

# Water Champ® Chemical Induction Unit 6" Submersible F Series Model No. SWC10F

## General Description

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

The "F" Series submersible offers the highest quality of design and construction of any submersible chemical induction unit. The hermetically sealed 316 SS motor offers 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.

## Features

- Titanium wetted parts\*
- Rugged construction
- Heavy duty bearing design
- Motor monitoring system

## 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

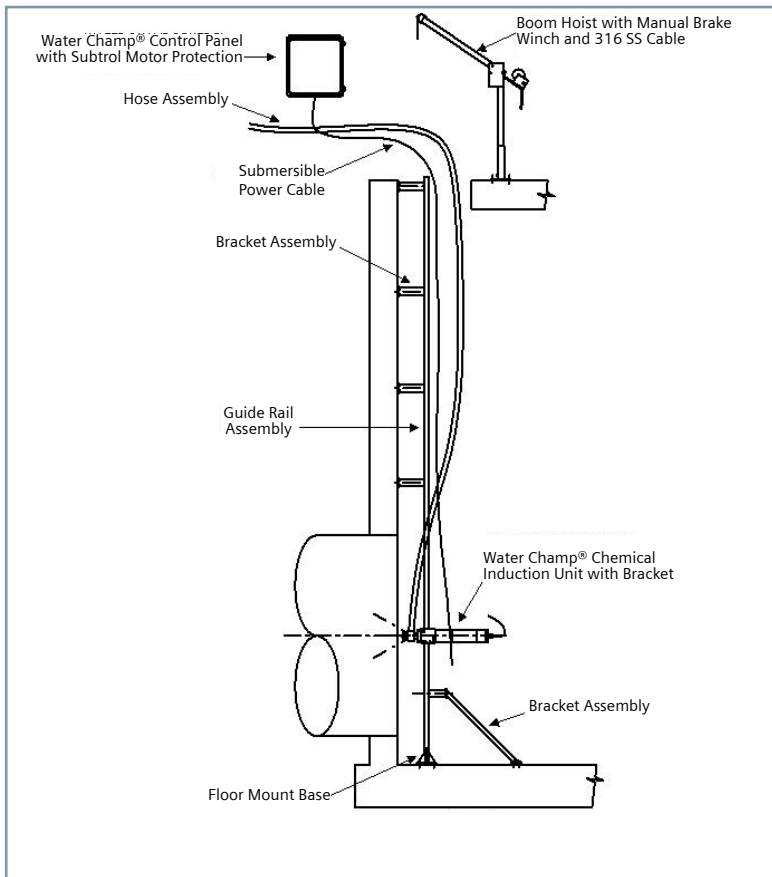
| Model No. | KW (HP)  | Max. Gas Induction CL <sup>2</sup> kg/d (ppd) | Max. Liquid Induction lpm US gpm | Max. Vacuum kPa (in Hg) |
|-----------|----------|---|----------------------------------|-------------------------|
| SWC10F    | 7.5 (10) | 2,721.6 (6,000**)                             | 151.4 (40**)                     | 78 (23)                 |

\* Custom materials quoted upon request.

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



## Typical Water Champ® System Horizontal Installation



| Materials of Construction |                             |
|---------------------------|-----------------------------|
| Part                      | Material                    |
| Vacuum Chamber            | Titanium                    |
| Vacuum Port               | Titanium                    |
| Vacuum Enhancer           | Non-Metallic                |
| Propeller                 | Titanium                    |
| Propeller Bolt            | Titanium                    |
| Shaft                     | Titanium                    |
| Mechanical Seals          | Silicone Carbide            |
| Motor                     | 316 Stainless Steel         |
| Power Cable               | TC Type<br>(25 ft standard) |
| Hardware                  | 316 Stainless Steel         |

| Motor Performance Data |             |       |       |       |      |            |      |                               |                              |                         |                |      |      |              |      |      |
|------------------------|-------------|-------|-------|-------|------|------------|------|-------------------------------|------------------------------|-------------------------|----------------|------|------|--------------|------|------|
| Model                  | KW<br>(HP)  | Volts | Phase | Hertz | RPM  | Insulation | S.F. | FLA<br>Rated<br>Input<br>Amps | SFA<br>Max.<br>Input<br>Amps | Locked<br>Rotor<br>Amps | Power Factor % |      |      | Efficiency % |      |      |
|                        |             |       |       |       |      |            |      |                               |                              |                         | S.F.           | F.L. | 3/4  | S.F.         | F.L. | 3/4  |
| SWC10F                 | 7.5<br>(10) | 200   | 3     | 60    | 3450 | Class F    | 1.15 | 32.7                          | 37                           | 198                     | 85.5           | 83.2 | 77.2 | 79.2         | 79.4 | 78   |
| SWC10F                 | 7.5<br>(10) | 230   | 3     | 60    | 3450 | Class F    | 1.15 | 28.4                          | 32.2                         | 172                     | 85.5           | 83.2 | 77.2 | 79.2         | 79.4 | 78   |
| SWC10F                 | 7.5<br>(10) | 460   | 3     | 60    | 3450 | Class F    | 1.15 | 14.2                          | 16.1                         | 86                      | 85.5           | 83.2 | 77.2 | 79.2         | 79.4 | 78   |
| SWC10F                 | 7.5<br>(10) | 575   | 3     | 60    | 3450 | Class F    | 1.15 | 11.4                          | 12.9                         | 69                      | 85.5           | 83.2 | 77.2 | 79.2         | 79.4 | 78   |
| SWC10F                 | 7.5<br>(10) | 230   | 1     | 60    | 3450 | Class F    | 1.15 | Y 44<br>B 39.5<br>R 9.3       | Y 51<br>B 47.5<br>R 8.9      | 204                     | 95.8           | 95.8 | 95.3 | 76.2         | 76.8 | 76.3 |

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