

Micro-Champ[®] Chemical Induction Unit 4" Submersible Series Model No. SWC0.5F

General Description

The Micro Champ is the smallest submersible chemical induction unit in the Water Champ[®] F Series product line. Like the Water Champ units Micro Champ offers instantaneous diffusion / mixing and the highest level of durability and performance required for chemical feed applications – only at a smaller size for use at smaller water and wastewater treatment facilities.

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 mounting bracket is engineered for installing in open-channel applications and can be easily retrofitted to existing basins and tanks.

The Micro-Champ[®] Chemical Injection Unit provides gas feed up to 100 lbs./day and liquid feed up to 5 gpm.

Features

- Titanium wetted parts*
- Rugged construction
- Heavy duty bearing design

Key Benefits

- Instantaneous diffusion for maximum mixing
- Energy and chemical savings
- Maximum chemical concentration with no off-gassing
- Warranty - 1 year from start-up or 18 months after delivery
- Custom materials available to meet customer application needs

Specifications

Model No.	KW (HP)	Max. Gas Induction CL ² kg/d (ppd)	Max. Liquid Induction lpm US gpm	Max. Vacuum kPa (in Hg)
SWC0.5F	1/2 (.37)	45.3 (100**)	19 (5**)	.61 (18)

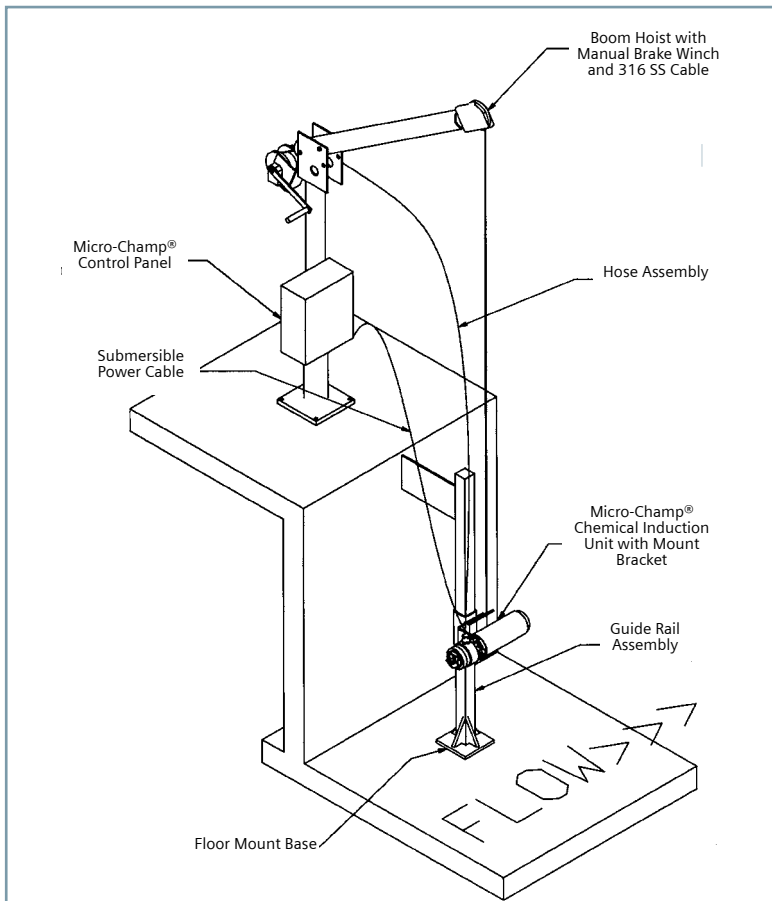
* Custom materials quoted upon request.

** 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	Titanium
Mechanical Seals	Carbon / Ceramic
Motor	316 Stainless Steel
Power Cable	SOOW (25 ft standard)
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
SWC0.5F	.37 (1/2)	200	3	60	3450	Class B	1.60	2.8	3.4	17.5	75.8	61	52.5	70	64	58
SWC0.5F	.37 (1/2)	230	3	60	3450	Class B	1.60	2.4	2.9	15.2	75.8	61	52.5	70	64	58
SWC0.5F*	.37 (1/2)	230	1	60	3450	Class B	1.60	Y 5 B 5 R 0	Y 6 B 6 R 0	23	74	62	53	64	59	53
SWC0.5F	.37 (1/2)	460	3	60	3450	Class B	1.60	1.2	1.5	7.6	75.8	64	52.5	70	64	58
SWC0.5F	.37 (1/2)	115	1	60	3450	Class B	1.60	Y 10 B 10 R 0	Y 12 B 12 R 0	50.5	73	58	50	62	55	49

*Highlighted model is our standard, all others available upon request and will be special order.

Siemens
Water Technologies

Germany
+49 8221 9040
wtger.water@siemens.com

United Kingdom
+44 1732 771777
wtuk.water@siemens.com

USA
+1 800 809 0971
stranco.water@siemens.com

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