

Water Champ® Chemical Induction Unit 6" Submersible F Series Model No. SWC25F

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 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 motor is a hermetically sealed 316 SS motor 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.

Features

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

Capacities

- 18.64 KW (25 HP)
- Gas to 22,046 kg/d (10,000 lbs./day)**
- Liquid to 227 l/min (60 US gpm)

* Custom materials quoted upon request.

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

Key Benefits

- Instantaneous diffusion / mixing
- Energy and chemical savings
- No off-gassing
- Easily serviced
- Maximum chemical concentration
- Warranty - 1 yr from start-up or 18 months after delivery

Performance Specifications

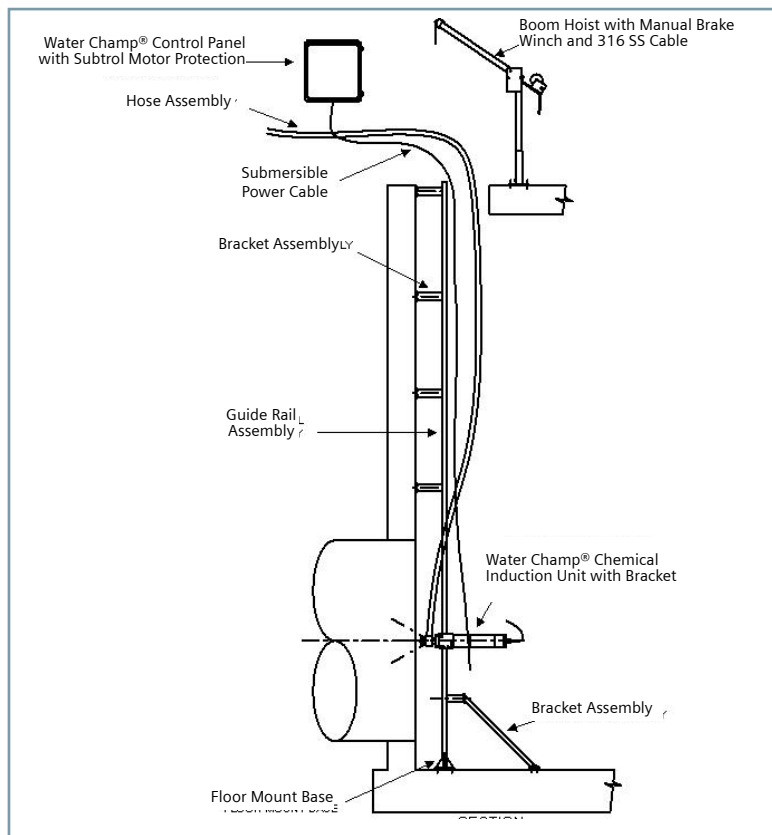
Model No.	KW (HP)	Max. Gas Induction CL2 kg/d (ppd)	Max. Liquid Induction l/min US gpm	Max. Vacuum kPa (in Hg)
SWC25F	18.64 25	22,046 10,000*	227 60*	88 26

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



Product Sheet

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	Hastalloy C
Mechanical Seals	Silicone Carbide
Motor	316 Stainless Steel
Power Cable	TC Type 7.62m (25 ft standard)
Hardware	316 Stainless Steel

Motor Performance Data

Model	KW (HP)	Volts	Phase	Hertz	RPM	Insulation	S.F.	Rated Input Amps	Max. Input Amps	Locked Rotor Amps	Power Factor %			Efficiency %		
											S.F.	F.L.	3/4	S.F.	F.L.	3/4
SWC25F	18.64 25	200	3	60	3450	Class F	1.15	77.1	86.3	552	86.8	84.8	79.5	83	83	82
SWC25F	18.64 25	230	3	60	3450	Class F	1.15	67	75	480	86.8	84.8	79.5	83	83	82
SWC25F	18.64 25	460	3	60	3450	Class F	1.15	33.5	37.5	240	86.8	84.8	79.5	83	83	82
SWC25F	18.64 25	575	3	60	3450	Class F	1.15	26.8	30	192	86.8	84.8	79.5	83	83	82

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