



Specification UltraVac Model 1005

I. General

The UltraVac Model 1005 is a heavy duty, stationary industrial vacuum loader consisting of a power module, filtration system, material collection hopper and support frame. The UltraVac Model 1005 is an ideal industrial vacuum source to power permanent in-plant piping systems.

II. Power Module

The UltraVac Model 1005 is electrically powered and features a 100 horsepower, 460 VAC, 3 phase, 50 Hz, TEFC electric motor. A NEMA 4 control panel is provided with all necessary controls including motor starters. All UltraVac units feature a positive displacement rotary lobe type vacuum producer with ductile iron impellers and high temperature seals. The Model 1005 power module also includes an air compressor, air reservoir and exhaust air silencer.

III. Material Collection Hopper

The UltraVac Model 1005 features a large 3 cu. yd. (2.29 m³) capacity main material collection hopper featuring bottom discharge. A 14" X 14" manual discharge valve is provided to discharge material from the hopper. The hopper is constructed of reinforced carbon steel and is designed to handle negative pressures over 18" Hg. The collected material enters the hopper through a port located at the rear near the top of the material collection hopper. The expansion of the air as it enters the hopper along with numerous directional changes assures that only the finest of particles get carried into the baghouse for final separation from the airstream.

IV. Filtration System

The UltraVac Model 1005 features a filtration system consisting of seventy-two (72), 6" diameter X 44" long, removable filter assemblies providing a total filtration area of 415 ft² (38.5 m²). The filters are automatically self cleaned by reverse pulse high pressure jet air blasts. Filter cleaning timing sequence is controlled by a solid state logic panel. The high pressure air is supplied by the belt driven air compressor. Since filter cleaning is a continuous operation while vacuuming, there is never a need to shut down a UltraVac unit for filter cleaning purposes.

V. Main Frame

The UltraVac Model 1005 features the power module, hopper module and filtration system conveniently mounted on a single main frame. Support legs, service platforms and access ladders are available at additional cost.

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**Specification
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(cont.)**

VI. Anticipated Performance

The Model 1005's 100 horsepower system and positive displacement rotary lobe type vacuum producer provides the following performance specifications:

Horsepower: 100 HP (75 KW)		Vacuum Rating: 15" HG (0.508 bar)			
Air Volume		Conveying Rate		Conveying Distance	
No Load	= 3000 CFM 85.0 m ³ /min.	Nominal	= 500 lb./min. 227 kg/min.	Nominal	= 300 feet 61 m.
Max. Load	= 2650 CFM 44.2 m ³ /min.	Maximum	= 1000 lb./min. 454 kg/min.	Maximum	= 500 feet 122 m.

Material handling rates and conveying distances will vary based on the bulk density and particle size of the material, as well as the skill and efficiency of operating personnel.

VII. Controls

The Model 1005 UltraVac features a complete package of instrumentation and product protection controls. Standard features include the following:

- Start and Stop pushbuttons with system "Running" pilot light
- Filter bag differential gauge and dirty filter shutdown
- Vacuum gauge and high vacuum relief valve
- Hopper full level control with automatic shutdown and "Hopper Full" pilot light

VIII. Miscellaneous

All UltraVac units include three (3) operation and maintenance manuals as standard (1 hard copy & 2 CD's). Additional manuals are available at \$125.00 each. Units are primed and painted with durable industrial enamel. Standard color is white, or your choice of any single color specified on written order. All UltraVac equipment is covered by our twelve (12) month warranty covering materials and workmanship excluding normal wear components such as filter bags and conveying hose.

IX. Additional Equipment:

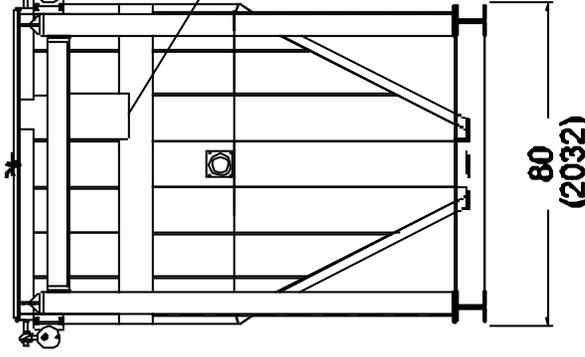
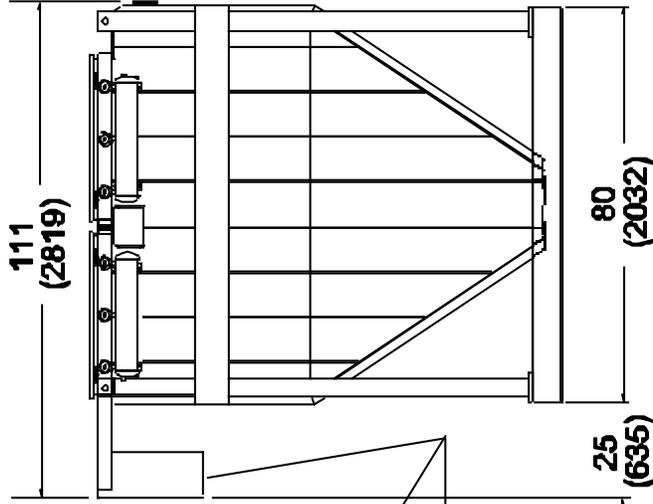
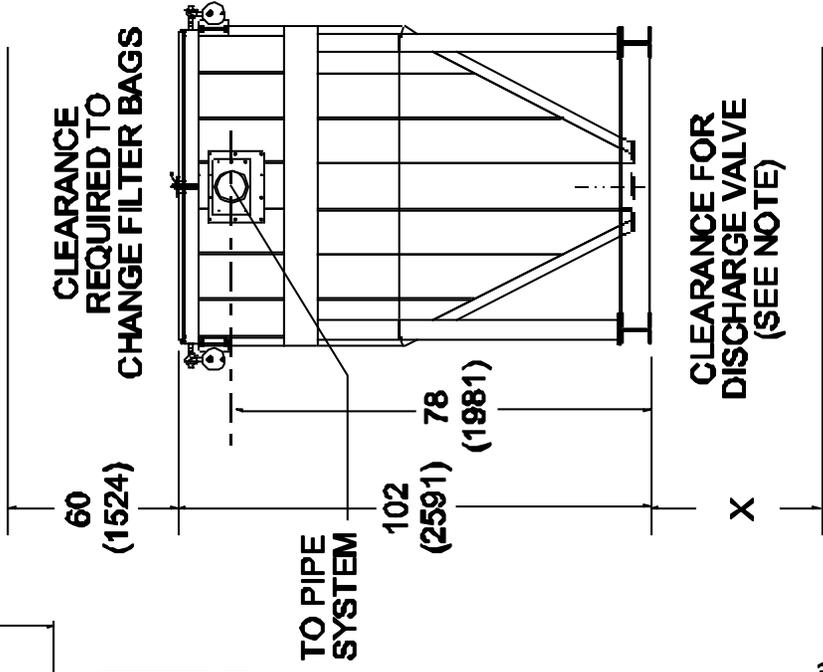
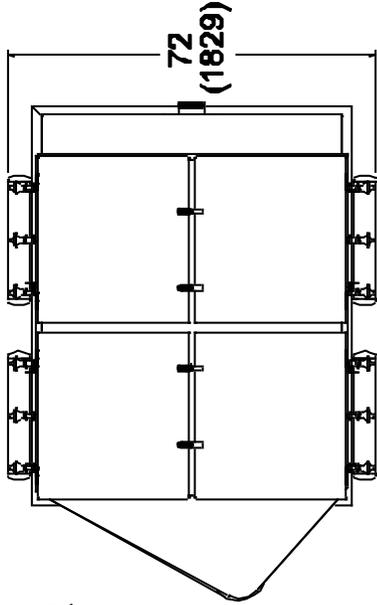
The proposed UltraVac model 1005 includes the following equipment in addition to the features listed above:

- As Listed

NOTE:

ADDITIONAL HEIGHT REQUIRED FOR DISCHARGE VALVE WILL VARY DEPENDING ON STYLE CHOSEN

APPROX. WEIGHT - 5600 LB. (2540 KG.)



DIMENSIONS ARE IN INCHES (MILLIMETERS)

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TITLE:

ULTRAVAC 5 CUBIC YARD FILTER/RECEIVER

DATE: 08/07/96

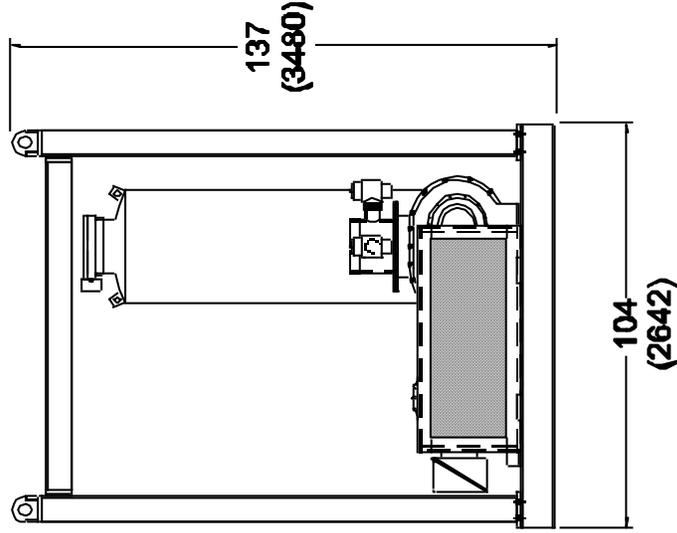
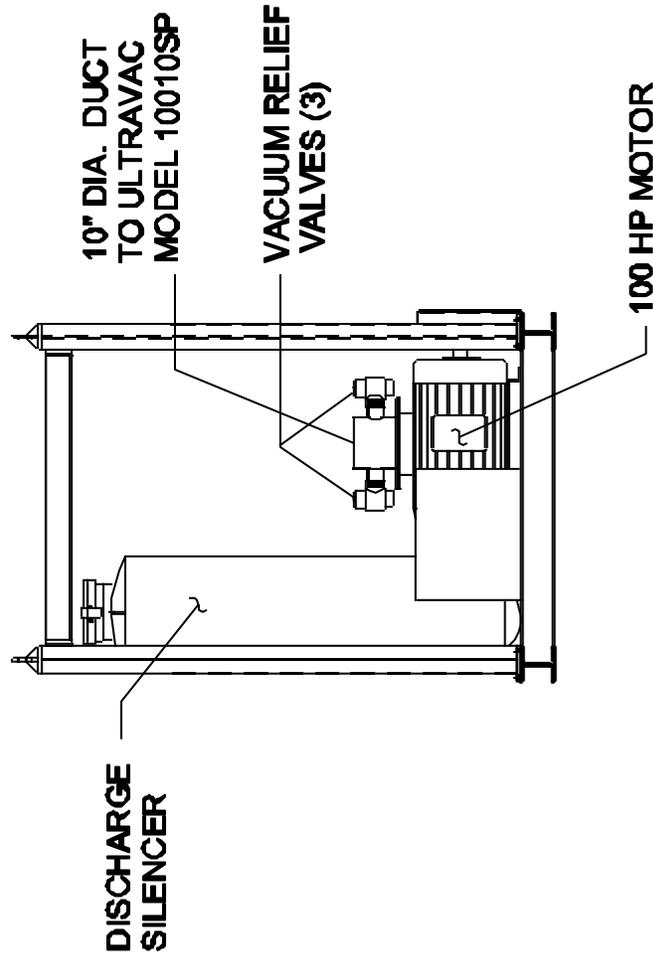
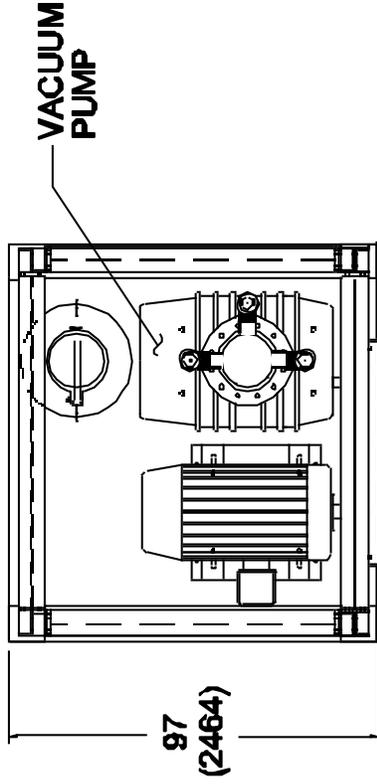
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SCALE: NONE

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**NOTE: DIMENSIONS ARE IN INCHES
(MILLIMETERS)
APPROX. WEIGHT - 7500 LB. (3401 KG.)**



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TITLE:

**ULTRAVAC 100 HP. VACUUM PRODUCER FOR
 USE WITH MODEL 1005SP ULTRAVAC**

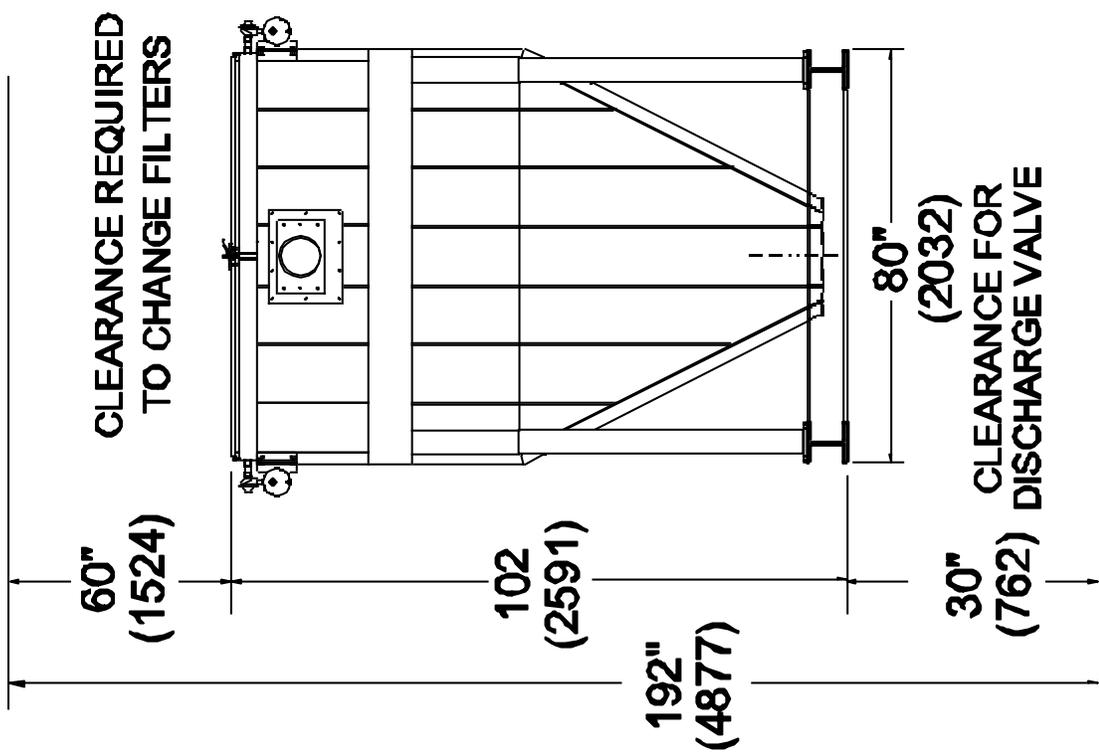
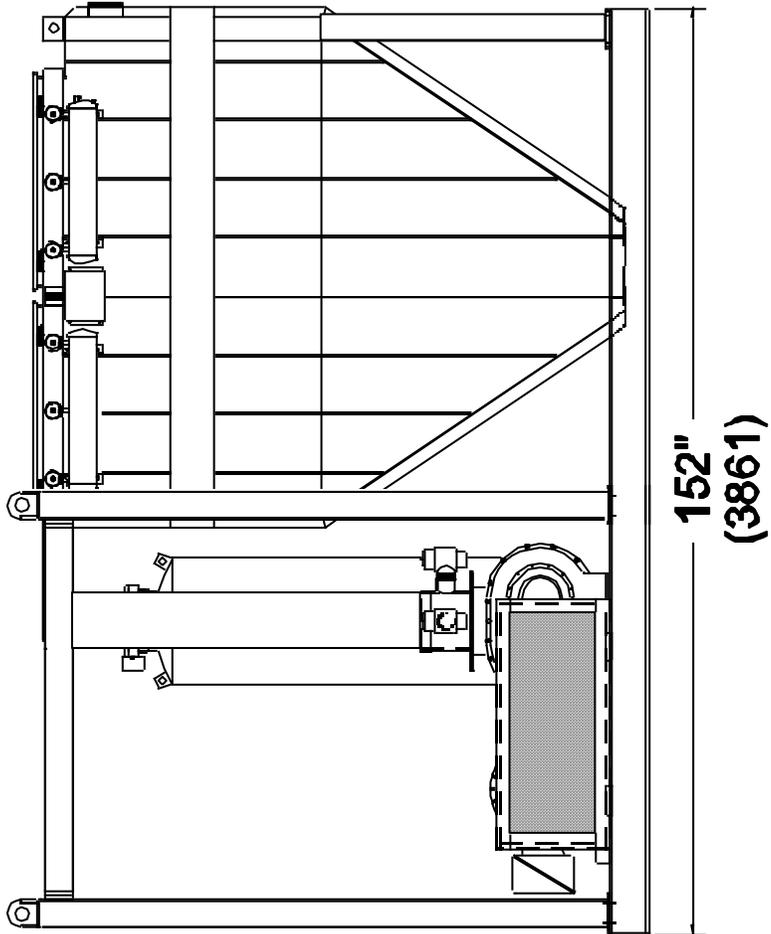
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DRAWING NUMBER: 690280-1



ultra **Vac** **Model 1005**