

Ms. Jocellyn Moran
Staff II Engineer
Permitting Branch, Bureau of Sustainable Materials Management
Nevada Division of Environmental Protection
Department of Conservation and Natural Resources
901 S. Sewart Street, Suite 4001
Carson City, NV 89701

SCANNED INTO ONBASE

DATE: 8/27/2026

Re: Class 1 Permit Modification
21st Century Environmental Management of Nevada, LLC
EPA ID # NVD 980 895 338 RCRA Permit # NEVHW0033
System 01 – Catenary Grid Scrubber Enhancement

Ms. Moran,

Please accept this Class 1 Modification for the enhancement of the System 01 – Catenary Grid Scrubber. The purpose for upgrading the scrubber is to provide better control of nitrogen oxides (NOx) emissions. The June 2, 2026 revision to Air Quality Operating Permit AP4953-2235.03 approved these upgrades to the existing system.

Midwest Air Products Co, Inc. (Mapco) commenced installation on July 17 and completed on July 24, 2026. The existing catenary grid scrubber remains intact, and the changes include adding an additional column and expanding the current beds to create a series of three MW-300 Fume Scrubbers. Details for the units added are included as Attachment A.

Should any issues arise, NDEP will be notified.

Very Respectfully,



Courtney Jacobs
Permitting Compliance Manager
(253) 778-9732
Courtney.Jacobs@veolia.com



Attachment A

Technical Specifications

SCRUBBERS



- *wet scrubbers*
- *chrome (CMP) scrubbers*
- *mist eliminators (CMP)*
- *exhaust fans*
- *exhaust hoods*
- *canopy hoods*
- *ductwork*
- *installation*
- *maintenance programs*
- *custom fabrications*
- *design services*



PO Box 5319
281 Hughes Drive
Traverse City, MI 49696

Ph: 231-941-5865
Fax: 231-941-1636
mapco@midwestair.com

Mapco offers a complete line of quality built, corrosion-resistant horizontal and vertical fume scrubbers.

MAPCO FUME SCRUBBERS

Mapco fume scrubber design is based on wetted, packed bed technology to achieve removal of water soluble contaminants, soluble gas and particulate matter through Mass Transfer (gas absorption) and Impingement (mechanical separation).

- **Gas Absorption** - Noxious or otherwise undesirable gasses are absorbed into the liquid phase.
- **Impingement** - Particulate matter is removed through impingement as it is first forced through a wetted packed bed and then through a chevron blade or mesh pad filter section.

Supplied in either counter-current flow (vertical) or cross-current flow (horizontal), these rugged units can be supplied with extended packed beds or in series.

MW-100 Horizontal (cross flow)

When horizontal installation is required, the MW-100 is preferred. This compact unit is ideal for mezzanine or roof top mounting when a low profile is desired. Equipped with remote recirculation, the MW-100 is perfect for roof top mounting in cold climates.

MW-200 Fan Scrubber (counter-current flow)

The MW-200 is an economical, space saving unit equipped with built-in fan. The fan can be rotated 90° in (4) directions and eliminates the need for transitions and ductwork between the fan and scrubber. This unit is shipped in two pieces and is bolted together on site.

MW-300 Vertical (counter-current flow)

This design works well when floor space is at a premium and is especially effective when greater bed depths or multiple-stage systems are required for gas absorption. The MW-300 can be equipped with a stack fan and also works well with a pedestal base fan mounted on the roof or mezzanine.

OPERATING PRINCIPLES

Contaminant removal is accomplished by first slowing the exhaust air to a velocity of less than 500 fpm. Scrubber liquor is recirculated from the self contained sump or remote tank and sprayed into a bed of corrosion-resistant, non-clogging, packing media. Depending on the application, the wetted pack surface provides a large area for

liquid/gas contact, allowing absorption of noxious gas and/or impingement of chemical mists.

Once through the packed bed and prior to exiting the scrubber, the mist laden exhaust air must pass through a two stage gravity mist eliminator section. The first stage consists of a drop out area whereby the larger droplets fall out of the air stream. Secondly, the smaller mist particles are removed by an integral, vertically or horizontally mounted PVC chevron type mist eliminator providing four 30° directional changes in air flow. Contaminants are then carried away in the wash water via the overflow.

Contaminants that are highly soluble in water usually require less packing. Removal of contaminants which are low in solubility can be enhanced with the addition of a chemical scrubbing agent (pH or ORP system) and in some cases by installing a pre-filter at the exhaust hood or prior to the scrubber.

RECIRCULATION RATES/ WATER CONSUMPTION

Recirculation rates through Mapco fume scrubbers are expressed in terms of GPM per cross-sectional area (ft²) of the scrubbing media. Optimal recirculation rates through your fume scrubber will be determined by Mapco application engineers, and will usually depend upon the removal efficiency desired, in conjunction with the bed depth and type of packing media. Gases with low solubility typically require higher liquid-to-gas ratios for optimal scrubbing efficiency within the packed bed. Applications primarily involving mist require much lower liquid-to-gas ratios. As scrubber liquor and exhaust air collide within the vessel, some of the recirculated water will be evaporated and carried off as gaseous H₂O, especially in warm arid climates. Fresh water must be added to the scrubber sump to maintain the proper balance and liquid level. A float valve can be installed in the sump to make up for evaporation losses only. Most scrubbers are operated on a constant-overflow basis. A constant volume of fresh water is metered into the sump, and a constant effluent is produced as the sump overflows through a fitting for this specific purpose. The constant overflow is necessary to keep chemical concentration as dilute as possible.

The addition of an optional float valve, timer and actuated ball valve in conjunction with a pH control system, allows for scheduled batch blow-down of the scrubber effluent, resulting in less water consumption and lower waste treatment costs. Alternatively, the wet scrubber can be configured to blow-down a continuous low volume effluent to waste treatment, under pump pressure.

MAINTENANCE

Experience has taught us that the best engineered systems can fail if they are not easily maintainable. With this in mind we have made every effort to include as a standard, the features that too often are overlooked or supplied as options on

comparable equipment. As a result, Mapco scrubbers require the least amount of maintenance of any competitive product available.

STANDARD FEATURES

- **Corrosion-Resistant 3/8" Thick PVC Shell Construction**
- **2" X 3/4" Thick Inlet and Outlet Flanges**
- **Heavy Duty Coated Steel Channel Base**
- **Flanged Spray Headers with Unions, Easily Removable for cleaning**
- **Packing Removal and Fill Doors**
- **Proprietary Chevron Mist Eliminator Section**
- **Liquid Regulation Valves for Precision Adjustment**
- **Overflow and Drain**
- **Vertical, Sealless CPVC Pumps with Run-Dry Capability**
- **In-Line Strainer to Prevent Nozzle Plugging**
- **Easily Removable Recirculation Pump**
- **External Sump Box (self-contained only) with Quick Access Door**
- **Flow Meter for Regulation of Fresh Water Make-up**
- **Helical or Open-Orifice Spray Nozzles... non-clogging**
- **Clear PVC Inspection Doors**
- **Polypropylene Mesh Pad Mist Eliminator**

OPTIONAL FEATURES

- **pH / ORP Control System**
- **Automatic Batch Blowdown System**
- **Common Base for Scrubber and Fan**
- **Dual Mist Eliminators**
- **Magnehelic or Photohelic Gauge**
- **Inline Rotameters to indicate recirculated flow**
- **Solenoid Valve - Fresh Water Make-up**
- **Air or Liquid Flow Switch for Alarm**
- **Fume Arrestor™ Mist Pre-filter**
- **Polypropylene/FRP/SS Construction**
- **Liquid Level Controls**
- **Clear PVC Inlet Transition for Inspection**

pH Control System

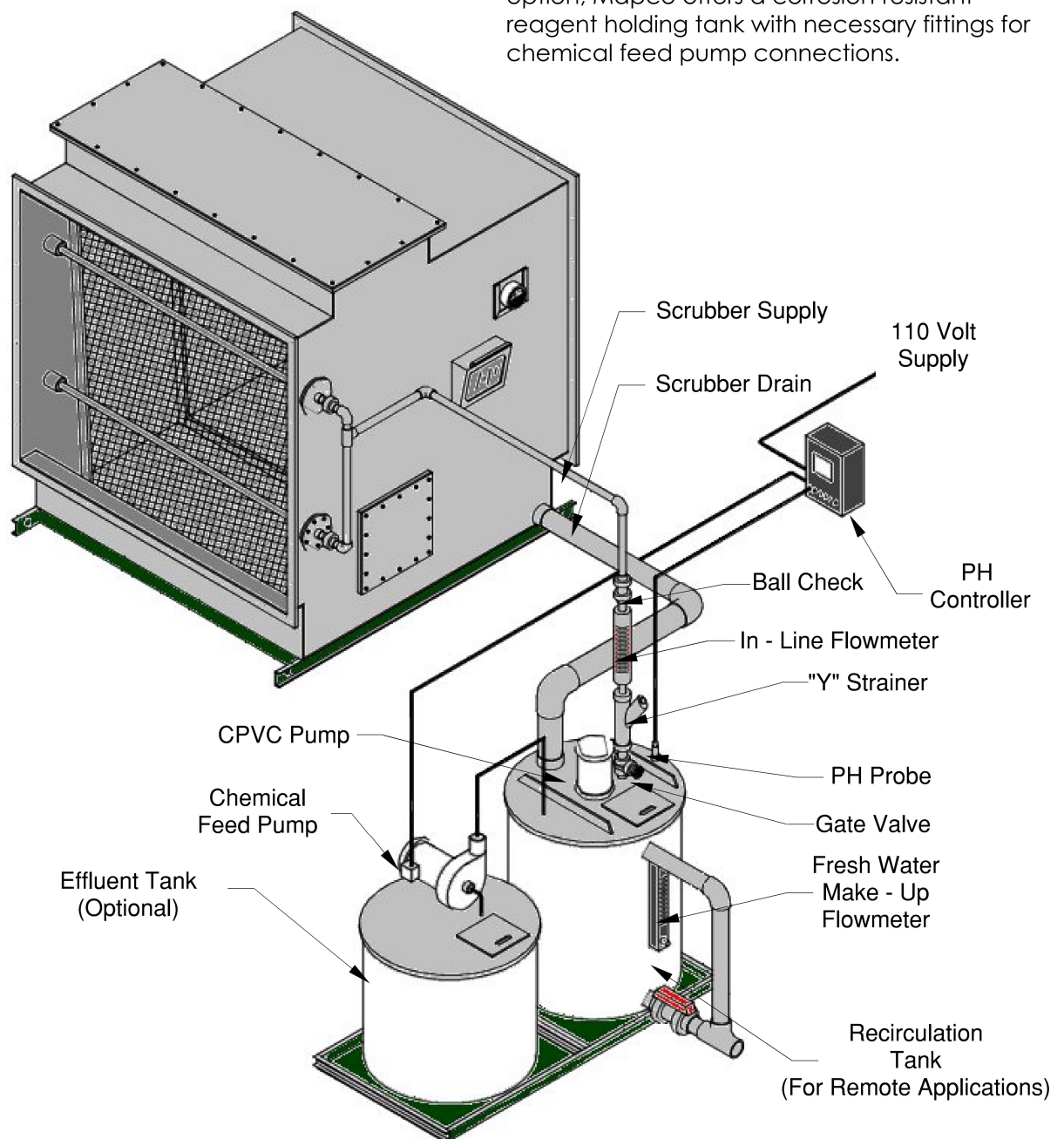
Mapco scrubbers utilize water as the main scrubbing agent. In certain cases contaminants which are low in solubility require the addition of chemical additives to:

1. Neutralize contaminants in the fume scrubber.
2. Provide precise control over effluent quality and quantity.

Mapco offers a pH control system to monitor and adjust the scrubbing liquor when necessary. This optional equipment can be incorporated into a new design as well as an existing installation.

The addition of an optional float valve, timer and actuated ball valve, in conjunction with a pH control system, allows scheduled batch blow-down of the scrubber effluent resulting in less water consumption and lower waste treatment costs. The Mapco pH control system consists of :

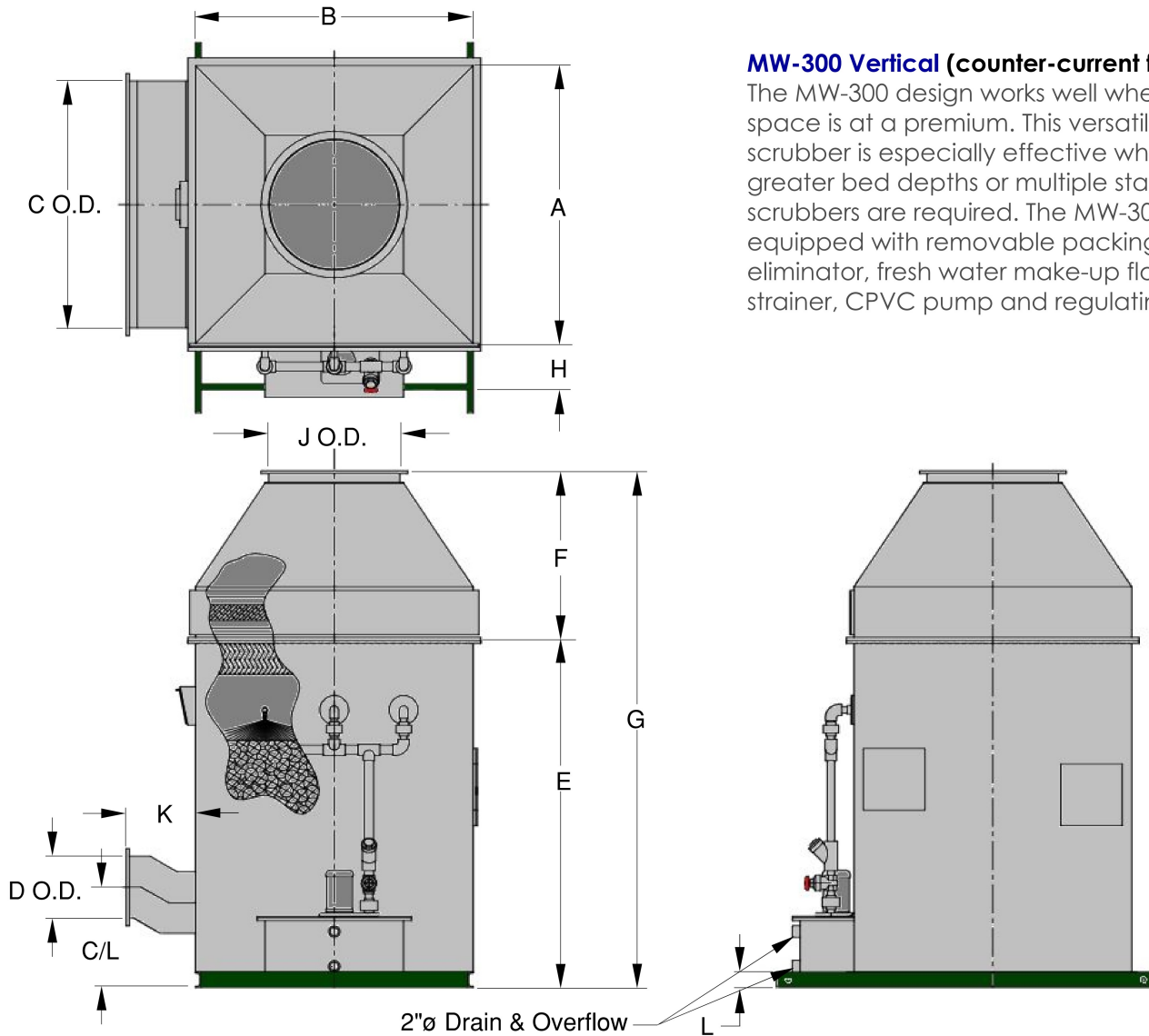
1. Weather-tight, corrosion-resistant enclosure containing a pH analyzer, terminal block and side wall mounted weather-proof electrical connections.
2. pH probe with cable
3. Chemical feed pump with check valve. As an option, Mapco offers a corrosion-resistant reagent holding tank with necessary fittings for chemical feed pump connections.



MW-300

MW-300 Vertical (counter-current flow)

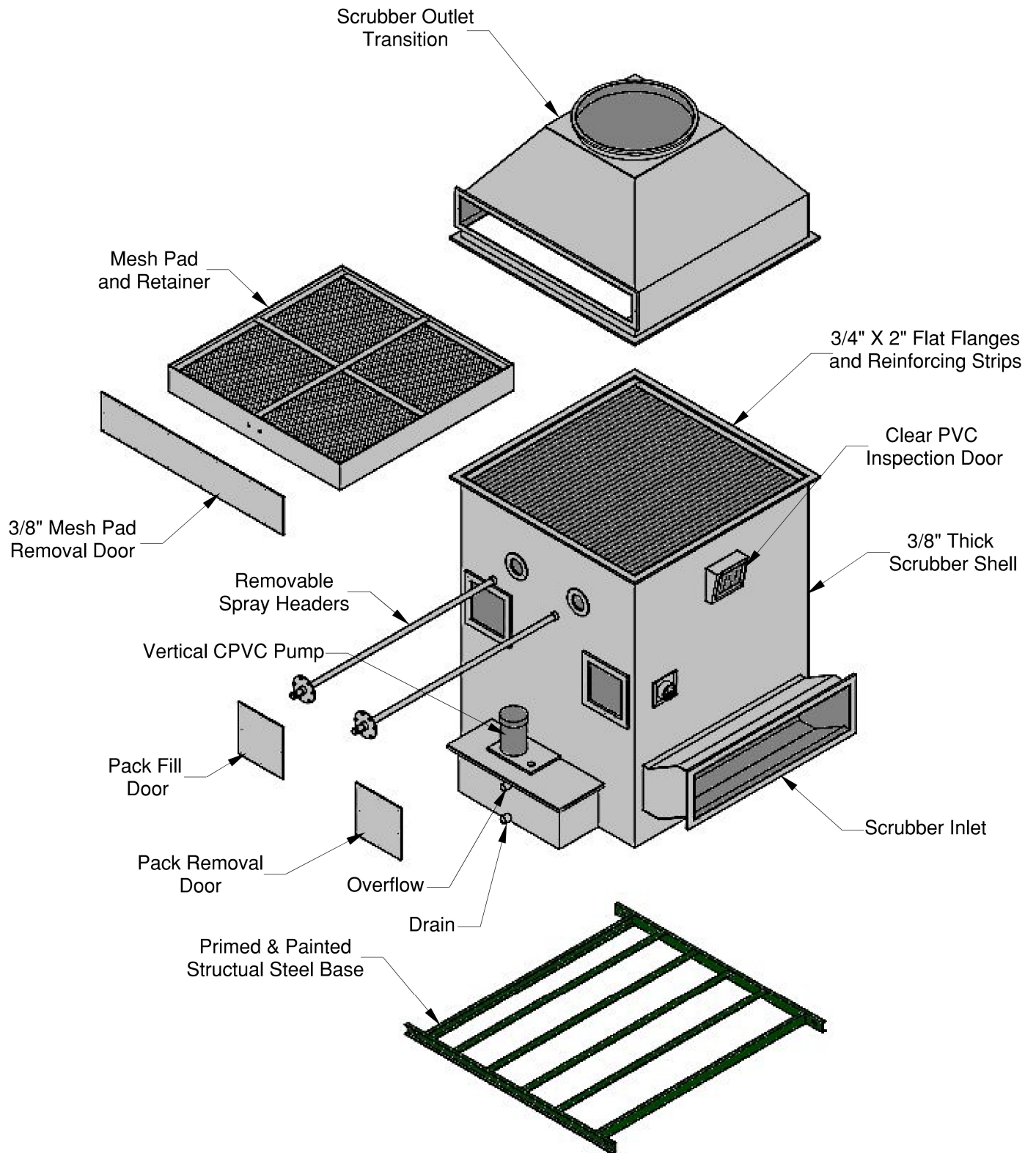
The MW-300 design works well when floor space is at a premium. This versatile scrubber is especially effective when greater bed depths or multiple stage scrubbers are required. The MW-300 is equipped with removable packing, mist eliminator, fresh water make-up flow meter, strainer, CPVC pump and regulating valve



DIMENSIONS [INCHES] Note: See page 10 for scrubber weights and transition lengths.

CFM	0.5	1	2	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	35	40	45	50	55	60
A	14	18	25	32	36	40	44	50	56	62	66	72	76	80	84	88	90	94	96	114	132	144	144	150	164
B	14	18	25	32	36	40	44	50	56	62	66	72	76	80	84	88	90	94	96	96	96	96	108	114	114
C	8	16	16	24	26	32	38	44	54	56	64	64	72	72	78	86	84	90	90	102	116	130	136	140	160
D	4		8		10			12		14		16		18		20		22						24	
E	80		84	85				89		92		94		96			98		100	102					
F	12		18				24				30				36								40		
G	92		102	103			109	113		116	122	124		126	132		134			136	138			142	
H	14												16												
J	6	8	12	14	18	20	20	24	26	30	32	34	36	38	40	42	44	46	48	48	52	56	58	60	62
K	13		14		16			18																	
L		2				3								4									6		
C.L.	20		22	23				25		27		26		27			28		29	31			32		
Pump Size	3/4				1	1-1/2			2				3				5				2-3			2-5	
Header Size	1/2	3/4			1			1-1/4		1-1/2		2			2-1/2					3				3-1/2	
Nozzle Qty	1		2	3	4	6	8	8	12		15	18	20		24	26	28	30	32	38	44	48	55	60	65
Pack Area	1.3	2.3	4.3	7.1	9	11.1	13.4	17.4	21.7	26.7	30.2	36	40.1	44.4	49	53.7	56.2	61.3	64	76	88	96	108	118	129
Remote Drain			2							3						4							6		

MW-300 PARTS



SCRUBBER WEIGHTS

Scrubber weights shown below are for scrubbers with two foot packed beds. For extended packed bed scrubbers add 4.2 lbs. per ft³ of packing. MW-200 and MW-300 scrubbers do not require additional weight for sump water. MW-100 scrubbers will require some calculation for additional weight due to extended sump. Calculate cubic feet of water based on a 10" liquid depth. Multiply ft³ of water by 62½ lbs. to find additional weight.

MW-100 HORIZONTAL					MW-300 VERTICAL				MW-200 FAN SCRUBBER			
CFM	DRY WT.	SUMP CAPACITY		OPER. WT.	DRY WT.	SUMP CAPACITY		OPER. WT.	DRY WT.	SUMP CAPACITY		OPER. WT.
		GAL.	LBS.			GAL.	LBS.			GAL.	LBS.	
500	336	44	367	702	470	8.5	71	541	636	21	175	811
1000	421	66	550	971	521	14	117	638	884	31	258	1143
2000	476	77	641	1118	623	27	225	848	909	36	300	1209
3000	554	105	875	1429	706	44	367	1072	1000	44	367	1366
4000	635	133	1108	1743	756	56	466	1222	1233	62	516	1750
5000	707	133	1108	1815	840	69	575	1414	1295	69	575	1870
6000	849	138	1150	1998	947	84	700	1647	1363	84	700	2062
7000	N/A								1552	100	833	2385
8000	954	144	1200	2154	1064	108	900	1964	1589	108	900	2489
10000	1099	172	1433	2532	1201	136	1133	2334	1831	136	1133	2965
12000	1211	188	1566	2777	1333	166	1383	2716	2059	166	1383	3442
14000	1280	188	1566	2846	1447	189	1574	3022				
16000	1389	211	1758	3146	1590	225	1874	3464				
18000	1617	222	1849	3467	1773	250	2083	3855				
20000	1716	244	2033	3749	1882	277	2307	4190				
22000	1815	266	2216	4031	2021	306	2549	4570				
24000	1939	294	2449	4388	2127	336	2799	4926				
26000	2083	316	2632	4715	2239	351	2924	5163				
28000	2206	344	2866	5072	2352	383	3190	5542				
30000	2305	366	3049	5354	2423	400	3332	5755				
35000	2577	427	3557	6134	2758	475	3957	6715				
40000	2954	488	4065	7019	3186	550	4582	7768				
45000	3226	550	4582	7808	3401	600	4998	8399				
50000	3563	611	5090	8653	3662	675	5623	9285				
55000	3835	672	5598	9433	3925	742	6181	10105				
60000	4107	733	6106	10213	4207	811	6756	10963				

MW-100 - MW-200 - MW-300 INLET/OUTLET TRANSITION LENGTHS																										
CFM	.5	1	2	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	30	35	40	45	50	55	60
MW-100	12		18		24				36										48							
MW-200	12						18				N/A															
MW-300	12						18				24				30				36			48				

Mapco Average Scrubber Removal Efficiencies

CONTAMINANT	2 Ft. Packed Bed	With pH Control	5 Ft. Packed Bed	With pH Control
Acetic Acid	NR	80-85	NR	90-95
Alkaline Cleaners (Aqueous Mist) ³	95-99	99.9	99.9	99.9
Ammonia ³	NR	90-95	NR	98-99
Anodizing (Mists)	95-97	98-99		
Aqua Regia ^{1,4}	85-90	85-92	92-98	95-98
Boric Acid	95-98	95-98	98	98
Caustic Cleaners ³ (mist)	90-99.9	90-99.9	99.9	99.9
Caustic Soda ³	90-99.9	90-99.9	99.9	99.9
Chlorine ²	NR	85-90	NR	95-98
Chromic Acid ^{3,7}	98-99	98-99	99	99
Copper Chloride ³	90-92	90-92	92	92
Cyanide Solutions ³	99-99.9	99-99.9	99.9	99.9
Ferric Chloride ³ (mist)	92-95	92-95	95	95
Ferric Nitrate ³ (mist)	98-99	98-99	99	99
Ferrous Sulfate ³	98-99	98-99	99	99
Fluosilicic Acid ³	98-99	98-99	99	99
Hydrochloric Acid ¹	85-90	90-95	95-99	98-99
Hydrofluoric Acid ^{1,2}	90-95	95-98	95-99	98-99
Hydrofluosilicic Acid ³	95-98	95-98	99	99
Hydrogen Cyanide ^{1,5}	NR	85-90	NR	95-98
Hydrogen Peroxide	85-90	90-95	95-99	95-99
Hydrogen Sulfide ^{1,5}	NR	60-72	NR	85-90
Nickel Chloride ³ (mist)	85-95	85-95	95	95
Nickel Sulfate ³ (mist)	95-99	98-99	99	99
Nitric Acid ^{1,4}	85-90	85-94	95-98	95-98
Nitric Oxide (NO) ²	*	*	*	*
Nitrogen Dioxide (NO ₂) ²	*	*	*	*
Perchloric Acid ⁴	80-85	80-85	85-90	95-98
Phosphoric Acid ³ (mist)	95-99	95-99	98-99	98-99
Potassium Dichromate ³ (mist)	95-99	95-99	99	99
Selenium Sulfide ¹	95-98	95-98	99	99
Sodium Chloride ³	95-99	95-99	99	99
Sodium Fluoride ³	95-99	95-99	99	99
Sodium Glutamate ³	95-99	95-99	99	99
Sodium Hydroxide ³ (mist)	99-99.9	99-99.9	99.9	99.9
Sulfamate ³ (mist)	98-99	98-99	99	99
Sulfur Dioxide ¹	NR	80-85	NR	90-96
Sulfuric Acid	99-99.9	99-99.9	99.9	99.9
Tin Chloride ³ (mist)	85-95	90-95	95	95
Zinc Chloride ³ (mist)	85-95	90-95	90-95	90-95
Zinc Nitrate ³ (mist)	90-99	90-99	99	99
Zinc Sulfate ³ (mist)	95-99	95-99	99	99

These efficiencies are intended as a guide only. Depending on the process, specific combinations and concentrations of fumes may result in substantially different values than depicted above. Consult your scrubber manufacturer for specific efficiencies.

1. Application of pH control results in lower water usage.
2. This application may require chemical addition, extended pack bed, once through water and high efficiency mist eliminator.
3. Depending on the process, wet scrubbing may not be necessary. Consider Mapco MW-400 horizontal mist eliminator, Mist Master in-line vertical or horizontal mist eliminator, Terminator Exhaust hood or Enforcer III.
4. Depending on the process, inlet loading and temperature, a fine fog may be produced which is not included in the stated efficiencies. The addition of a special high efficiency mist eliminator will be required to minimize fog.
5. Efficiency is improved by chemical addition (other than pH control).
6. Stated efficiency is for the combined nitric and phosphoric acid fumes. The efficiency for the NO₂ portion of the fume is not listed.
7. Enforcer III on chromic acid in excess of 99.9% to 1.0 micron, Ultramact 99.9% to 99.9995 to 0.12 microns.

NR = Not Recommended

**Highest Value
Exhaust and Pollution
Control Equipment**

**“old
school
quality,
old
school
service”**

**Corrosion Resistant PVC Duct
Corzan™ Duct**



**Turnkey
Installations**

**Corzan™
Duct**

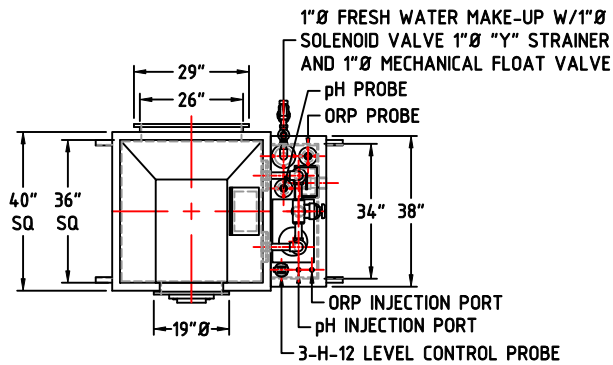


Motorized Dampers



**Terminator™
Composite Mesh Pad
Exhaust Hoods**





NOTE:

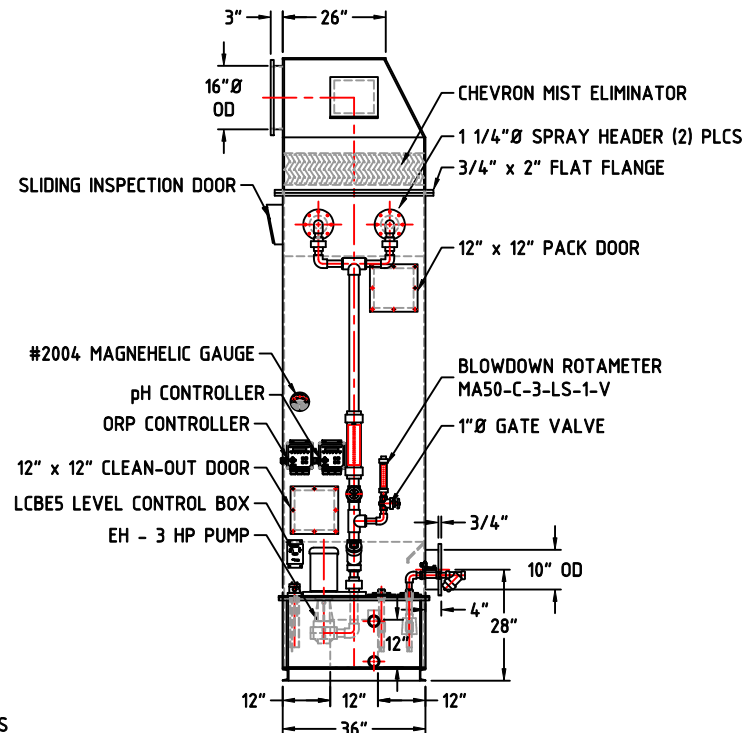
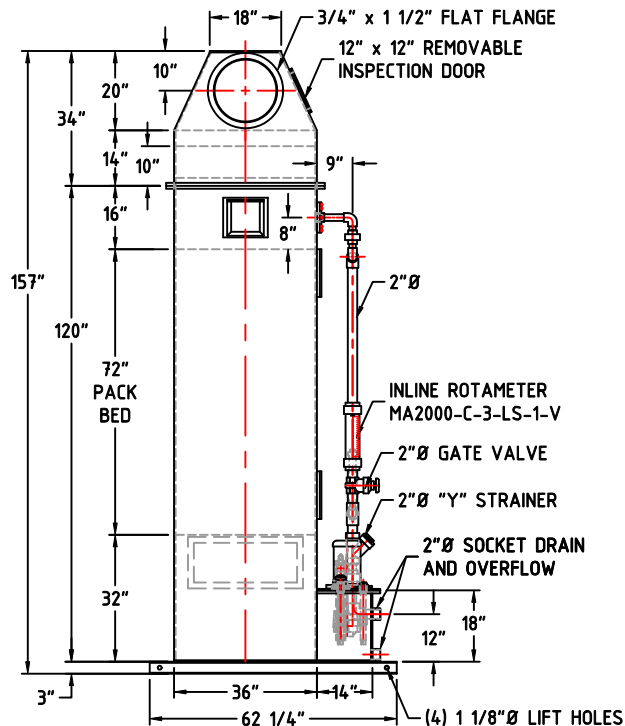
1. SCRUBBER SHELL FABRICATED FROM 3/8" TYPE I GRAY PVC.
2. 3/4" x 1 1/2" IN-OUTLET FLANGES.
3. 12" x 12" BOLT ON PACK AND C/O DOORS.
4. (2) 1 1/4"Ø REMOVABLE SPRAY HEADERS.

REVISIONS			
LET.	CHANGE	DATE	APPROVED

COLUMN #1



(2) CHEMICAL FEED PUMPS
"pH & ORP" PROVIDED LOOSE



MW-300 FUME SCRUBBER



MIDWEST AIR PRODUCTS CO., INC.
P.O. BOX 5319, TRAVERSE CITY, MI. 49699
PHONE: (231) 941-5865

NOTICE: THIS DESIGN IS THE PROPERTY OF MIDWEST AIR PRODUCTS CO., INC. AND THIS PRINT IS SUBJECT TO RETURN ON DEMAND. IT IS ISSUED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTERESTS OF THE COMPANY.
MIDWEST AIR PRODUCTS CO., INC. HAS A POLICY OF CONTINUOUS PRODUCT DEVELOPMENT AND RESERVES THE RIGHT TO CHANGE DESIGNS AND SPECIFICATIONS WITHOUT NOTICE.

MATERIAL	TYPE I GRAY PVC
CFM / ACFM	4,000 / 3,500 CFM
VELOCITY	389 FPM
STATIC PRESSURE	2.5" W.G.
PACKING MEDIA	PRO-PAK 3.5 POLYPRO
PUMP / HP	EH - 3 HP
VOLT/PH CY	230/460/3/60
FULL LOAD AMPS	4.8 @ 460 V
FLOW THRU NOZZLES	54 GPM
BLOW-DOWN	1.0 GPM
DATE	09-09-2024
SCALE	1/2"=1'0"
DWG NO.	29654C01

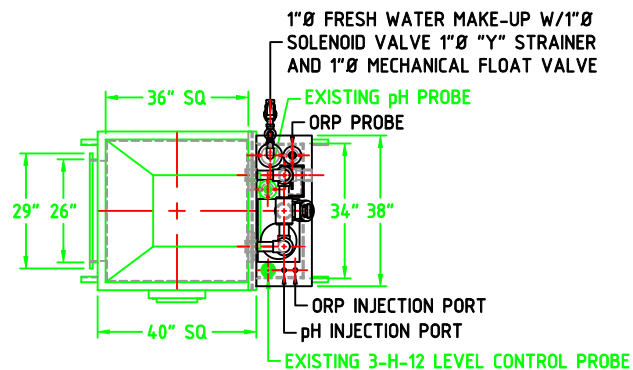
SHEET 1 of 4.

CHECKED BY: JSC

DRAWN BY: JSC

CUSTOMER: CLEAN EARTH TECHNOLOGIES

JOB NO: 29654



NOTE:

1. SCRUBBER SHELL FABRICATED FROM 3/8" TYPE I GRAY PVC.
2. 3/4" x 1 1/2" INLET & OUTLET FLANGES.
3. 12" x 12" PACK AND CLEANOUT DOORS.
4. (2) 2"Ø REMOVABLE SPRAY HEADERS.
5. EXISTING SCRUBBER REFERENCE JOB #21145C01.

REVISIONS			
LET.	CHANGE	DATE	APPROVED

COLUMN #2



CHEMICAL FEED PUMP
"ORP" PROVIDED LOOSE



CHEMICAL FEED PUMP
"pH" PROVIDED LOOSE

MW-300 FUME SCRUBBER



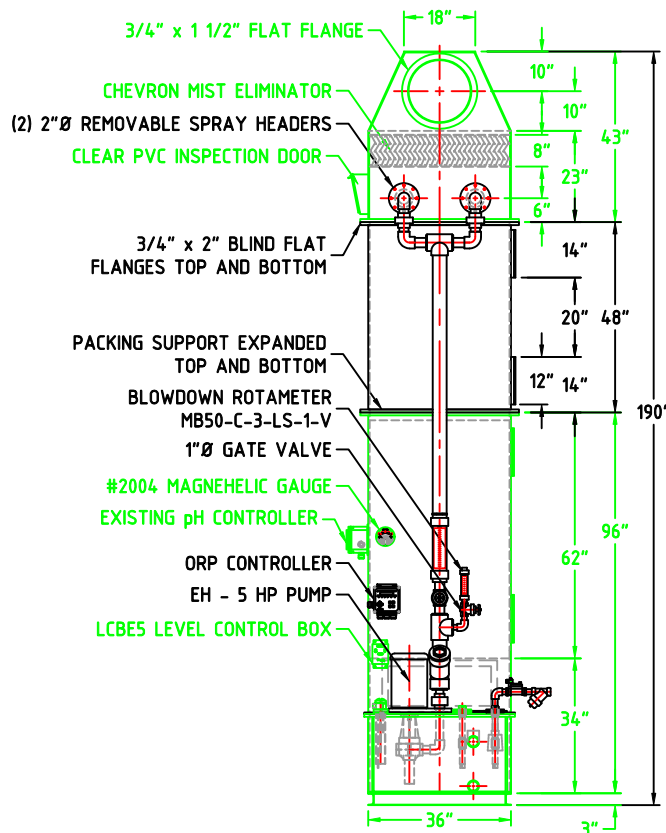
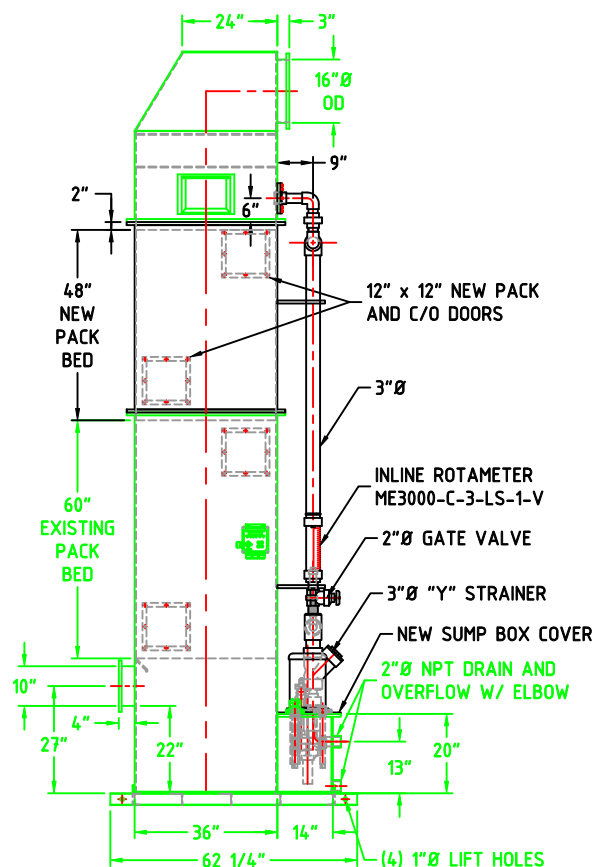
MIDWEST AIR PRODUCTS CO., INC.
P.O. BOX 5319, TRAVERSE CITY, MI. 49699
PHONE: (231) 941-5665

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CFM / ACFM	4,000 / 3,500 CFM
VELOCITY	389 FPM
STATIC PRESSURE	2.5" W.G.
PACKING MEDIA	PRO-PAK 3.5 POLYPRO
PUMP / HP	EH - 5 HP
VOLT/PH CY	230/460/3/60
FULL LOAD AMPS	7.6 @ 460 V
FLOW THRU NOZZLES	70 - 90 GPM
BLOW-DOWN	1.0 GPM
DATE	09-09-2024
SCALE	3/8"=1'0"
DWG NO.	29654C02

SHEET 2 of 3

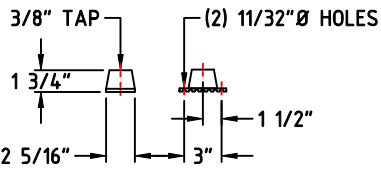


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CUSTOMER: CLEAN EARTH TECHNOLOGIES

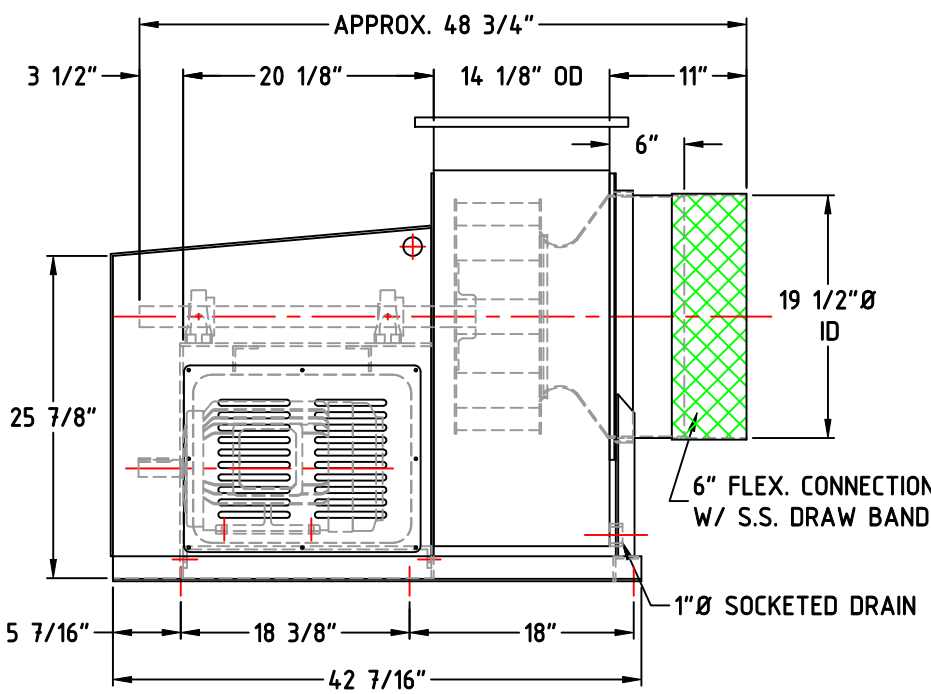
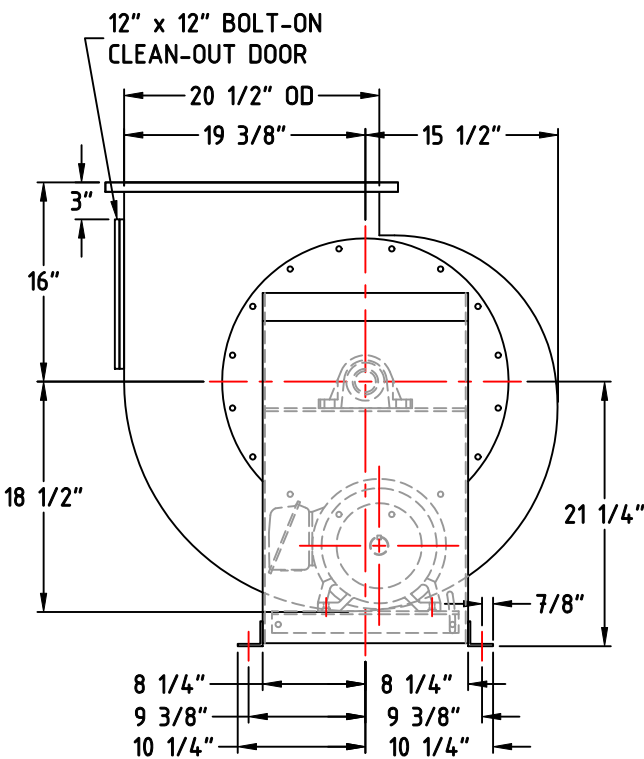
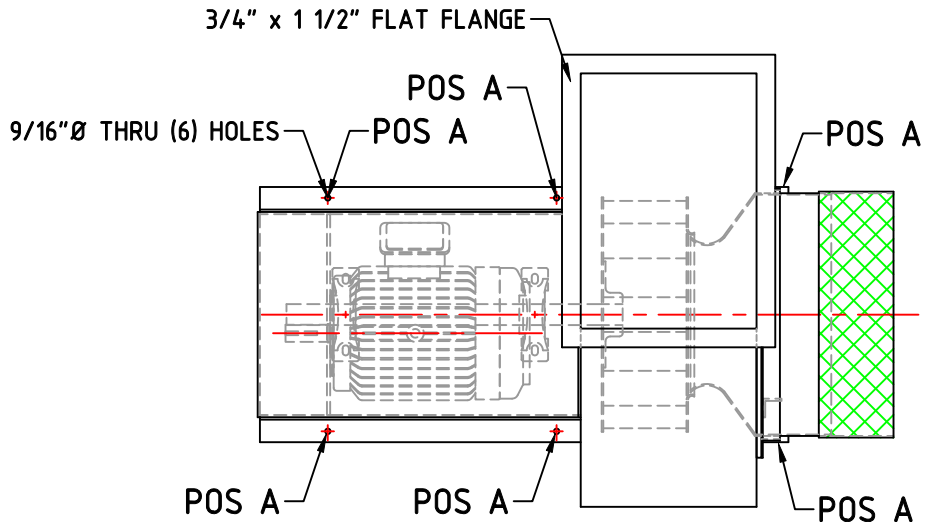
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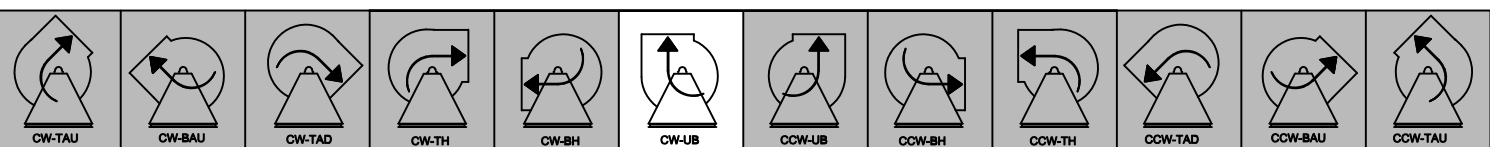
D44

ISOLATOR POSITIONS	
POS.	DESCRIPTION
A	(6) D44 - 5A BLUE
B	

MOTOR WEIGHT = 219 lbs
FAN WEIGHT (LESS MOTOR) = 347 lbs
TOTAL WEIGHT = 566 lbs



FAN DISCHARGES - VIEWED FROM DRIVE SIDE



GP-18 FAN



MIDWEST AIR PRODUCTS CO., INC.
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ACFM	3,500 CFM
STATIC PRESSURE	8.5" W.G.
OUTLET VELOCITY	1,823 FPM
WHEEL RPM	2,566 RPM
BHP	8.25 BHP
MOTOR HP/RPM	10 HP 1,800 RPM
VOLT/PH/CY	230/460/3/60
MOTOR FRAME	215 T
FULL LOAD AMPS	14 @ 460 V
WHEEL CLASS	II
WHEEL MATERIAL	COATED STEEL
ARR/ROT/DIS	10/CW/UB
BEARINGS	1 11/16"Ø
WHEEL SHEAVE	
WHEEL BUSHING	
MOTOR SHEAVE	
MOTOR BUSHING	
VARIABLE DRIVE	N/A
BELT QUANTITY	
BELT SIZE	
SHAFT / SHAFT Ø	
HOUSING MATERIAL	TYPE II GRAY PVC
DATE	09-09-2024
SCALE	3/4"=1'0"
DWG NO.	29654C04

SHEET 4 of 4

ACCESSORIES

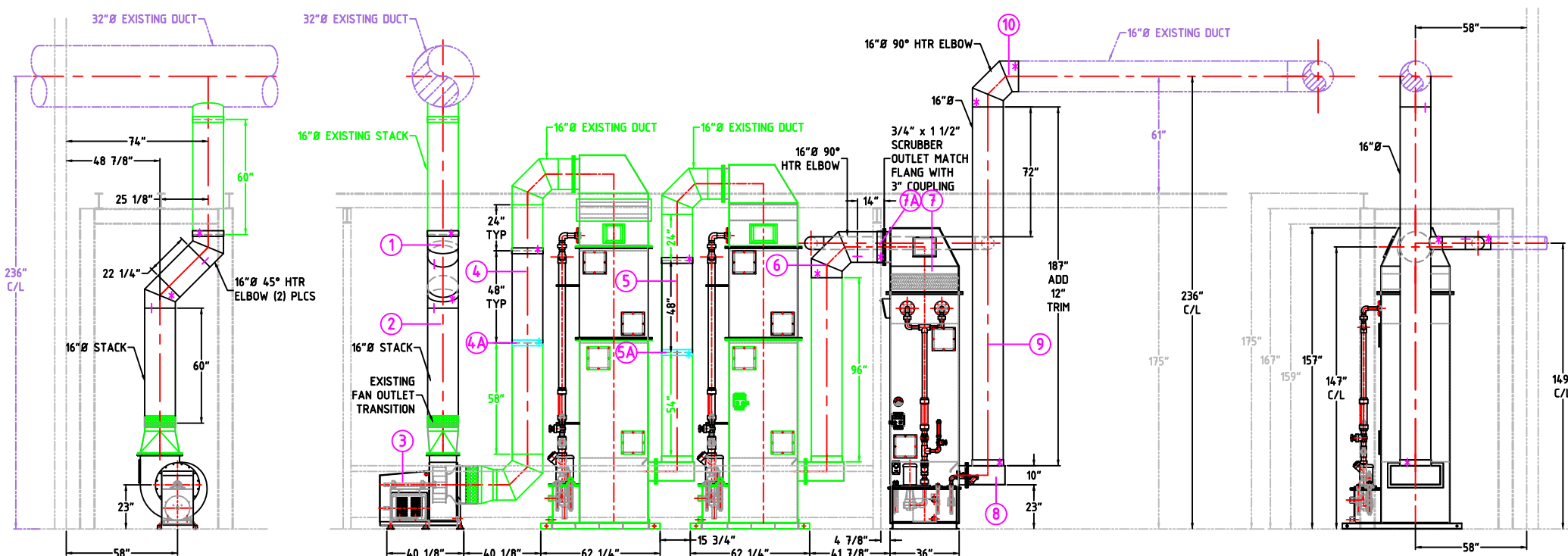
CHECKED BY : JSC

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CUSTOMER : CLEAN EARTH TECHNOLOGIES

JOB NO. 29654

1. FABRICATED FROM 3/16", 1/4" TYPE I AND TYPE II GRAY PVC.
2. THIS SYMBOL (—) INDICATES A FACTORY BUTT JOINT.
3. THIS SYMBOL (*) INDICATES A COUPLING.
4. THIS SYMBOL (✱) INDICATES A LOOSE COUPLING.



REVISIONS				 HARRIS HARRIS ENGINEERING AND CONSULTING, INC. 10000 BUCKLEBOURNE DRIVE, SUITE 100 FARMERS BRANCH, TEXAS 75440	CUSTOMER INFORMATION				DUCT DETAIL	
REV	DATE	BY	DESCRIPTION		COMPONENT	DATE	BY	DESCRIPTION	REV	DATE
				CLEAN EARTH TECHNOLOGIES	10/14/2024	9/5/2024	02-08-2024			
				CLEAN EARTH TECHNOLOGIES			02-08-2024			
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