

## POWERFILL VACUUM CONVEYING SYSTEM



Model ÔT ÆPF4  
PowerFill

# PORTABLE CONVEYING CONTROL AND VACUUM PUMP

The PowerFill integrated vacuum system eliminates the maintenance of a self-contained loader, without adding the complexity of a central vacuum system.

Incorporating a peripheral pump that requires no oil or belts, plus an easy-to-clean cartridge filter for dust collection and up to two loading controls, the PowerFill is a versatile, ready-to-use vacuum source for your conveying needs.

Simply wheel the PowerFill into position and connect the unit to a three-phase power source. Vacuum connections are made with flex hose. Snap together cable sets provide quick, no-tools connections from the control to one or two vacuum receivers.

## INTEGRATED VACUUM SYSTEM FOR ONE OR TWO RECEIVERS

The PowerFill comes equipped with one or two Selectronic conveying controls. The Selectronic can operate a full range of loading functions including: single material and/or ratio loading; gravity or positive discharge valves; material line purging; and volume or time fill loading. Material flow fault alarms with an output signal are also provided.

If you buy a PowerFill with only one Selectronic control, you can easily add a second control in the field to upgrade the unit for use with two vacuum receivers.

An optional sequencing valve allows the pump to run between loading cycles, eliminating nuisance start and stop cycles that can reduce pump life.

### ■ Pump, dust collector & control

Because the PowerFill comes with all three, it's a versatile, ready-to-use vacuum source and control for conveying.

### ■ Compact, portable design

The small footprint preserves valuable floor space and makes the PowerFill easy to move to any conveying station.

### ■ Easy to install

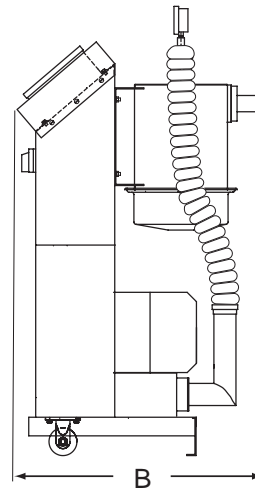
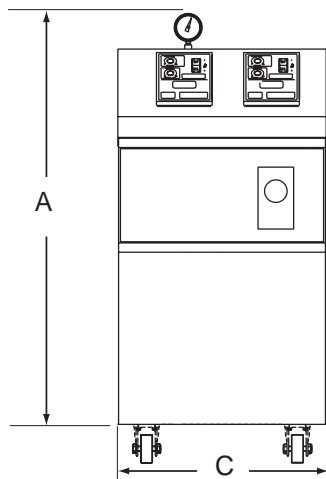
Just tilt the unit, wheel it into place and connect it to a three-phase power source. Snap-together cables and flex hose completes the connections to vacuum receivers.



### ■ Minimal maintenance

When compared to self-contained loaders with motor brushes and complex central vacuum pumps, this direct-drive three-phase pump is easy to maintain. The pump doesn't need oiling, and there are no belts to maintain. The single, high-capacity dust collection filter requires no tools for fast removal and cleaning.

**POWERFILL VACUUM CONVEYING SYSTEM**



MODEL	7A!PF-1	7A!PF-4	7A!DF-6
<b>Performance characteristics</b>			
Maximum throughput lb {kg}	900 {408}	1300 {590}	3200 {1452}
Motor Hp {kW}	2.33 {1.75}	3.6 {2.7}	6.16 {4.6}
Vacuum/material line sizes inches {mm}	1.5	1.75	2.25
Maximum tubing length ft {m}	100 {30.5}	175 {53.3}	225 {68.6}
<b>Dimensions inches {mm}</b>			
A - Height	49 {1245}	49 {1245}	49 {1245}
B - Depth	28 {711}	28 {711}	28 {711}
C - Width	23 {584}	23 {584}	23 {584}
<b>Weight lb {kg}</b>			
Installed	285 {129}	285 {129}	300 {136}
Shipping	385 {175}	385 {175}	400 {181}
<b>Filter</b>			
Filter type	Paper cartridge filter		
Number of filters	1		
Total filter area ft <sup>2</sup> {m <sup>2</sup> }	41 {3.8}		
<b>Voltage Total amps</b>			
208V/3 phase/60 Hz	7.2	10.6	19.5
240V/3 phase/60 Hz	6.6	10.2	17.6
380V/3 phase/50 Hz	5.2	5.9	8.3
415V/3 phase/50 Hz	5.1	5.6	7.8
480V/3 phase/60 Hz	3.3	5.1	8.8
575V/3 phase/60 Hz	2.7	3.3	7.0

**APPLICATION NOTE:**  
 If conveyed materials exceed 200° F {93° C}, an after-cooler may be required on the incoming vacuum line.  
 The Powerfill dust collector may be supplemented with a higher capacity dust collector if excessive material dust is anticipated.  
 Rigid tubing is recommended for longer vacuum and/or material lines.

**SPECIFICATION NOTE:**  
 Specifications can change without notice. Contact a T ~~3~~ [ ] representative for the most current information.

**EACH POWERFILL INCLUDES:**

- Three-phase peripheral vacuum pump with gauge.
- One or two Selectronic controls, each with a 20 foot {6.1 m} loader connection cable.
- 41 ft<sup>2</sup> cartridge filter.
- Dust collection chamber with no-tools access for easy cleaning.
- Tilt-back casters and handles.
- Single control models include 15 foot {4.6 m} flex hose and clamps.
- Dual control models include 30 foot {9 m} flex hose, clamps and a vacuum tee.

**POWERFILL APPLICATIONS**

- One or two machine installations
- Two-stage loading: from gaylord to hopper, hopper to machine
- Continuous filling of a gaylord or surge bin
- Loading a high throughput machine
- Central vacuum power for small manufacturing cells
- Eliminating noisy, high maintenance vacuum motors on loaders

