination-sensitive bulk foods.

Designed and finished to 3-A sanitary standards, the system is comprised of a manual dumping station with surge hopper, flexible screw conveyor and support boom on a caster-mounted frame, plus a separate mobile dust collection system that can be configured alongside or remotely. Ready to plug in and run, the mobile system can serve multiple functions throughout the plant, and then be rolled to a washdown station and storage area.

A dust hood with hinged lid is mounted to the floor hopper with quick release clamps, and is equipped with an internal baffle and air vent port for efficient dust collection. A support tray allows operators to stage manual additions from hand-held sacks before dumping material through a grate fabricated of powerful rare earth Neodymium-iron-boron magnet material.

The hopper is equipped with a mechanical agitator assembly to promote uninterrupted flow into the charging adapter of a 10 ft (3 m) flexible screw conveyor with a stainless steel screw engineered for the conveyed product. Fully enclosed in a polymer tube inclined at 45 degrees, the flexible screw is the only moving part contacting material, and is driven by an electric motor beyond the point of discharge, preventing material contact with the 3-A rated motor shaft seal.

All product contact surfaces are of #316 stainless steel with continuous welds ground and polished to 180 grit or better, including the specially designed screw which is welded instead of fastened to the motor drive shaft. A quick-release end cap allows removal of the flexible screw from the lower end of the crevice-free conveyor tube for rapid sanitizing and inspection of both components.

Safety interlocks prevent operation of the conveyor during screw removal or separation of the dust hood from the surge hopper.

The stand-alone dust collector is equipped with an automatic reverse-pulse filter cleaning system with stainless steel air reservoir rated at 99.99% collection efficiency for materials with particle sizes of 5 microns or greater. Solenoid valves release short blasts of compressed air inside the cartridge filters on an alternating basis at timed intervals, dislodging dust build-up from outer filter surfaces with no loss in efficiency. The raised height of the unit allows gravity discharging of accumulated dust into mobile bins, drums or other vessels for disposal, or reintroduction in select non-dairy applications.

NEMA 4 and NEMA 4X enclosures and washdown rated motors allow rapid sanitizing using steam, cleaning solutions and high pressure water.



*The raised-height dust collector can be positioned adjacent to the frame-mounted dumping station and conveyor (shown) or remotely. Mobility enables the system to serve multiple functions prior to being sanitized at a washdown station.*

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