



**Specification  
UltraVac Model 15010  
Industrial Vacuum System**

**I. General**

The UltraVac Model 15010 is a heavy duty, stationary industrial vacuum loader consisting of a power module, filtration system, material collection hopper and support frame. It is available in either an integral one-piece model or a split Power Pack and Filter/Receiver design. The UltraVac Model 15010 is an ideal industrial vacuum source to power permanent in-plant piping systems.

**II. Power Module**

The UltraVac Model 15010 is electrically powered and features a 150 horsepower, 460VAC, 3 phase, 60 Hz, TEFC electric motor (150 horsepower diesel is also available). A NEMA 4 control panel is provided with all necessary controls including motor starters. Alternate electric classifications for motors and controls are also available. Please contact us with your specific requirements and we will be pleased to provide pricing.

All UltraVac units feature a positive displacement rotary lobe type vacuum producer with ductile iron impellers and high temperature seals. The Model 15010 power module also includes an air compressor, air reservoir and exhaust air silencer.

**III. Material Collection Hopper**

The UltraVac Model 15010 features a large 10 cu. yd. capacity main material collection hopper featuring bottom discharge. A variety of discharge valves are available. 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 air stream.

**IV. Filtration System**

The UltraVac Model 15010 features a filtration system consisting of one hundred thirty two (132) 44 inch long removable filter assemblies that 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 15010 features the power module, hopper module and filtration system conveniently mounted on a single main frame. Support legs up to 6 feet in height can be provided. Longer length legs, catwalks, access ladders etc. are also available.

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**VI. Anticipated Performance**

The Model 15010's 150 horsepower system and positive displacement rotary lobe type vacuum producer provides the following performance specifications:

<b>Horsepower:</b> 150 HP (112 KW)		<b>Vacuum Rating:</b> 15" Hg (0.508 bar)	
<b>Air Volume</b>	<b>Conveying Rate</b>	<b>Conveying Distance</b>	
No Load: 4450 CFM	Nominal: 625 lb./min. 283 kg/min.	Nominal: 400 feet 122 m.	
Max. Load: 3500 CFM	Maximum: 1250 lb./min. 566 kg/min.	Maximum: 660 feet 200 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 15010 UltraVac features the most complete package of instrumentation and product protection controls available. 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

**II. Miscellaneous**

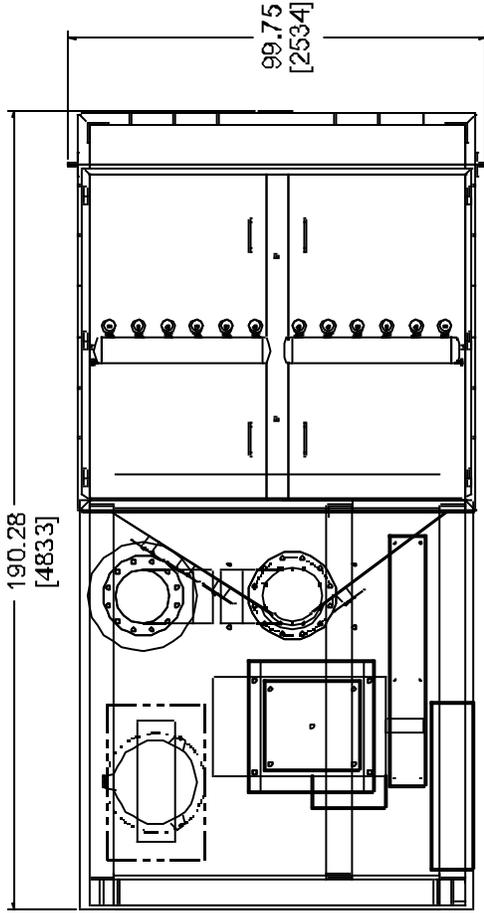
All UltraVac units include three (3) operation and maintenance manuals as standard (1 hard copy & 2 CD's). Additional manuals are available at \$125.00 each. Units are primed and painted with a durable industrial enamel. Standard color is yellow, or your choice of any single color specified on written 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.

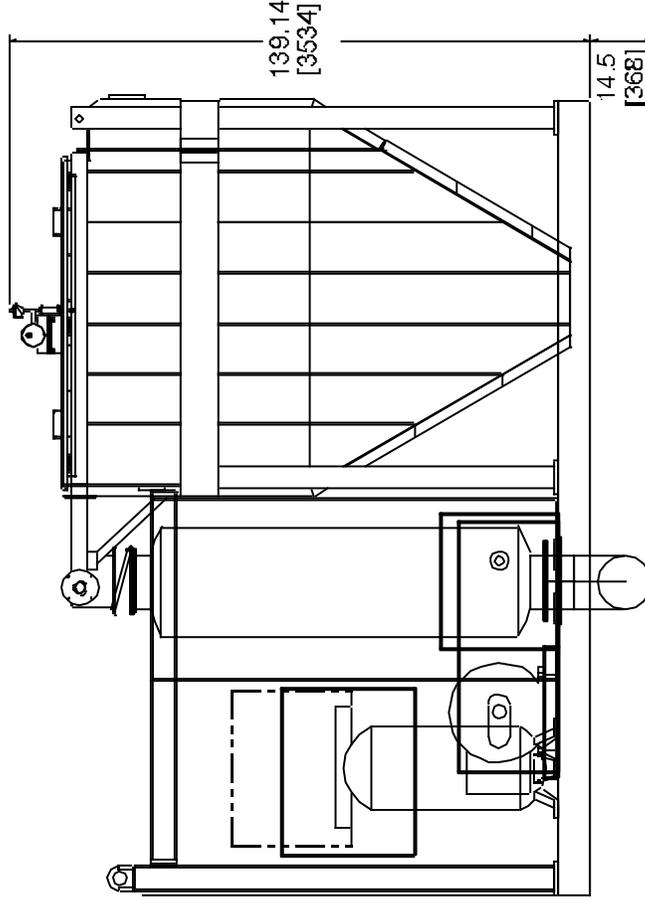
**IX. Additional Equipment Additional Equipment**

The proposed Hi-Vac® includes the following equipment in addition to the features listed above:

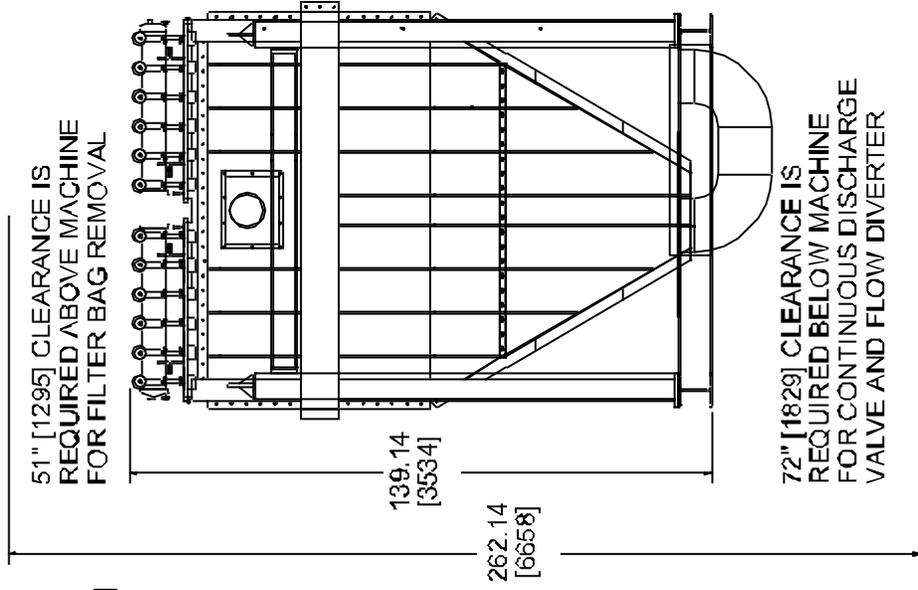
- As Listed



TOP VIEW



SIDE VIEW



INLET END VIEW

51" [1295] CLEARANCE IS  
REQUIRED ABOVE MACHINE  
FOR FILTER BAG REMOVAL

72" [1829] CLEARANCE IS  
REQUIRED BELOW MACHINE  
FOR CONTINUOUS DISCHARGE  
VALVE AND FLOW DIVERTER

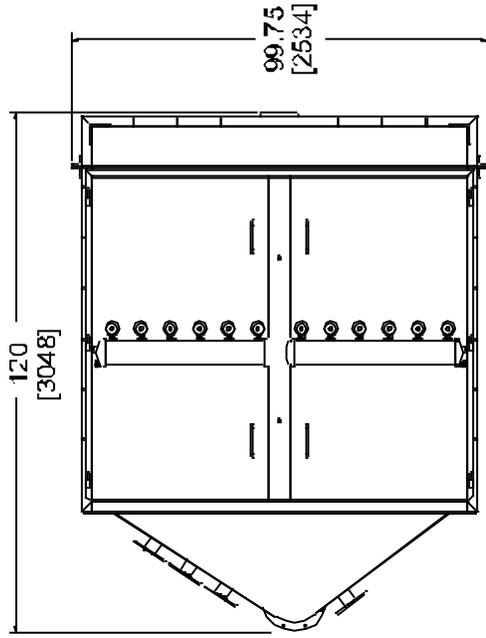
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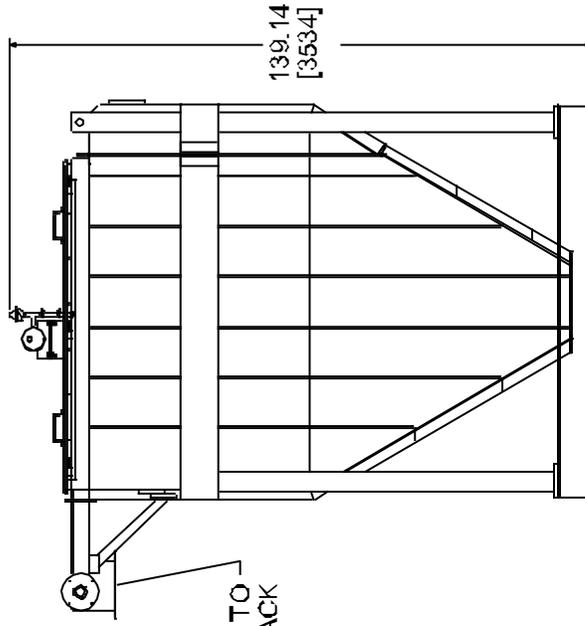
TITLE

MODEL 15010 ULTRAVAC

DATE: 14FEB02 SCALE: NONE DRAWN: CGT DRWG. NO.: 204120-1

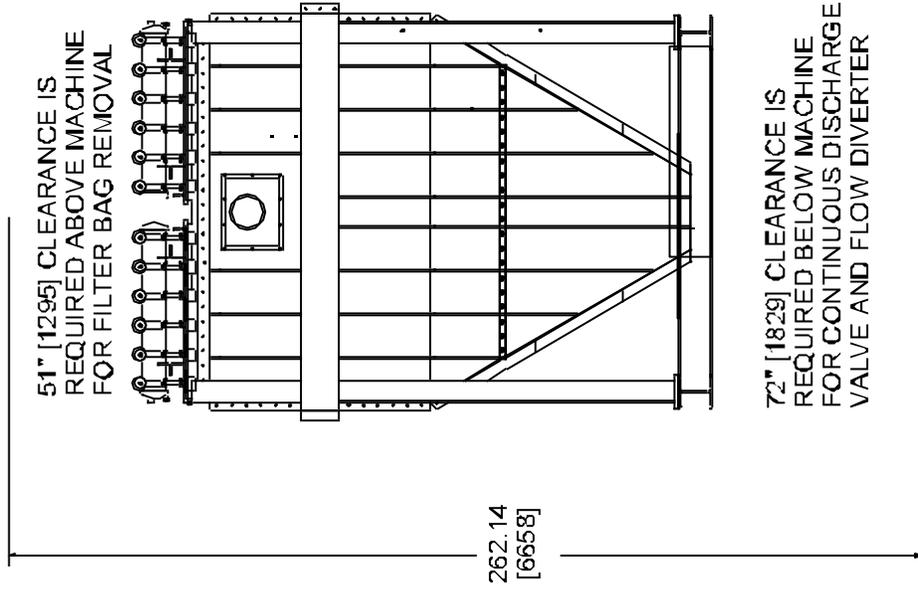


TOP VIEW



CONNECTION TO  
ULTRAVAC POWERPACK

SIDE VIEW



INLET END VIEW

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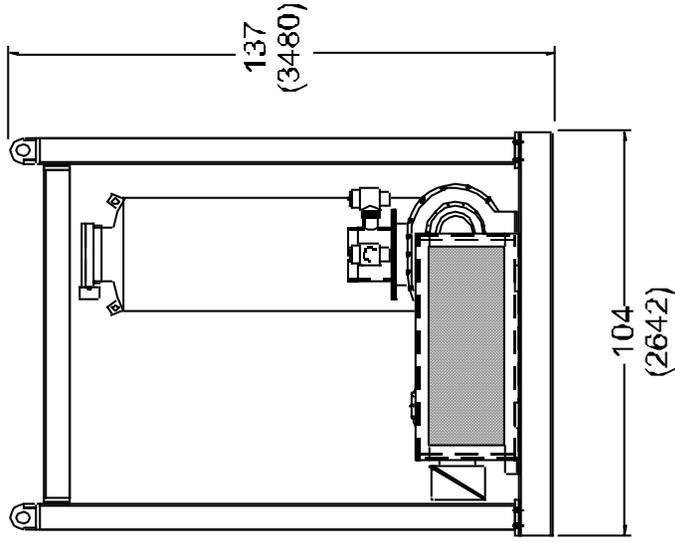
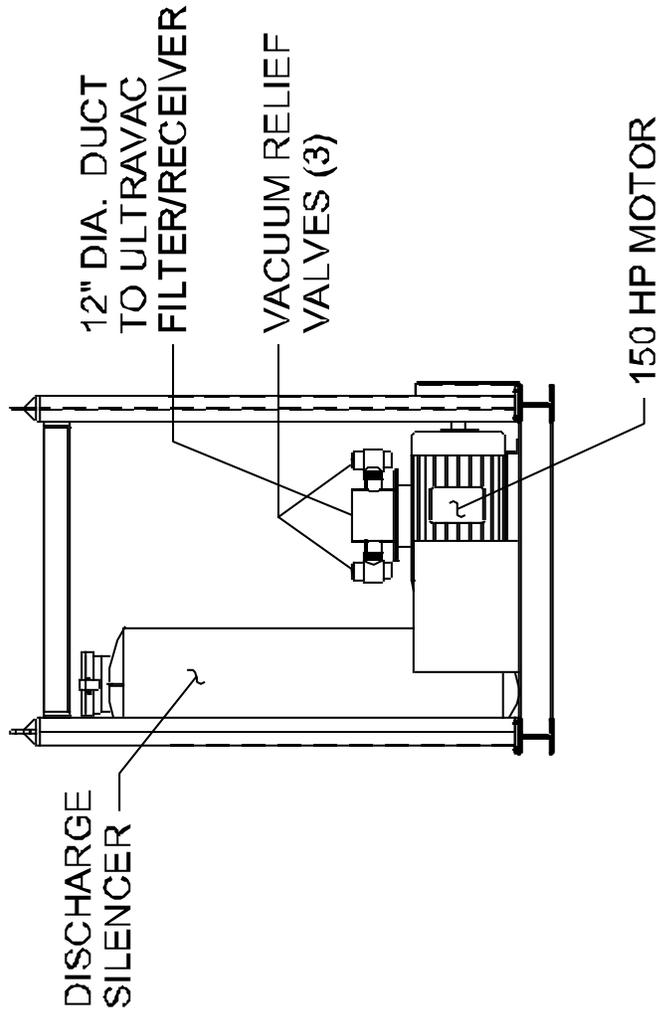
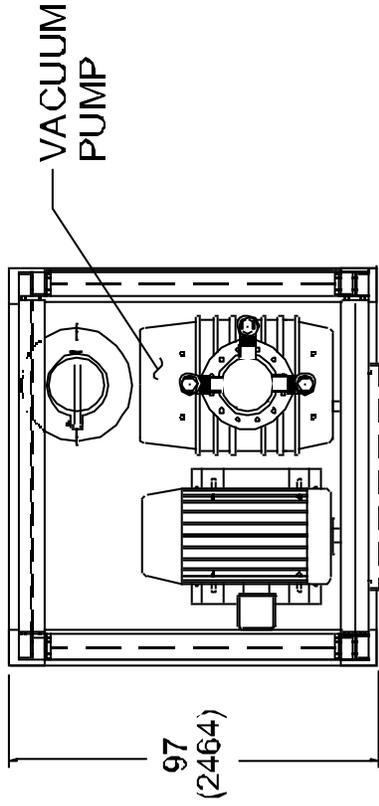
TITLE:

**ULTRAVAC 10 CUBIC YARD  
FILTER/RECEIVER**

DATE: 15FEB02 SCALE: NONE DRAWN: CGT DWG. NO.: 205120-1

**NOTE: DIMENSIONS ARE IN INCHES  
(MILLIMETERS)**

**APPROX. WEIGHT - 7500 LB. (3401 KG.)**



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**HI-VAC Corporation**

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TITLE: ULTRAVAC 150 HP VACUUM PRODUCER FOR USE WITH 10 CUBIC YARD FILTER/RECEIVER

DATE: 15FEB02 SCALE: NONE DRAWN:CGT DRWG. NO: 205120-2