



## 5Hp MEGA-SWEET Induction System (Chemical or Air)

Submersible Wastewater Efficient Effluent Treatment

The MEGA-SWEET chemical/air induction system is used to create a vacuum that draws in either chemicals or air. The MEGA-SWEET Package is specifically designed for air or vacuum chemical feed systems in the final contact chamber.

The MEGA-SWEET provides advanced treatment, reliability, and efficiency over conventional vacuum feed systems and costly problematic motor driven propeller-type induction units.



### MEGA-SWEET Package Components:

- Engineered oversized pump
- Kynar (PVDF) venturi ejector
- Jet/Diffuser manifold option

Application	Max
Chemical/Gas	4,000 PPD
Chemical/Liquid	20 GPM
Oxygen (O <sub>2</sub> )	4,485 SCFD

### Chemical Induction System

#### Features:

- Low installation and operational costs
- Easy to retrofit and install
- Minimal maintenance
- Optimal mixing with jet/diffusers
- More efficient chemical use
- Unlimited water depth
- No potable water required
- Permanently lubricated ball bearings
- No external water piping
- Safe operation – vacuum feed

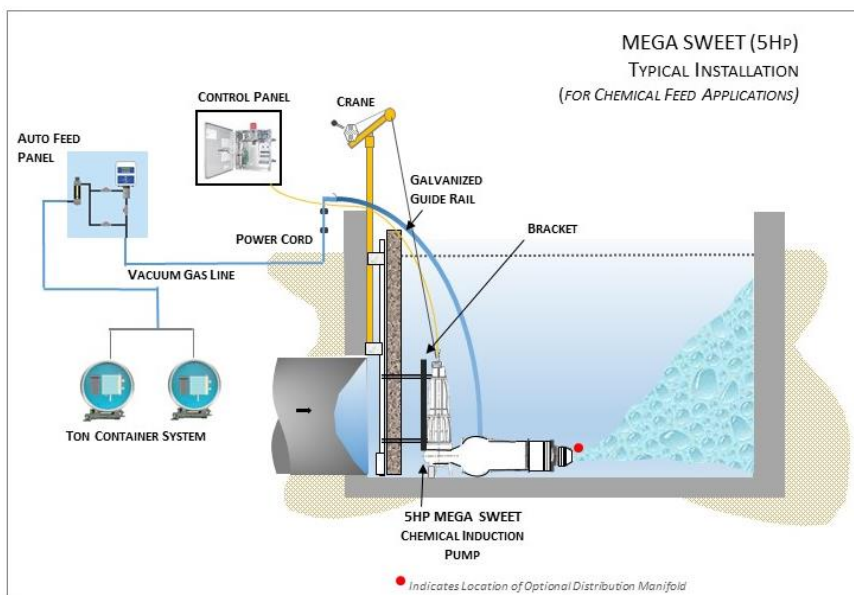
### Air Induction System

#### Features:

- Used to increase dissolved oxygen (DO) levels
- Low installation and operational costs
- Easy to retrofit and install
- No blowers, results in whisper quiet operation
- Unlimited water depth
- Can be used to inject air or pure oxygen
- Energy efficient oxygen transfer
- Safe operation – vacuum feed



The **Mega-SWEET** (Chemical or Air) Induction System provides a reliable and safe system for wastewater applications.



### The Process:

A vacuum is created via an engineered submersible sewage wastewater pump, a kynar (PVDF) venturi ejector, and optional jet/diffuser manifold.

- The specifically selected heavy solids handling pump is designed to meet the strict hydraulic requirements of the venturi and optional jet/diffuser manifold.
- The oil filled, hermetically sealed motor with heavy-duty housing provides continuous operation in submerged conditions.
- Process water passes through the engineered, oversized pump, Kynar (PVDF) venturi ejector, and optional jet/diffuser manifold to draw and mix disinfection chemical into the contact chamber.
- Jet/diffuser manifold optimizes chemical mixing resulting in reduced chemical costs.



Optional Distribution Manifold

#### 5Hp Mega SWEET Options:

- Standard Control Panel
- Upgraded Motor & Control Panel with Motor & Thermal Sensors
- Guide Rails
- Bracket
- Crane/Winch
- Distribution Manifold

Model	Hp	Full Load Amps	Locked Rotor Amps	Voltage	Phase/ Cycle	Weight Lbs	Electric Cord	Vacuum Conn.	Max Gas (ppd)	Max Liquid (gpm)	Max O2 (SCFD)
MEGA-SWEET 4130-5-3-HP	5	8	29.0	460	3/60	*275	25' of SJTW	2" FNPT	4000	20	4485

\*Add additional 50 lbs to weight if optional distribution manifold is added



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