



## ODS-H SERIES OZONE DESTRUCT UNIT

### INSTRUCTION MANUAL

**INTRODUCTION:** The ODS-H series Ozone Destruct Unit utilizes a thermal-catalytic method to remove excess ozone. The catalyst is a transition metal manganese dioxide copper oxide material. It is not consumed by the ozone and acts as a true catalyst.

**INSTALLATION:** Connect ozone compatible tubing, or equivalent, to the inlet (bottom fitting) on the unit. The outlet (on the side of the unit) may be vented to atmosphere, or may be piped outdoors if desired. *It is recommended to pipe the output of the unit outside the facility in case of destruct media failure.* Plug in the electrical cord to provide power to the unit.

**OPERATION:** Turn the switch to ON position. The heater band will begin to heat the top of the unit.

**IMPORTANT:** *The heater band must be turned on 30 minutes prior to flow through the unit to allow adequate time for warm-up. Be careful not to touch to top of the destruct unit as this may get very warm.*

Be sure that the ozone flow rate does not exceed the specifications for the unit. If the flow rate is too high, the unit will not be effective. The ODS unit is designed to have less than 0.10 ppm ozone concentration at its exit.

The heater band is incorporated onto the unit to prevent moisture from condensing on the destruct media. In the event that the media becomes wet, such as when process water accidentally flows into the unit, the media must be replaced.

**MAINTENANCE:** The destruct media may become fouled or contaminated over time, and will need replacement periodically depending upon usage and conditions. Replacement destruct media can be obtained from Ozone Solutions.

To replace the destruct media:

- Remove the cover from the top of the unit and completely empty the unit by sucking the media out with a vacuum, or by tipping the unit upside down.
- Clean the inside if necessary. Any build-up due to moisture should be removed. If detergents or solvents are used, rinse the unit thoroughly with water and dry it completely before refilling.
- Dump the new media into the unit. With a wood mallet or similar object, tap the side of the unit while filling it so that the media "settles" towards the bottom.
- Ensure that the gasket for the top cover is in good condition. Clean the mating surfaces and re-install the cover. Do not use sealants, if the gasket cannot be re-used then it should be replaced.

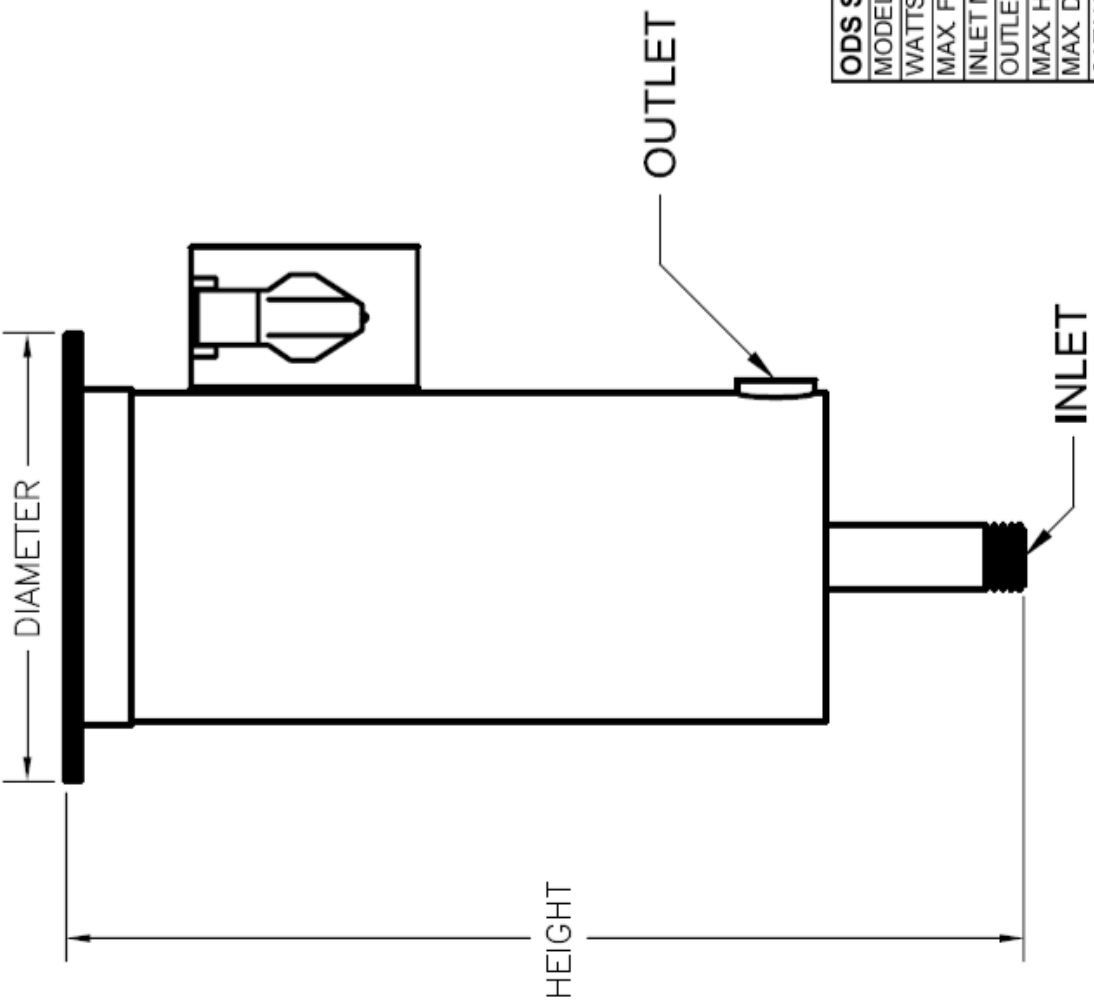
**All technical questions or concerns should be directed to:**

Ozone Solutions

451 Black Forest Road

Hull, IA 51239

Phone: (712) 439-6880 e-mail: [tech@ozonesolutions.com](mailto:tech@ozonesolutions.com)



ODS SPECIFICATIONS					
MODEL	3H	10H	30H	100H	
WATTS	24	36	96	192	
MAX FLOW (SCFM)	3	10	30	100	
INLET MALE NPT	3/4"	1"	2"	3"	
OUTLET FEMALE NPT	3/4"	1"	2"	3"	
MAX HEIGHT	13"	19 1/2"	22 1/2"	26"	
MAX DIAMETER	6 1/2"	9"	11 1/8"	16"	
CATALYST WEIGHT (LBS)	4	12	35	77	



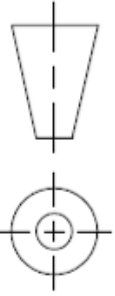
---

--- --

SIZE	A	DWG NO. <b>DESTRUCT UNIT</b>	REV
SCALE	TIME	SHEET	OF

DRAWN	DATE	DATE	DATE
BJK	11/2/09	---	---
CHECKED	---	---	---
APPROVED	---	---	---

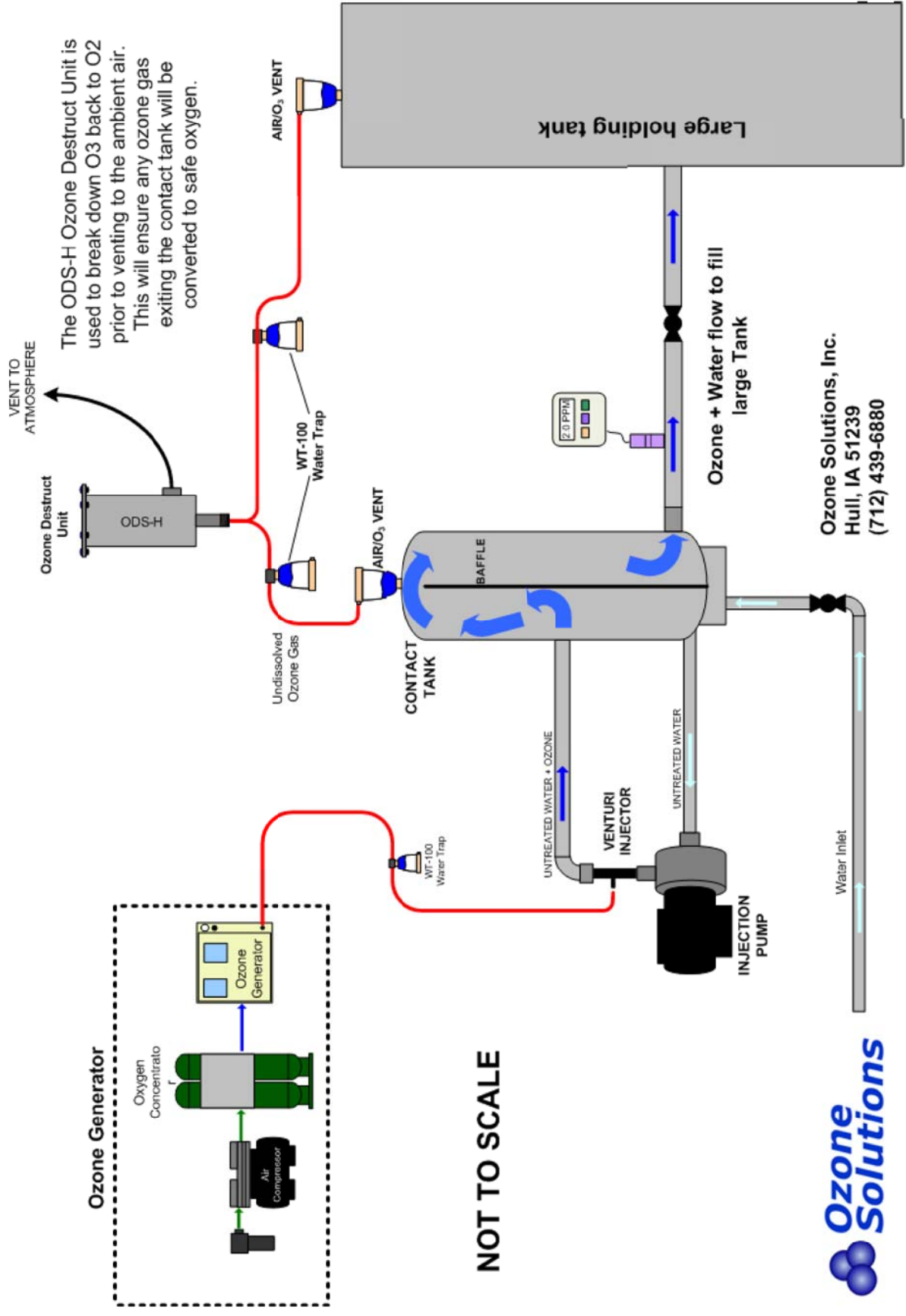
THIRD ANGLE PROJECTION



MATERIAL	UOS ALL RADII
SS	RXX
UOS SURFACE FINISH	
XXX XXX XXX	
BREAK ALL EDGES .01 x 45°	

REV	DESCRIPTION	DATE	APVD
REVISIONS			
UOS DIMENSIONS ARE IN INCHES			
DIMENSIONS CONFORM TO ASME Y14.5M-1994			
GENERAL TOLERANCES			
.XX ± .03	.XXX ± .005	ANGULAR ±1°	

# Ozone System Diagram



VENT TO ATMOSPHERE

Ozone Destruct Unit  
ODS-H

The ODS-H Ozone Destruct Unit is used to break down O3 back to O2 prior to venting to the ambient air. This will ensure any ozone gas exiting the contact tank will be converted to safe oxygen.

WT-100 Water Trap

UNDISSOLVED OZONE GAS

AIR/O<sub>3</sub> VENT

AIR/O<sub>3</sub> VENT

Large holding tank

Ozone + Water flow to fill large Tank

2.0 PPM

NOT TO SCALE

Ozone Solutions, Inc.  
Hull, IA 51239  
(712) 439-6880

