

Hydro-Flo Food Pump

The Hydro-Flo Food Pump transfers delicate food product by using water as a transport medium. The water supports and serves as a protective cushion to the product being handled. The Hydro-Flo Food Pump can elevate and convey many products quickly and gently.

To go along with the Hydro-Flo Food Pump, a complete pumping system is available to cool or convey products while reclaiming the water for another cycle.

Flexible Installation

- Convey horizontally, vertically, or both in the same system
- Replaces belt conveyors for many applications

Easy Upkeep

- Smooth stainless steel tank for fast and thorough sanitation
- Smooth all stainless steel frame—less upkeep; no repainting

Compact

- Less space than elevating, bucket, or screw conveyors

Trouble-free Pump Unit

- No clogging: single port impeller conveys in cushion of water
- Iron cast pump: heavy wall section castings—better corrosion and abrasion resistance
- Pump also in stainless steel casting or with epoxy coating
- Stress-proof shaft: special steel in replaceable AISI stainless steel sleeve; or solid stainless steel
- Long bearing life: steel bearings in oil-filled frame. Average bearing life is 20,000 hours
- Two volute designs: standard volute 152 mm (6") pump; expanded volute 102 mm, 152 mm, and 203 mm (4", 6", and 8") pumps

Many Options

- Air-controlled water inlet valve—accurate, constant water flow into the pump
- Variable speed drives, including ac inverter systems, for altering pump speed
- Buoyant-product tanks for gentle handling of floating products (apples, etc.)
- Spray bars to help control foam
- Extended legs for added height
- Variety of motor horsepower



Multiple Uses

- Transport several hundred feet
- Cushion and transport delicate products
- Elevate product gently, without mechanical damage
- Preheat product before cutting, peeling, etc.
- Hydro-cool product to remove field heat, after blanching, etc.
- Apply additives (dextrose, SAPP, etc.) during transport
- Gently wash during transport

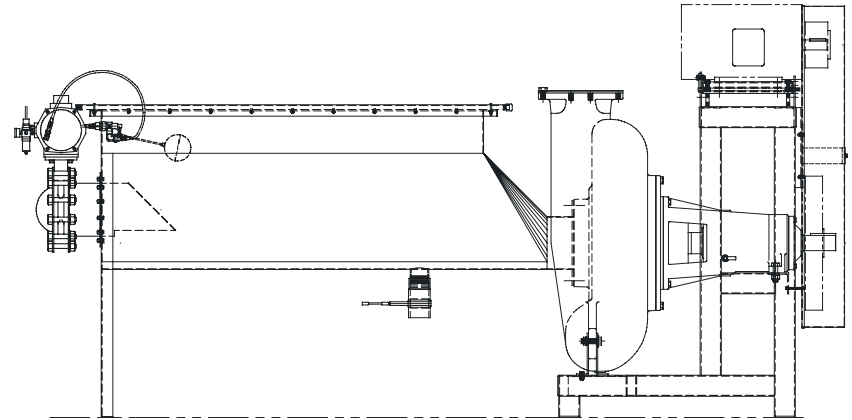
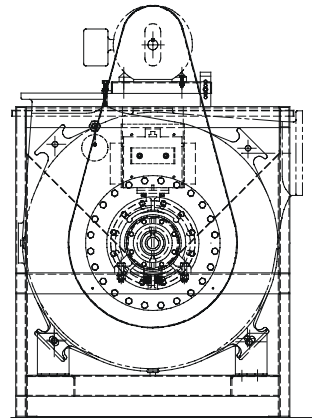
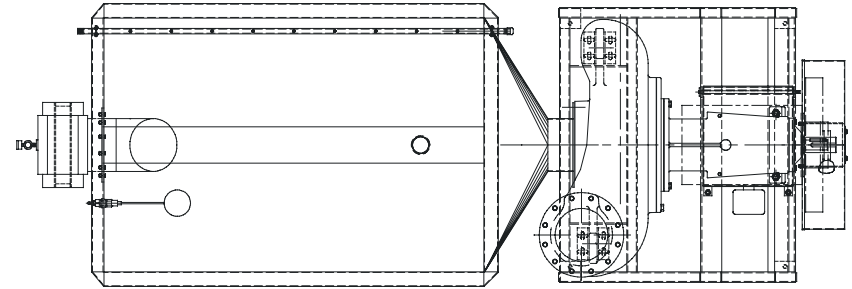
Capacity

- 1,814 kg/h to 72,575 kg/h (4,000 lb/hr to 160,000 lb/hr)

Common Product Applications

- Fresh-cut
- Fruit
- Potatoes
- Root crops
- Squash
- Vegetables

Other applications may be used on this equipment. Call Key to find out about how your product(s) may benefit from this technology or another system.



Specifications for Hydro-Flo Food Pumps

| Pump Diameter | 102 mm (4") | 152 mm (6") | 203 mm (8") |
|------------------------|-------------------|--------------------|-------------------|
| Overall length | 1883 mm (74 1/8") | 2559 mm (100 3/4") | 2845 mm (112") |
| Infeed height | 781 mm (30 3/4") | 1092 mm (43") | 1175 mm (46 1/4") |
| Length of tank opening | 610 mm (24") | 1067 mm (42") | 1219 mm (48") |
| Depth of tank | 457 mm (18") | 553 mm (21 3/4") | 610 mm (24") |
| Overall width | 711 mm (28") | 1016 mm (40") | 1200 mm (47 1/4") |
| Width of tank opening | 559 mm (22") | 864 mm (34") | 1118 mm (44") |