

Water Champ® Chemical Induction Unit XP Submersible Series

General Description

The Water Champ® Submersible Chemical Induction System is an innovative device designed for the application of a variety of chemicals used for various treatment processes. The unique feature of the Water Champ® system is its ability to provide instantaneous mixing and diffusion.

The Explosion Proof, or "XP" Series submersible offers the highest quality of design and construction of any submersible chemical induction unit. The motor is epoxy-coated cast iron for the highest level of durability and performance required for chemical feed applications. Most wetted materials are constructed from Grade 2 Titanium (unalloyed) and are designed for use with most treatment chemicals. The innovative mounting is configured for mounting in open-channel applications and can be easily retrofitted to existing basins and tanks.

The Water Champ® XP Series system provides gas feed up to 10,000 lbs./day, up to 20 HP and liquid feed up to 60 gpm.

Features

- Titanium wetted parts*
- Rugged construction
- FM approved motor for Class I, Div 1, Group
- C&D Installations

Key Benefits

- Instantaneous diffusion and mixing
- Energy and chemical savings
- Maximum chemical concentration with no off-gassing
- Warranty - 1 year from start-up or 18 months after delivery whichever occurs first
- Custom materials available

Specifications

| Model No. | KW (HP) | Max. Gas Induction CL ² kg/d (ppd) | Max. Liquid Induction lpm US gpm | Max. Vacuum kPa (in Hg) |
|-----------|-----------|---|----------------------------------|-------------------------|
| SWC15XP | 11.2 (15) | 3,628 (8,000**) | 189 (50**) | 88 (26) |
| SWC20XP | 15 (20) | 4,536 (10,000**) | 227 (60**) | 88 (26) |

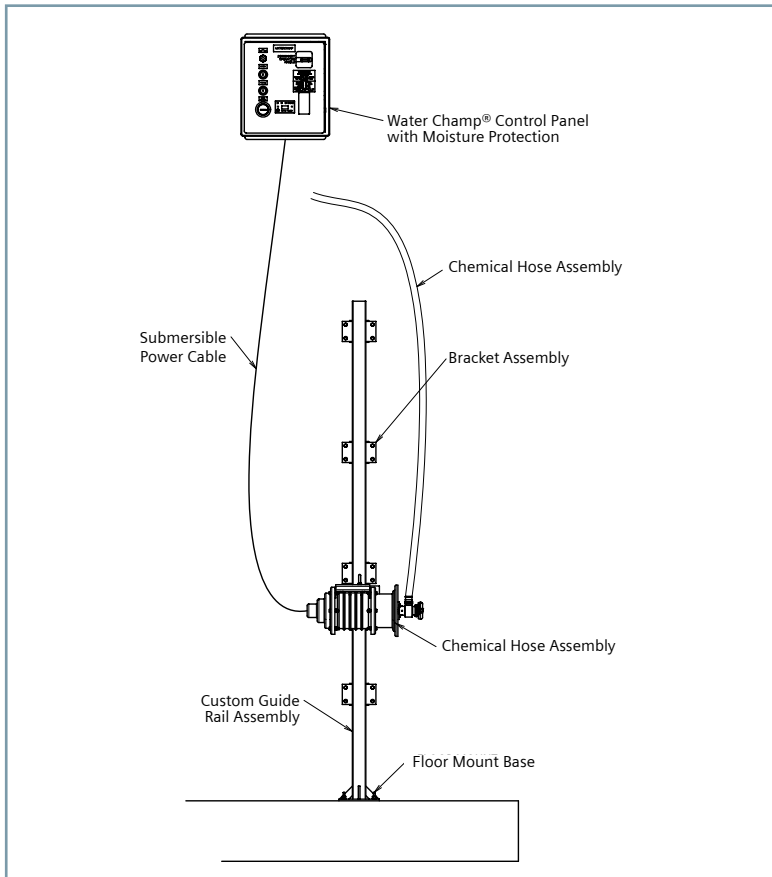
* Custom materials quoted upon request.

** Feed rates are application dependent (consult factory).



Product Sheet

Typical Installation



| Materials of Construction | |
|---------------------------|--|
| Part | Material |
| Vacuum Chamber | Titanium |
| Vacuum Port | Titanium |
| Vacuum Enhancer | Non-Metallic |
| Propeller | Titanium |
| Propeller Bolt | Titanium |
| Shaft | Hastalloy® C |
| Mechanical Seals | Silicone Carbide |
| Motor | Cast 30 Gray Iron Corrosion Resistant Paint |
| Power Cable | Seoprene Seow-A |
| Hardware | 316 Stainless Steel |

| Motor Performance Data | | | | | | | | | | | | | | | | |
|------------------------|------------|-------|-------|-------|------|------------|------|----------------------|---------------------|-------------------|----------------|------|------|--------------|------|------|
| Model | KW (HP) | Volts | Phase | Hertz | RPM | Insulation | S.F. | FLA Rated Input Amps | SFA Max. Input Amps | Locked Rotor Amps | Power Factor % | | | Efficiency % | | |
| | | | | | | | | | | | S.F. | F.L. | 3/4 | S.F. | F.L. | 3/4 |
| SWC15XP | 11.25 (15) | 460 | 3 | 60 | 3450 | Class F | 1.15 | 18 | 21.6 | 121.5 | 89.4 | 89.5 | 88.2 | 83.7 | 87.2 | 90.1 |
| SWC20XP | 15 (20) | 460 | 3 | 60 | 3450 | Class F | 1.15 | 24.2 | 30.25 | 132.9 | 86.4 | 86.4 | 84.4 | 87.7 | 89.6 | 91.4 |

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