

TRION[®]

Indoor Air Quality



Installation
Operation
Maintenance
Parts
Manual

READ AND SAVE THESE INSTRUCTIONS

Air Boss[®] Model 38 Series
Industrial Mist Precipitator

INDUSTRIAL MIST PRECIPITATOR TYPE IMP AIR BOSS® MODEL 38 SERIES

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I. PRINCIPLE OF OPERATION & GENERAL DESCRIPTION

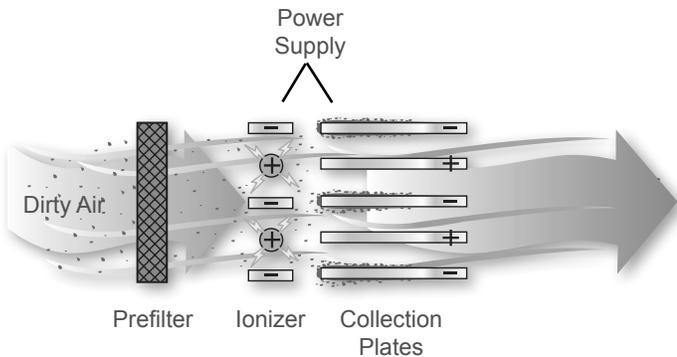
The TRION Industrial Precipitator is a two-stage, dual voltage, electronic air cleaner designed to remove particulate matter from gas.

In the first stage of operation, the particles to be collected pass through an ionizer where they are electrically charged, by a corona discharge, regardless of their size. In the second stage of operation, these charged particles pass into a collector where they are electrically attracted and collected.

The ionizer consists of electrically charged, 24 Ga. stainless steel spiked blades supported between grounded electrodes. The collector consists of a series of parallel plates arranged so that each alternate plate is electrically grounded. The charged plates are of the same polarity as the ionizing bladed and charged particles so that they repel, while grounded plates, being of opposite polarity, attract.

Three distinct functional components comprise the complete cleaner:

1. An ionizer to ionize the particulate matter in the gas.
2. A collector to collect the ionized particles.
3. A power supply to furnish the high voltage direct current required by the ionizer and collector.



Usually, this particular model series is applied to collect particulate matter in the form of mist. When collected, the particles coalesce into liquid droplets of adequate weight causing them to roll off the vertically positioned collector plates where they drain away to a predesignated location.

The ionizing and collecting sections are primarily constructed of aluminum, can be easily handled, and slide into the cabinet like drawers. A perforated steel baffle, located on the discharge side of the collector section, provides protection especially on units installed with an open discharge. The baffle also slides into the cabinet like a drawer. All three of these components are accessible through a single, side mounted, access panel.

Internally, the following materials are exposed and subjected to the gas flow through the cabinet:

- Aluminum
- Stainless Steel
- Mild Steel
- Silicone Rubber
- Nylon
- Glass Fiber Reinforced Polyester

The steel cabinet contains two pre-drilled mounting bars. Depending on the specifications, the cabinet is provided with pipe flanges, both on the inlet and the outlet for “in-line” installation or with a pipe flange on the inlet and an open outlet for free discharge installation. The inlet flange contains a flame arrestor which serves as a strainer as well as protection against any possible flaming caused by arc over in the collector. The flame arrestor is required on all applications using the Model 38. Appropriate location placement for the piping/threaded filter type must be included for system protection. This arrestor must be ordered separately.

The power supply is contained on the unit access panel in a weatherproof enclosure. It converts the alternating current input into the high voltage direct current necessary to energize the ionizing and collecting sections. Supply line power is connected to the unit in a weatherproof junction box (IP-54) and is delivered to the transformer primary through an oil proof cable connected to the enclosure through a quick connect fitting. In addition to the necessary high voltage components, the secondary contains a pilot light to indicate proper operating voltages. For 220-240 VAC units, a 1.2 Amp fuse is installed for added protection in the terminal block in the field wiring junction box. The TRION part number for the 5 mm x 20 mm fuse is 151678-001.

II. INSTALLATION

A. UNPACK

Normally, the shipment is packaged in one container including the entire unit, completely assembled and with instructions. Any shipping damage noted upon receipt should be immediately referred directly to the carrier and a claim filed. When receipt has been cleared, all crating and blocking used in shipment should be carefully removed.

B. SELECT MOUNTING LOCATION

Consideration must be given to three main points when selecting the mounting location.

i. Temperature

The temperature of the gas flow through the precipitator must not exceed +160 degrees F and also be low enough so that all vapors and/or mists have fully condensed into particulate matter prior to entering the unit. The purpose may be defeated if warm materials pass through the unit in a gaseous state, then condense into mist down stream from the collector element. Adequate duct runs between the contaminate and the precipitator, or a chill means, must be provided to lower the gas temperature to a satisfactory point. The minimum temperature to which the unit should be exposed is +20 degrees F.

ii. Positioning

Although the unit will operate in any position, it is primarily designed for vertical upflow. The important factor to keep in mind when positioning is the adequate drainage of collected materials and with the unit in the vertical upflow position, this feature is best facilitated.

iii. Service Access:

Adequate space should be provided in front of the access panel for ease in access panel and internal component removal.

C. INSTALLATION OF PRECIPITATOR

1. Disconnect primary cable from power pack.
2. Remove access panel hardware and panel. Place in safe location being careful not to deform the high voltage spring contacts in the under side.
3. Remove flame arrestor, ionizer, collector and outlet baffle and place them aside with access panel if flange type filter unit.
4. The internal surfaces of the cabinet are treated with a light-weight oil to protect the unpainted metal from rust and corrosion prior to packing for shipment. The preserving oil should be thoroughly flushed away with an adequate solvent prior to mounting.

- a) Refer to Drawings for mounting bolt hole dimensions.
 - b) Be sure flame arrestor is properly installed in inlet flange before connecting the mating flange of the adjoining duct run.
 - c) If a threaded/pipe type filter, install arrestor in inlet piping where a flange connection exists to install/access the inlet ducting.
5. Thoroughly clean all installation dirt from the cabinet, then reinstall ionizer, collector and outlet baffle.
 6. Reinstall and secure access panel.

D. WIRING

Connect alternating voltage as specified through a service switch, to the connections provided in the junction box located on the side of the unit. Refer to the electrical parts list and schematic.

WARNING

THIS APPLIANCE MUST BE EARTHED.

WARNING

THIS UNIT IS INTENDED TO BE PERMANENTLY CONNECTED TO FIXED WIRING. IT SHALL BE PROVIDED WITH A MEANS OF DISCONNECTION FROM THE SUPPLY HAVING A CONTACT SEPARATION OF AT LEAST 3 MM IN ALL POLES. THE MEANS OF CONNECTION IS NOT FURNISHED WITH THE UNIT.

III. OPERATION

Energize the unit. The pilot light should glow, indicating the ionizer and collector are correctly powered. Arcing and cracking accompanied by a flickering of the pilot light may be noted when the unit is first energized. If it occurs, it is probably due to some small amount of foreign material in the system or collector and should quickly subside. If the pilot light is dim, or does not glow, when the unit is energized or prolonged, arcing occurs, refer to Troubleshooting, page 5.

IV. MAINTENANCE

NOTE: EXERCISE THE NORMAL PRECAUTIONS WHEN WORKING WITH HIGH VOLTAGE.

WARNING

HIGH VOLTAGE IS PRESENT INSIDE CABINET. DO NOT DEFEAT COVER INTERLOCK ARRANGEMENT. ALWAYS DISCONNECT FROM SUPPLY AND WAIT ONE MINUTE BEFORE PERFORMING SERVICE WITHIN THE CABINET.

The precipitator, when applied to liquid particulate matter, is self-cleaning to a degree. The continual run-off of collected material provides a cleaning action. Periodically, however, the components should be inspected and cleaned.

Depending on the type and amounts of materials collected, the various components become dirty in different periods of time. Frequent inspection after initial start-up is best practical method to establish a routine maintenance schedule for any given material being collected.

To remove components:

1. Disconnect primary cable at fitting on power pack.
2. Remove access panel hardware and remove access panel. When removing and placing it down, be careful not to deform the high voltage contacts located on the under side.
3. Pull components from cabinet. Place on smooth flat surface to avoid deforming.

Any coatings of contaminant build-up on ionizing blades can normally be removed with a small amount of solvent applied with a cloth. Exceptionally stubborn coatings on blades may require removal with a very fine emery cloth, carefully used. Use emery cloth on flat surface of blade, not on points.

When necessary, after prolonged use, the complete ionizer and collector plate sections may require a good manual cleaning with warm water and a non-foaming, non-corrosive detergent. Care should be taken in handling throughout the operation. High pressure commercial spray devices (such as a car wash) usually do a good job.

Periodically, the surfaces of the components within the power pack should be wiped clean and the securement of connections checked. Access to the power supply is gained by removing the primary power cable and power pack cover.

V. TROUBLESHOOTING

NOTE: EXERCISE THE NORMAL PRECAUTIONS WHEN WORKING WITH HIGH VOLTAGE.

A. PILOT LIGHT (LED) DIM:

1. Check to see that primary power is supplied to power supply and that LED is good.
2. If power is supplied to the power supply, and the pilot light is dim, it is an indication that there is a short circuit, either in the power supply or the ionizing-collecting elements. It can be isolated to one or the other by energizing the power supply with the ionizer and collector elements removed from the cabinet. If the light glows bright with the elements removed from the cabinet, the short is then in the ionizer or the collector sections. It can be further isolated to one or the other by energizing one at a time with the other removed.
 - Power Supply Shorts: Pilot light dim or out with ionizing-collecting elements removed. Replace power supply.
 - Ionizer Shorts:
 - Bent or deformed ionizer blades. Remove and replace.
 - Dirty insulators. Clean.
 - Foreign objects between charged and ground potentials. Remove.
 - Collector Shorts:
 - Foreign object between plates. Remove.
 - Bent or deformed plates. Straighten.
 - Dirty insulators. Clean.

B. EXCESSIVE ARCING:

1. Loose or damaged ionizing blade. Replace.
2. Large particle of foreign material lodged between the collector plates. Remove.
3. Bent collector plates. Straighten.
4. Loose high voltage connection or deformed high voltage contact spring. Correct or replace as necessary.
5. Ionizer and/or collector excessively dirty. Refer to IV. Maintenance.

C. LOW OR REDUCED EFFICIENCY:

1. Dirty ionizing blades and/or collector components. Refer to cleaning instructions under IV. Maintenance.
2. Increase in gas flow above the unit rating. Reduce flow.

3. Increase in particulate concentration above unit rating. Reduce concentrations.
4. Low secondary voltage. The ionizer voltage should be -13 KVDC +/- 500 VDC. The collector voltage should be -6.5 KVDC +/- 500 VDC. The ionizer current should be between 0.5 and 1.5 mA.
5. Loose or faulty high voltage connection between power supply and ionizer-collector elements. Check secondary wiring from power supply to high voltage contact springs. Check high voltage contacts to be sure they are contacting both ionizer and collector.

VI. RECOMMENDED SPARE PARTS

ITEM	DESCRIPTION	PART NO.	QTY SUGGESTED
A	All 120 VAC Input Power Supply	267232-120	1
	All 240 VAC Input Power Supply	267232-240	
B	LED Assembly	241101-020	1
C	Spring Contact	221952-001	1

VII. OUTLINE DRAWINGS

OUTLINE DRAWINGS (SUBSEQUENT PAGES)

The “weatherproof power pack” and “weatherproof junction box” are designed to offer protection to IP-54. The junction box for 220-240 VAC models is furnished with a terminal block for connection of field installed supply power wiring. The terminal block is earthed to the junction box through the earth terminal (PE) and includes a 1.2 Amp fuse for the line connection (L). A third unfused terminal is included for the neutral (N) supply wire. A strain relief connector for connecting a supply cable to the junction box, suitable for cable diameters of 4.8 to 7.9 mm, is furnished. It is packaged with the junction box.

150 CFM PARTS

TRION Part Number	Weight (lbs.)	Inlet Connector	Outlet Connector	Part Number Flame Arrestor	Power Supply	
					120 VAC	240 VAC
439057-001 -029	141	2” Flange	–	322792-001	1 0	0 1
-002 -030	145	3” Flange	–	322792-002	1 0	0 1
-003 -031	150	4” Flange	–	322791-002	1 0	0 1
-008 -036	147	2” Flange	2” Flange	322792-001	1 0	0 1
-009 -037	155	3” Flange	3” Flange	322792-002	1 0	0 1
-010 -038	165	4” Flange	4” Flange	322791-002	1 0	0 1
-015 -043	138	2” Pipe	–	322792-001	1 0	0 1
-016 -044	141	3” Pipe	–	322792-002	1 0	0 1
-017 -045	143	4” Pipe	–	322791-002	1 0	0 1
-022 -050	141	2” Pipe	2” Pipe	322792-001	1 0	0 1
-023 -051	147	3” Pipe	3” Pipe	322792-002	1 0	0 1
-024 -052	151	4” Pipe	4” Pipe	322791-002	1 0	0 1
-061 -062	159	6” Flange	–	322791-001	1 0	0 1
-060 -059	183	6” Flange	6” Flange	322791-001	1 0	0 1

NOTES:

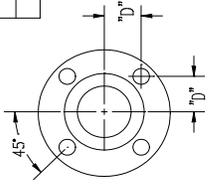
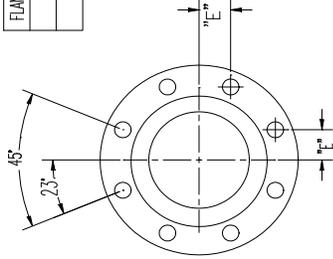
1. The part number for the Ionizer Cell for all units on this page is 422728-011. Only one required.
2. The part number for the Collector Cell for all units on this page is 422729-003. Only one required.
3. Flame arrestor not supplied but required in pipe inlet applications.

150 CFM - Outline Drawing with Inlet Flange or Pipe (424396)

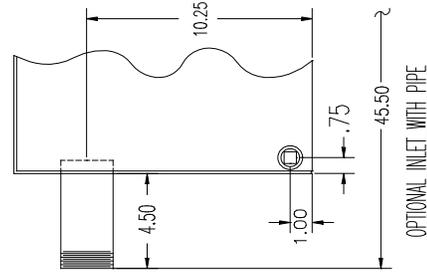
TRION P.N.	WEIGHT (LBS.)	INLET CONNECTOR	OUTLET CONNECTOR	FLAME ARRESTOR P.N.	POWER REQUIREMENTS	DIM. "A"	DIM. "B"
439057-001	141	2" FLANGE	---	322792-001	120 V 60 HZ	3.75	10.25
-029	141	2" FLANGE	---	322792-001	240 V 50 HZ	3.75	10.25
-015	138	2" PIPE	---	322792-001	120 V 60 HZ	---	10.25
-043	138	2" PIPE	---	322792-001	240 V 50 HZ	---	10.25
-002	145	3" FLANGE	---	322792-002	120 V 60 HZ	3.56	10.25
-030	145	3" FLANGE	---	322792-002	240 V 50 HZ	3.56	10.25
-016	141	3" PIPE	---	322792-002	120 V 60 HZ	---	10.25
-044	141	3" PIPE	---	322792-002	240 V 50 HZ	---	10.25
-003	150	4" FLANGE	---	322791-002	120 V 60 HZ	3.56	10.25
-031	150	4" FLANGE	---	322791-002	240 V 50 HZ	3.56	10.25
-017	143	4" PIPE	---	322791-002	120 V 60 HZ	---	10.25
-045	143	4" PIPE	---	322791-002	240 V 50 HZ	---	10.25
-061	159	6" FLANGE	---	322791-001	120 V 60 HZ	3.50	9.81
-062	159	6" FLANGE	---	322791-001	240 V 50 HZ	3.50	9.81

FLANGE SIZE	BOLT CIRCLE DIA.	"D"	HOLE DIA.
2"	4.750	1.679	.750
3"	6.000	2.121	.750

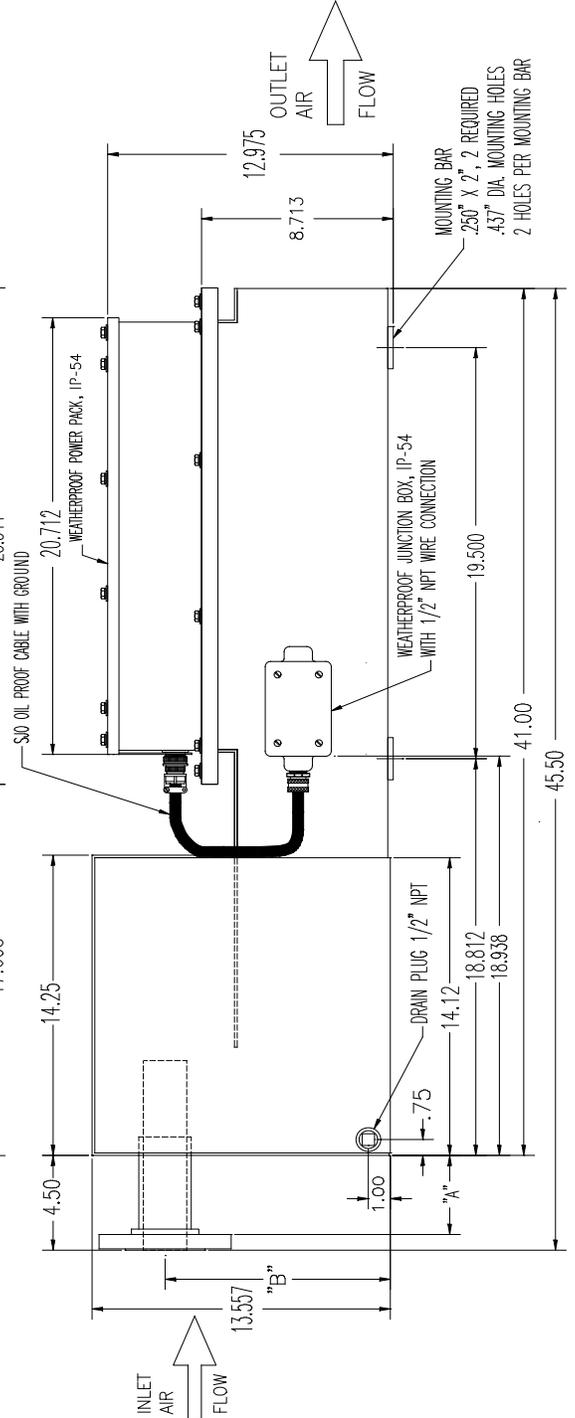
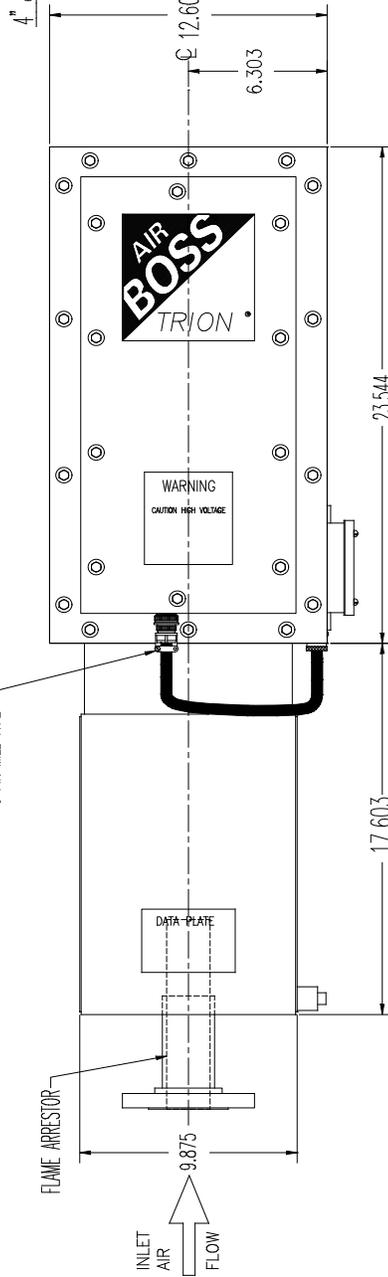
FLANGE SIZE	BOLT CIRCLE DIA.	"E"	HOLE DIA.
4"	7.500	1.435	.750
6"	9.500	1.817	.875



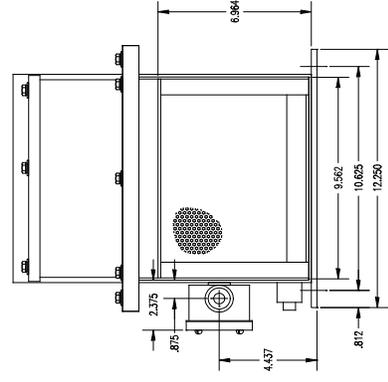
- NOTES:
1. DUCT OR RAIN SHIELD MAY BE CONNECTED TO OUTLET.
 2. MOUNT FOR VERTICAL UP AIR FLOW.
 3. FLANGES 150# RAISED FACE.



4" & 6" FLANGE HOLE POSITION



OPTIONAL INLET WITH PIPE

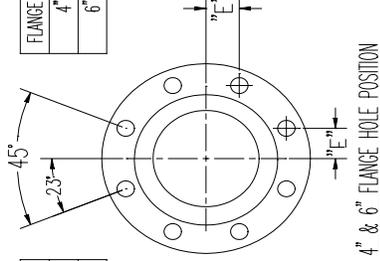


150 CFM - Outline Drawing with Inlet & Outlet Flange or Pipe (424397)

TRION P.N.	WEIGHT (LBS.)	INLET CONNECTOR	OUTLET CONNECTOR	FLAME ARRESTOR P.N.	POWER REQUIREMENTS	DIM. "A"	DIM. "B"	DIM. "C"
439057-008	147	2" FLANGE	2" FLANGE	32792-001	120 V 60 HZ	3.75	10.25	---
-036	147	2" PIPE	2" PIPE	32792-001	240 V 50 HZ	3.75	10.25	---
-022	141	2" PIPE	2" PIPE	32792-001	120 V 60 HZ	---	10.25	---
-050	141	2" PIPE	2" PIPE	32792-001	240 V 50 HZ	---	10.25	---
-009	155	3" FLANGE	3" FLANGE	32792-002	120 V 60 HZ	3.56	10.25	.03
-037	155	3" PIPE	3" PIPE	32792-002	240 V 50 HZ	3.56	10.25	.03
-023	147	3" PIPE	3" PIPE	32792-002	120 V 60 HZ	---	10.25	---
-051	147	3" PIPE	3" PIPE	32792-002	240 V 50 HZ	---	10.25	---
-010	165	4" FLANGE	4" FLANGE	32791-002	120 V 60 HZ	3.56	10.25	.78
-038	165	4" PIPE	4" PIPE	32791-002	240 V 50 HZ	3.56	10.25	.78
-024	151	4" PIPE	4" PIPE	32791-002	120 V 60 HZ	---	10.25	---
-052	151	4" PIPE	4" PIPE	32791-002	240 V 50 HZ	---	10.25	---
-060	183	6" FLANGE	6" FLANGE	32791-001	120 V 60 HZ	3.50	9.81	1.78
-059	183	6" FLANGE	6" FLANGE	32791-001	240 V 50 HZ	3.50	9.81	1.78

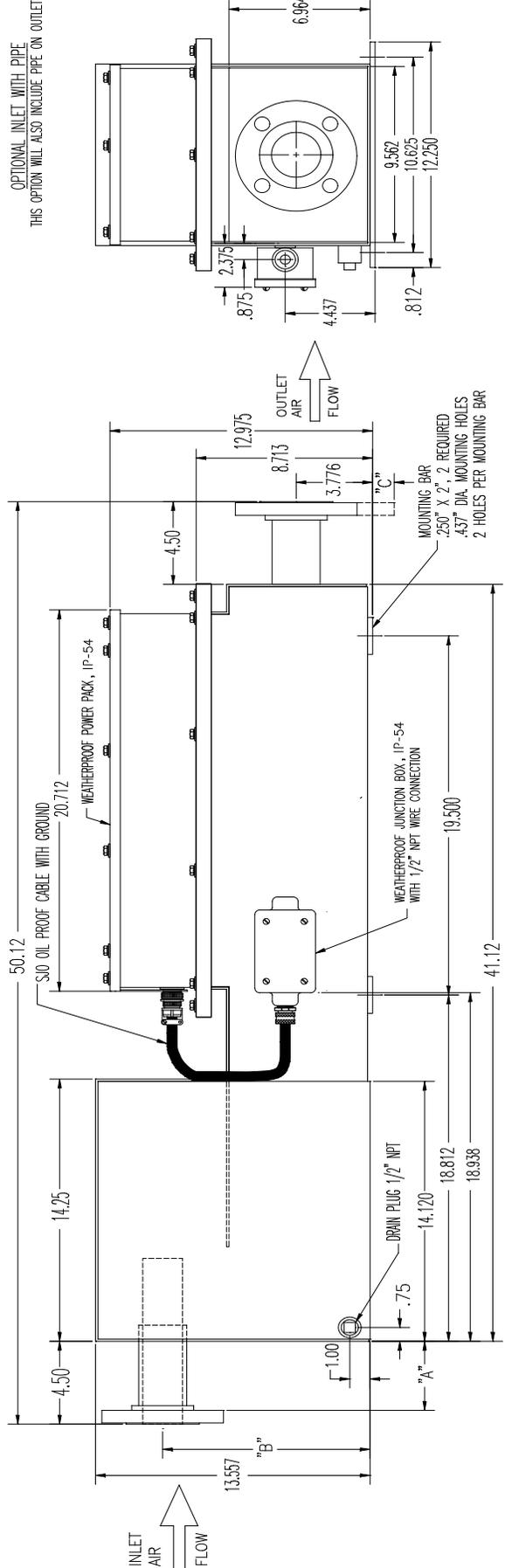
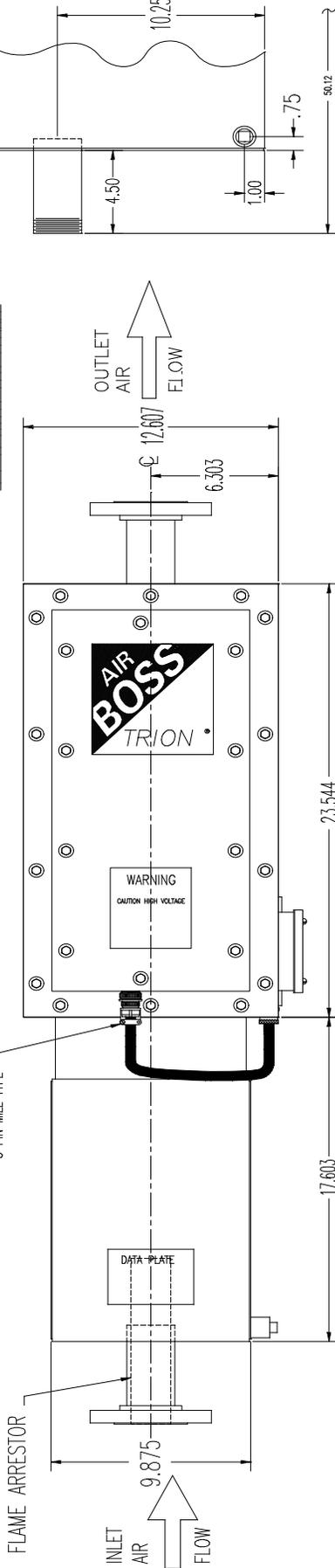
FLANGE SIZE	BOLT CIRCLE DIA.	"D" HOLE DIA.
2"	4.750	.750
3"	6.000	2.121
4"	7.500	1.435
6"	9.500	1.817

FLANGE SIZE	BOLT CIRCLE DIA.	"E" HOLE DIA.
4"	7.500	1.435
6"	9.500	1.817



NOTES:
 1. DUCT OR RAIN SHIELD MAY BE CONNECTED TO OUTLET.
 2. DUCT OR RAIN SHIELD TO BE INSTALLED UP AIR FLOW.
 3. FLANGES HAVE RAISED FACE.

WEATHER PROOF PLUG CONNECTION
 5 PIN MILL TYPE



OPTIONAL INLET WITH PIPE
 THIS OPTION WILL ALSO INCLUDE PIPE ON OUTLET

300 CFM PARTS

TRION Part Number	Weight (lbs.)	Inlet Connector	Outlet Connector	Part Number Flame Arrestor	Power Supply	
					120 VAC	240 VAC
439057-004 -032	156	2" Flange	—	322792-001	1 0	0 1
-005 -033	160	3" Flange	—	322792-002	1 0	0 1
-006 -034	165	4" Flange	—	322791-002	1 0	0 1
-007 -035	174	6" Flange	—	322791-001	1 0	0 1
-011 -039	162	2" Flange	2" Flange	322792-001	1 0	0 1
-012 -040	170	3" Flange	3" Flange	322792-002	1 0	0 1
-013 -041	180	4" Flange	4" Flange	322791-002	1 0	0 1
-014 -042	198	6" Flange	6" Flange	322791-001	1 0	0 1
-018 -046	153	2" Pipe	—	322792-001	1 0	0 1
-019 -047	156	3" Pipe	—	322792-002	1 0	0 1
-020 -048	158	4" Pipe	—	322791-002	1 0	0 1
-021 -049	164	6" Pipe	—	322790-001	1 0	0 1
-025 -053	156	2" Pipe	2" Pipe	322792-001	1 0	0 1
-026 -054	162	3" Pipe	3" Pipe	322792-002	1 0	0 1
-027 -055	168	4" Pipe	4" Pipe	322791-002	1 0	0 1
-028 -056	178	6" Pipe	6" Pipe	322791-001	1 0	0 1
-057	179	4" Flange	6" Flange	322791-001	1	0
-065*	162	3" Pipe	3" Pipe	322792-002	1	0

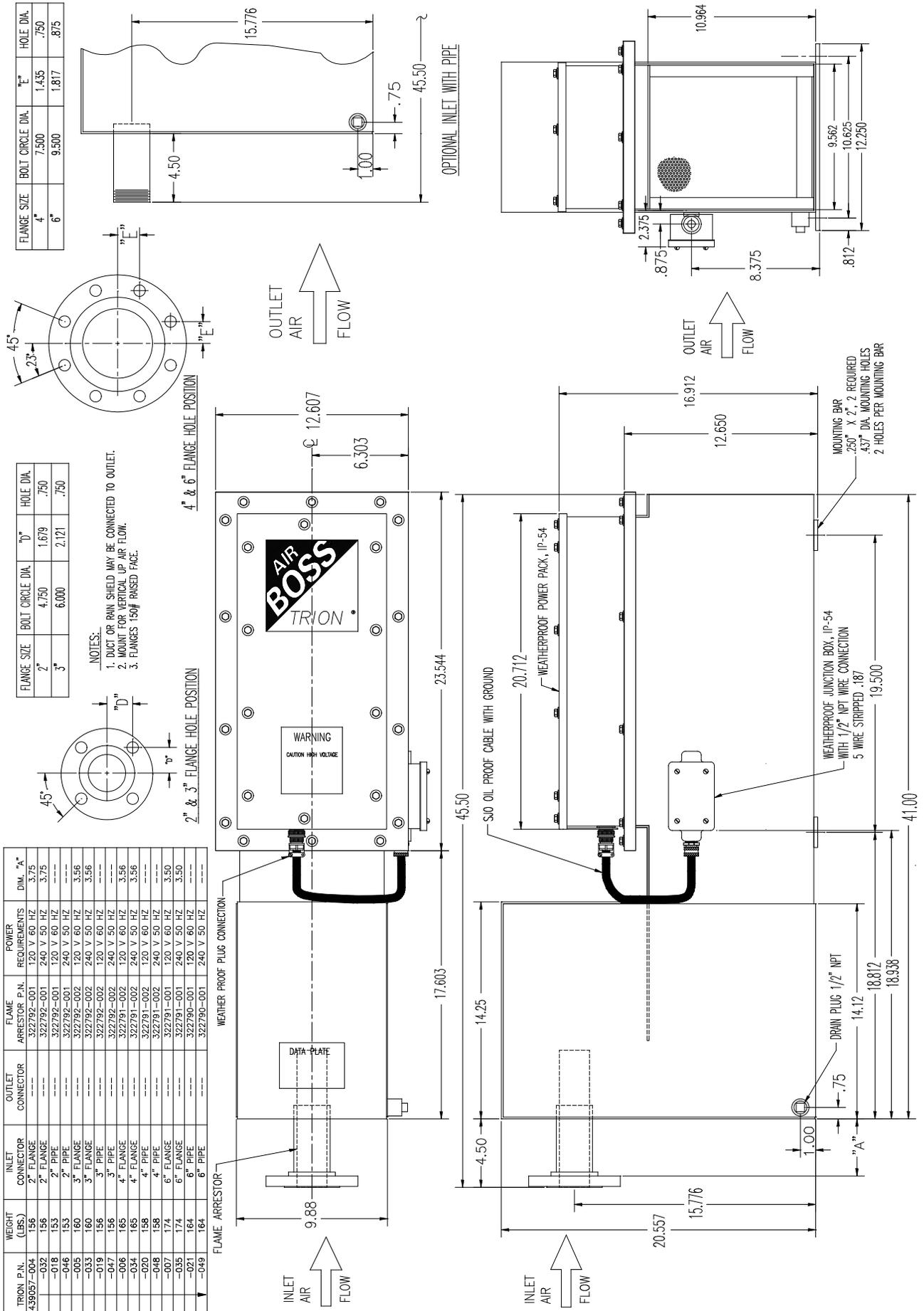
NOTE:

1. The part number for the Ionizer Cell for all units on this page is 422728-012. Only one required.
2. The part number for the Collector Cell for all units on this page is 422729-002. Only one required.
3. Flame arrestor not supplied but required on pipe inlet applications.

* Stainless Steel Ionizer & Collector Cell

- Ionizer Part No. 431318-001
- Collector Cell Part No. 431319-001

300 CFM - Outline Drawing with Inlet Flange or Pipe (424399)



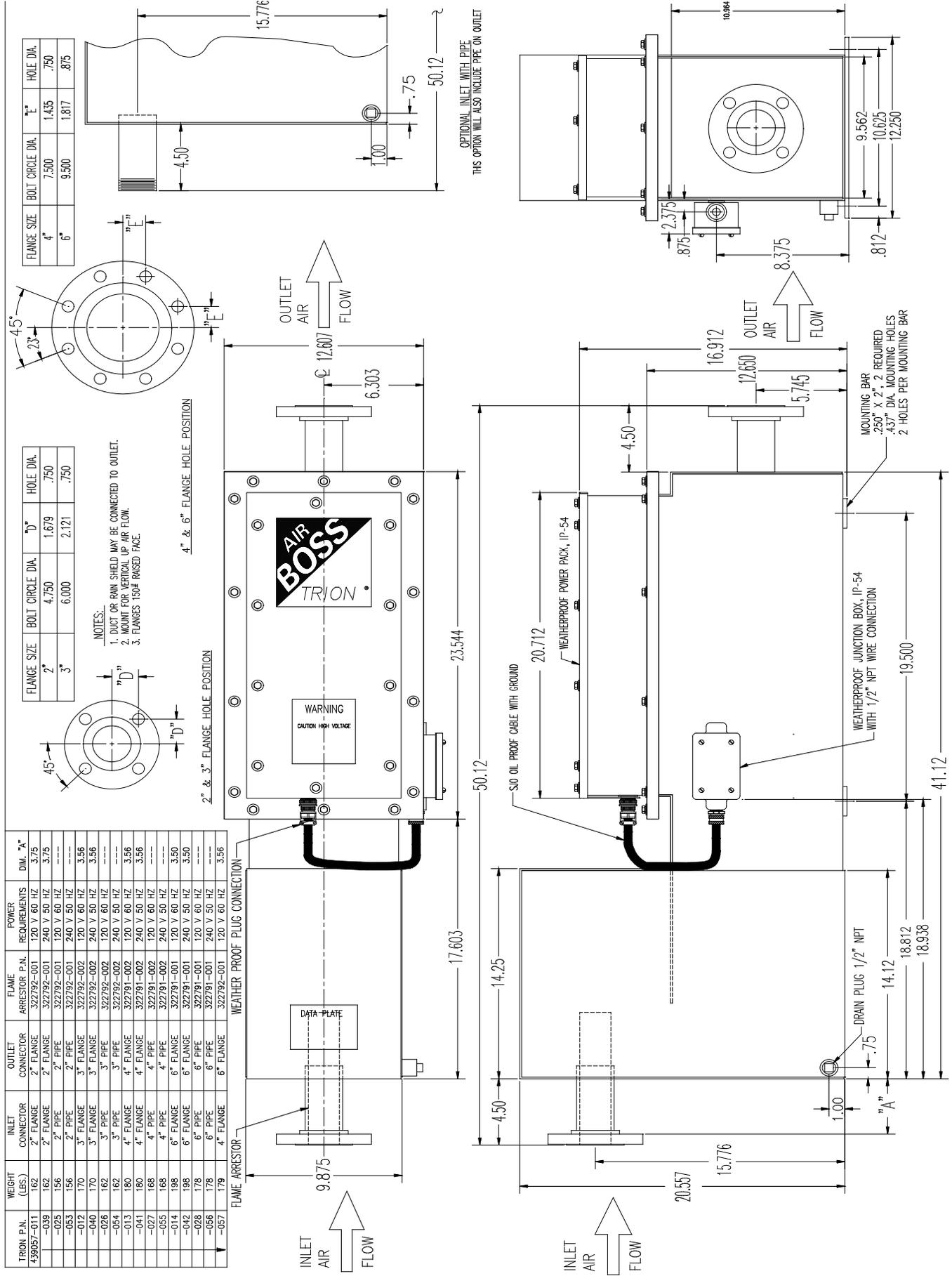
TRION P.N.	WEIGHT (LBS.)	INLET CONNECTOR	OUTLET CONNECTOR	FLAME ARRESTOR P.N.	POWER REQUIREMENTS	DIM. "A"
439057-004	156	2" FLANGE	---	322792-001	120 V 60 HZ	3.75
-002	156	2" FLANGE	---	322792-001	240 V 50 HZ	3.75
-018	153	2" PIPE	---	322792-001	120 V 60 HZ	---
-046	153	2" PIPE	---	322792-001	240 V 50 HZ	---
-005	160	3" FLANGE	---	322792-002	120 V 60 HZ	3.56
-033	160	3" FLANGE	---	322792-002	240 V 50 HZ	3.56
-019	156	3" PIPE	---	322792-002	120 V 60 HZ	---
-047	156	3" PIPE	---	322792-002	240 V 50 HZ	---
-006	165	4" FLANGE	---	322791-001	120 V 60 HZ	3.56
-034	165	4" FLANGE	---	322791-002	240 V 50 HZ	3.56
-020	158	4" PIPE	---	322791-001	120 V 60 HZ	---
-048	158	4" PIPE	---	322791-002	240 V 50 HZ	---
-007	174	6" FLANGE	---	322790-001	120 V 60 HZ	3.50
-035	174	6" FLANGE	---	322790-001	240 V 50 HZ	3.50
-021	164	6" PIPE	---	---	---	---
-049	164	6" PIPE	---	---	---	---

FLANGE SIZE	BOLT CIRCLE DIA.	"D"	HOLE DIA.
2"	4.750	1.679	.750
3"	6.000	2.121	.750

FLANGE SIZE	BOLT CIRCLE DIA.	"E"	HOLE DIA.
4"	7.500	1.435	.750
6"	9.300	1.817	.875

- NOTES:
1. DUCT OR RAIN SHIELD MAY BE CONNECTED TO OUTLET.
 2. MOUNT FOR VERTICAL UP AIR FLOW.
 3. FLANGES 150# RAISED FACE.

300 CFM - Outline Drawing with Inlet & Outlet Flange or Pipe (424398)



600 CFM PARTS

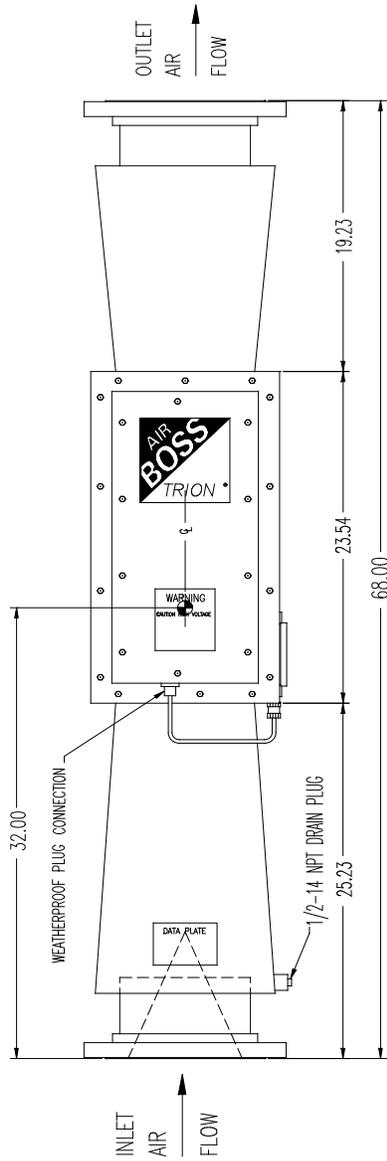
TRION Part Number	Weight (lbs.)	Inlet Connector	Outlet Connector	Part Number Flame Arrestor	Power Supply	
					120 VAC	240 VAC
439057-063	355	8" Flange	8" Flange	322791-003	1	0
439057-064	355	8" Flange	8" Flange	322791-003	0	1

NOTE:

1. The part number for the Ionizer Cell for all units on this page is 422728-013. Two are required.
2. The part number for the Collector Cell for all units on this page is 422729-005. Two are required.

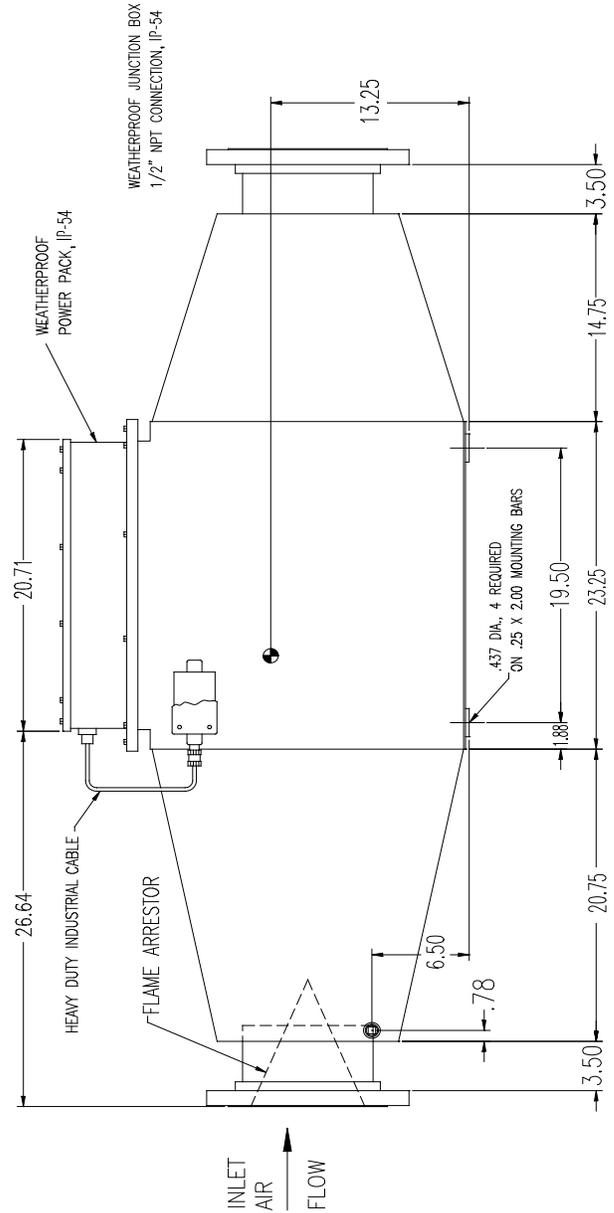
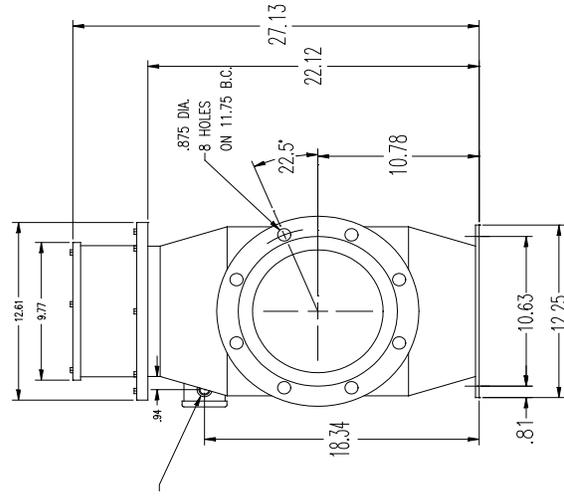
600 CFM - Outline Drawing (429436)

TRION PART NO.	WEIGHT (LBS.)	INLET CONNECTOR	OUTLET CONNECTOR	FLAME ARRESTOR PART NO.	POWER REQUIREMENTS
439057-063	355	8" FLANGE	8" FLANGE	322791-003	120 VOLT 60 HZ
439057-064	355	8" FLANGE	8" FLANGE	322791-003	240 VOLT 50 HZ



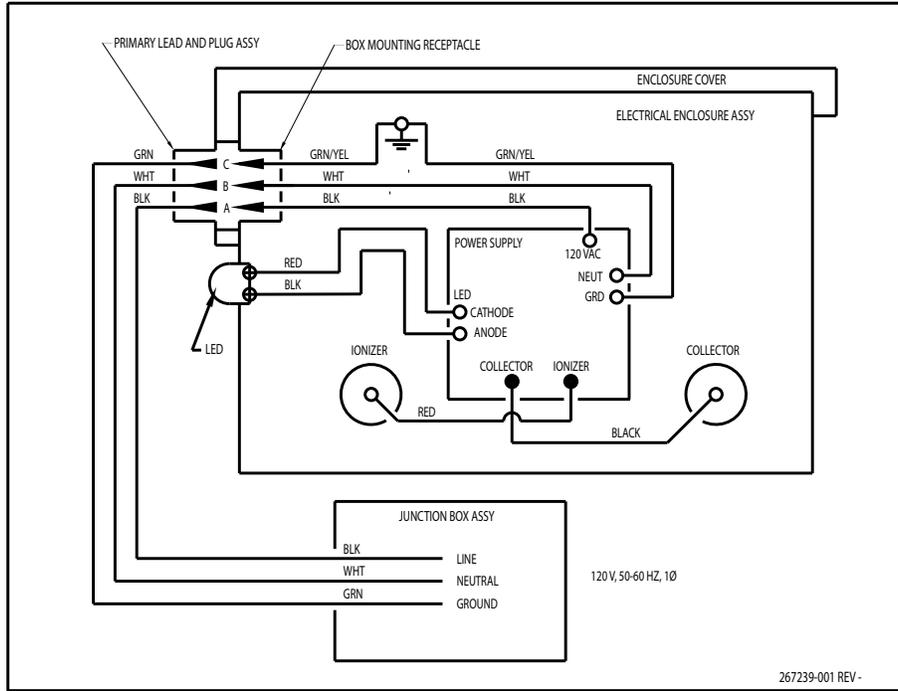
NOTES:

1. MOUNT FOR VERTICAL UP AIR FLOW.
2. INLET AND OUTLET FLANGES ARE 150 LBS. RAISED FACE.
3. DUCT OR RAIN SHIELD MAY BE CONNECTED TO OUTLET.

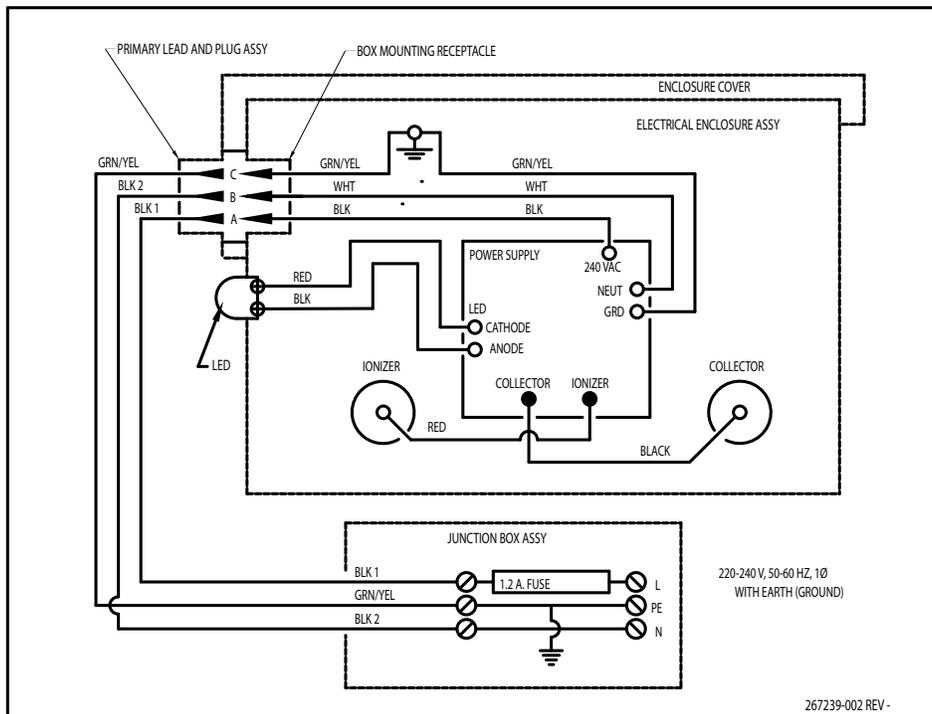


VIII. ELECTRICAL SCHEMATIC

120V



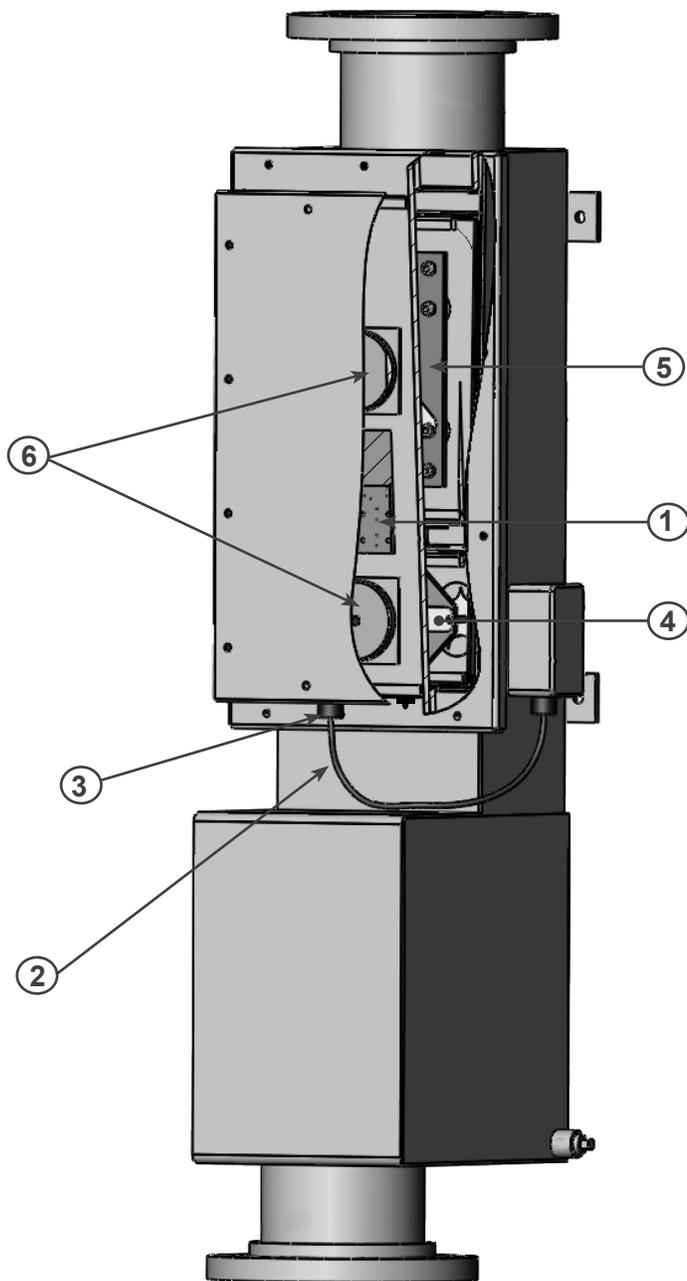
220-240V



IV. ELECTRICAL PARTS LIST

150 CFM QTY	300 CFM QTY	600 CFM QTY	Item	TRION Part No.	Description
1	1	1	1	267232-120	Power Supply - 120 VAC Input Voltage
				267232-240	Power Supply - 240 VAC Input Voltage
1	1	-	2	268678-001	Primary Plug and Receptacle Assembly 120 VAC Input Voltage - 150 and 300 CFM
				268678-003	Primary Plug and Receptacle Assembly 240 VAC Input Voltage - 150 and 300 CFM
-	-	1		268678-002	Primary Plug and Receptacle Assembly 120 VAC Input Voltage - 600 CFM
				268678-004	Primary Plug and Receptacle Assembly 240 VAC Input Voltage - 600 CFM
1	1	1	3	241101-020	LED Assembly
1	-	-	4	422728-011	Ionizer Cell
-	1	-		422728-012	
-	-	2		422728-013	
1	-	-	5	422729-003	Collector Cell
-	1	-		422729-002	
-	-	2		422729-005	
4	4	4	6	122732-002	Insulator (HV Contact)
2	2	2	*	221952-001	HV Contact
2	4	8	*	242037-002	Spiked Ionizer Blade
2	2	4	*	220081-001	Insulator, Ionizer Cell
2	2	4	*	220146-001	Insulator, Collector Cell

V. DIAGRAM





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Indoor Air Quality

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