



# Mazzei®

## Mazzei GDT™ Ozone Contacting System

*World Leader  
in Mixing and  
Contacting  
Technologies*

Contact us today.

**Mazzei Injector Company, LLC**

500 Rooster Drive

Bakersfield, California 93307-9555

TEL 661-363-6500

FAX 661-363-7500

www.mazzei.net



### **The preferred method for rapid transfer of ozone gas into solution and subsequent removal of undissolved gases.**

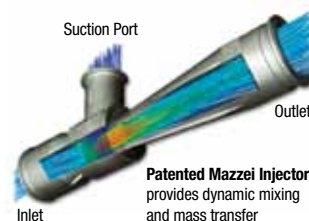
The Mazzei GDT™ process features a high-efficiency Mazzei Injector to pull ozone gas from an ozone generator into a liquid sidestream and provide initial mass transfer. The two-phase solution then flows to a Flash Reactor for further mass transfer through high velocity mixing, and finally, through a Degas Separator for entrained gas removal. The undissolved gases are released through a Degas Relief Valve, and piped to an ozone destruct unit, for safe venting to the atmosphere. Each system is custom engineered for high mass transfer efficiency and conveniently assembled on a compact skid frame.

#### **Benefits**

- ▶ Small footprint
- ▶ 95% or higher ozone transfer
- ▶ Maintains system pressure
- ▶ Low maintenance
- ▶ 316L stainless steel
- ▶ Undissolved ozone processed through destruct unit
- ▶ Field proven technology

#### **System Options**

- ▶ Control package
- ▶ Ozone generator
- ▶ Ambient ozone alarm
- ▶ Dissolved ozone monitor
- ▶ Connection types
- ▶ Skid frame materials



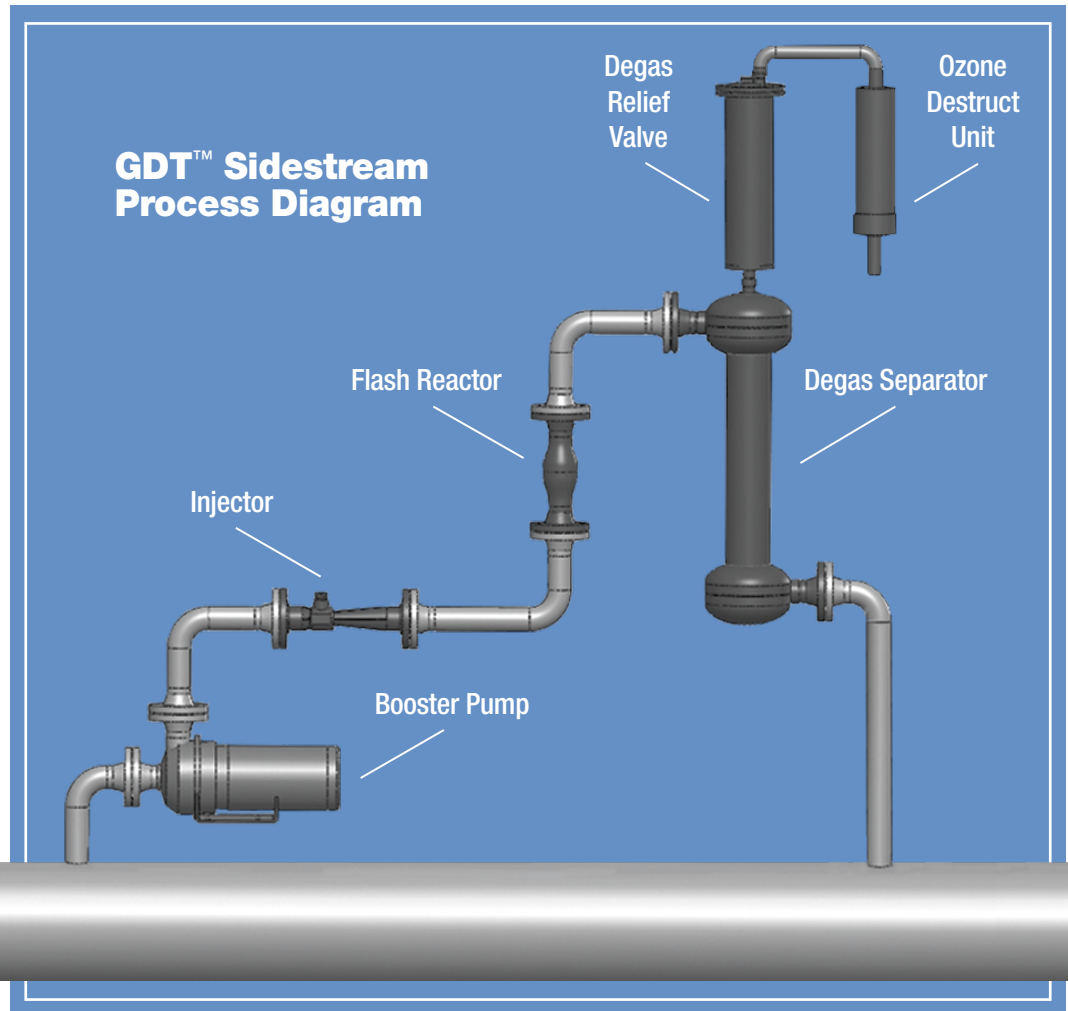
# Mazzei GDT™ Ozone Contacting System

## Maximize Ozone Treatment and Performance

The Mazzei GDT™ process maximizes both ozone mass transfer and removal of unwanted entrained gases.

Factors utilized by the GDT Process for Maximizing Transfer Efficiency:

- ▶ High ozone concentration and low gas to liquid ratios
- ▶ Increased pressure for more solubility
- ▶ Aggressive mixing – rapid renewal of the gas/liquid interface



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Mazzei Model No.	Skid Dimensions	Sidestream Flow Range (GPM)	Maximum Ozone Gas Flow Rates	
	H x W x D (in)		5% O <sub>3</sub> by Wt.	10% O <sub>3</sub> by Wt.
GDT-07	62" x 33" x 29"	3 - 15	27 g/hr (1.4 ppd)	54 g/hr (2.8 ppd)
GDT-10	62" x 33" x 29"	10 - 25	45 g/hr (2.4 ppd)	90 g/hr (4.7 ppd)
GDT-15	62" x 33" x 29"	30 - 75	135 g/hr (7.1 ppd)	270 g/hr (14.2 ppd)
GDT-20	64" x 31" x 25"	90 - 140	260 g/hr (13.7 ppd)	520 g/hr (27.4 ppd)
GDT-30	82" x 58" x 38"	200 - 300	550 g/hr (29.1 ppd)	1100 g/hr (58.2 ppd)

**Notes:**

Values in table above are calculated for a main line pressure of 30psig, and a 5psig pressurized gas feed  
All information is approximate, actual sizing is to be confirmed by Mazzei