



UltraVac Model 501 Industrial Vacuum System

I. General

The UltraVac Model 501 is a heavy duty, stationary industrial vacuum loader consisting of a power module, a filtration system, a material collection hopper and support frame. The UltraVac Model 501 is an ideal industrial vacuum source to power permanent in-plant piping systems.

II. Power Module

The UltraVac Model 501 is electrically powered and features a 50 HP (37 kw), 575 VAC, 3 Phase, 60 Hz, TEFC, electric motor. A NEMA 4 control panel is provided with all necessary controls and motor starters. Alternate electrical 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.

III. Material Collection Hopper

The UltraVac Model 501 features a large 1 cu. yd. (0.76 m³) capacity main material collection hopper featuring bottom discharge. The hopper is constructed of reinforced carbon steel and is designed to handle negative pressure over 18" Hg (0.609 bar). 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 gets carried into the baghouse for final separation from the airstream.

IV. Filtration System

The UltraVac Model 501 features a filtration system consisting of thirty-six (36) 44" removable filter assemblies, 207 sq. ft. (19.2 m²) of filter area, 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. 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 an UltraVac unit for filter cleaning purposes.

V. Main Frame

The UltraVac Model 501 features the power module, hopper module and filtration systems 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 501's motor and positive displacement rotary lobe type vacuum producer provide the following performance specifications:

Horsepower: 50 HP (37 kw)		Vacuum Rating: 15" HG (0.508 bar)	
Air Volume		Conveying Rate	Conveying Distance
No Load	=1225 CFM 34.7 m ³ /min	Nominal	=250 lb./min. 113 kg/min.
Max. Load	=1100 CFM 31.2 m ³ /min	Maximum	=500 lb./min. 227 kg/min.
		Nominal	=150 feet 45.7 m.
		Maximum	=350 feet 106.7 m.

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

VII. Controls

The Model 501 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

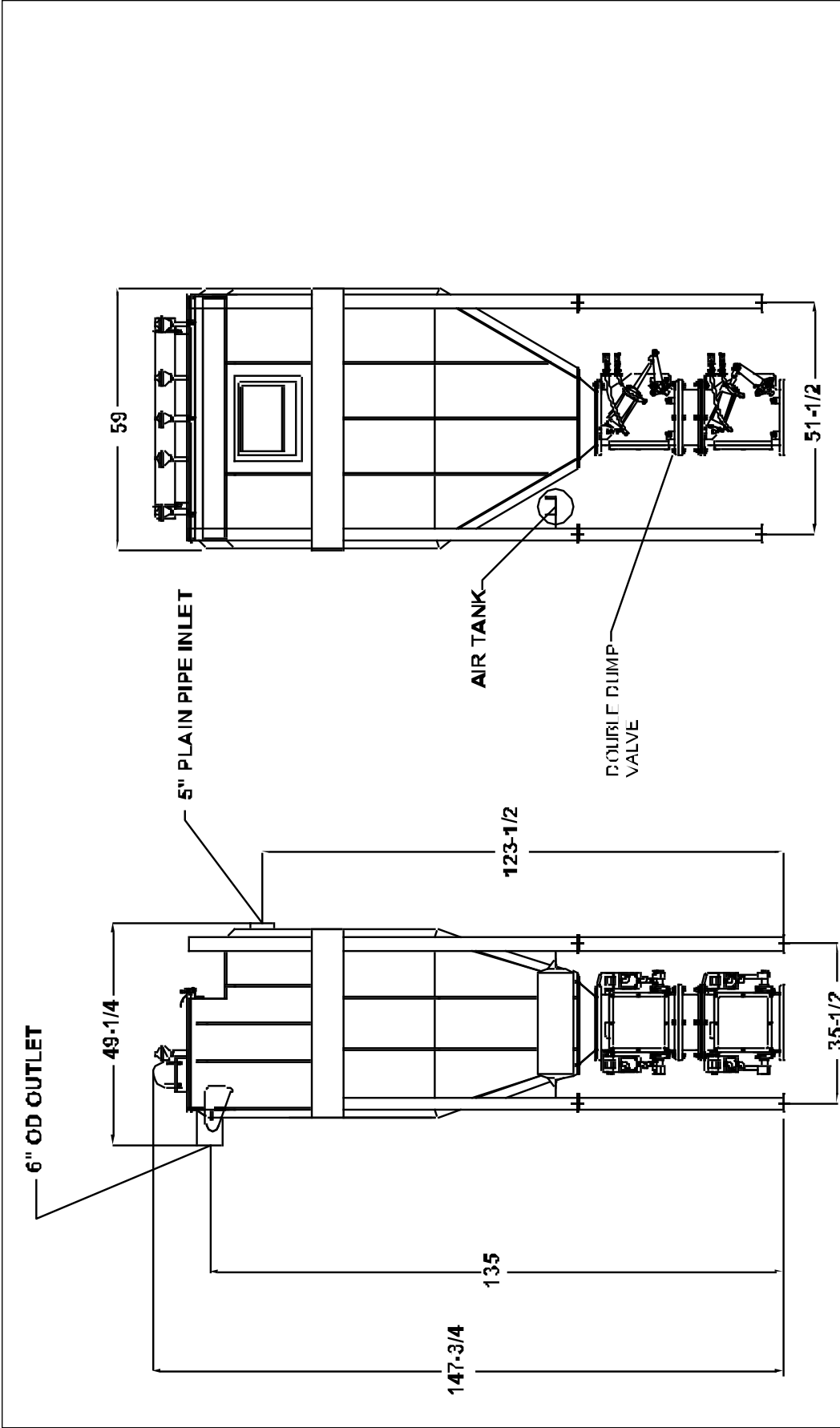
VIII. Miscellaneous

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 defects in materials and workmanship excluding normal wear components such as filters and hose.

IX. Optional Equipment

The proposed UltraVac model 501 includes the following optional equipment in addition to the features listed above:

- As Listed



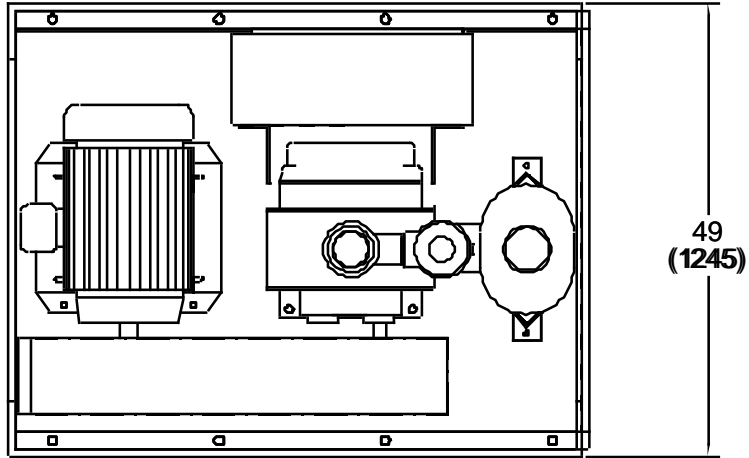
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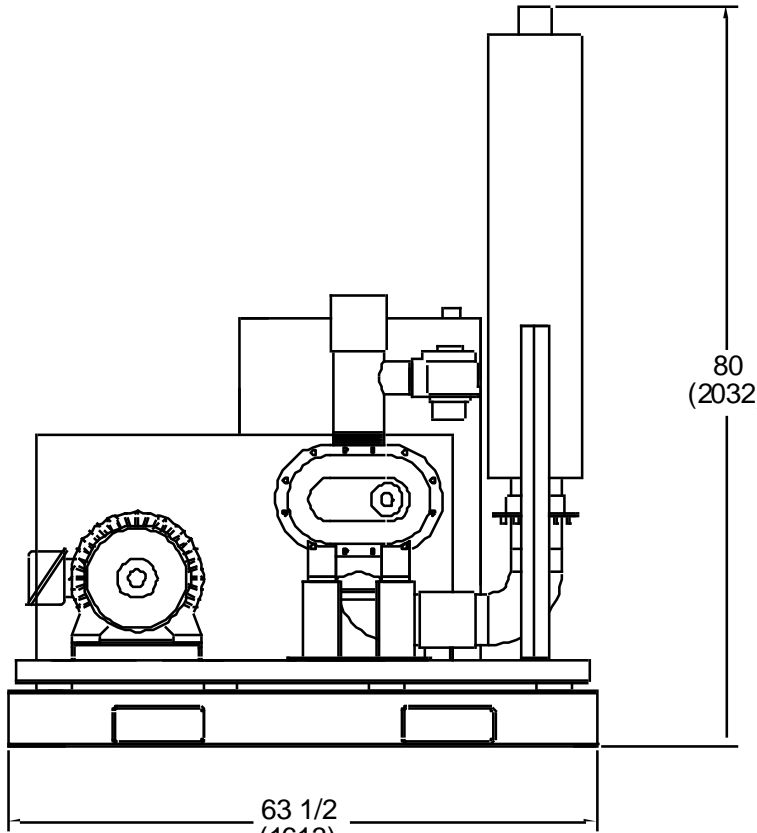
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DATE: 25/01/2003	DRAWN: GSE1	SCALE:	REV:
TITLE			305230-2
ULTRAVAC 1 CUBIC YARD FILTER/RECEIVER WITH DOUBLE DUMP DISCHARGE VALVE			REV.
JES			305230-2

APPROX. WEIGHT 5800 LB.



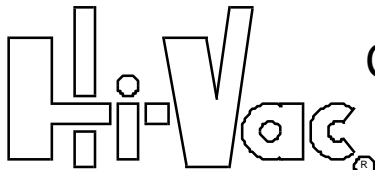
49
(1245)



80
(2032)

APPROX. WT. 4000 LB.

63 1/2
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CORPORATION

Marietta, Ohio U.S.A.

Formerly NFE INTERNATIONAL, LTD

NO.	REVISION	BY	DATE

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DATE:	24JUN02	DRAWN:	CGT	CKD.:		APPRD.:		SCALE:	NONE
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TITLE:	ULTRAVAC 50 HP. VACUUM POWER PACK		
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JOB:	DRAWING NUMBER	REV:
	204260-2	