TECHNICAL BROCHURE
B3885 R2

FEATURES

Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.

Mechanical Seal: Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

WE Series

Model 3885

SUBMERSIBLE EFFLUENT PUMPS

BUILT IN THE USA
ENGINEERED, ASSEMBLED & TESTED

GOULDS WATER TECHNOLOGY
a xylem brand

APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum
- Discharge size: 2" NPT
- Capacities: up to 140 GPM
- Total heads: up to 128 feet TDH
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on ⅓ – 1½ HP models.
- Class F insulation on 2 HP models.

Single phase (60 Hz):

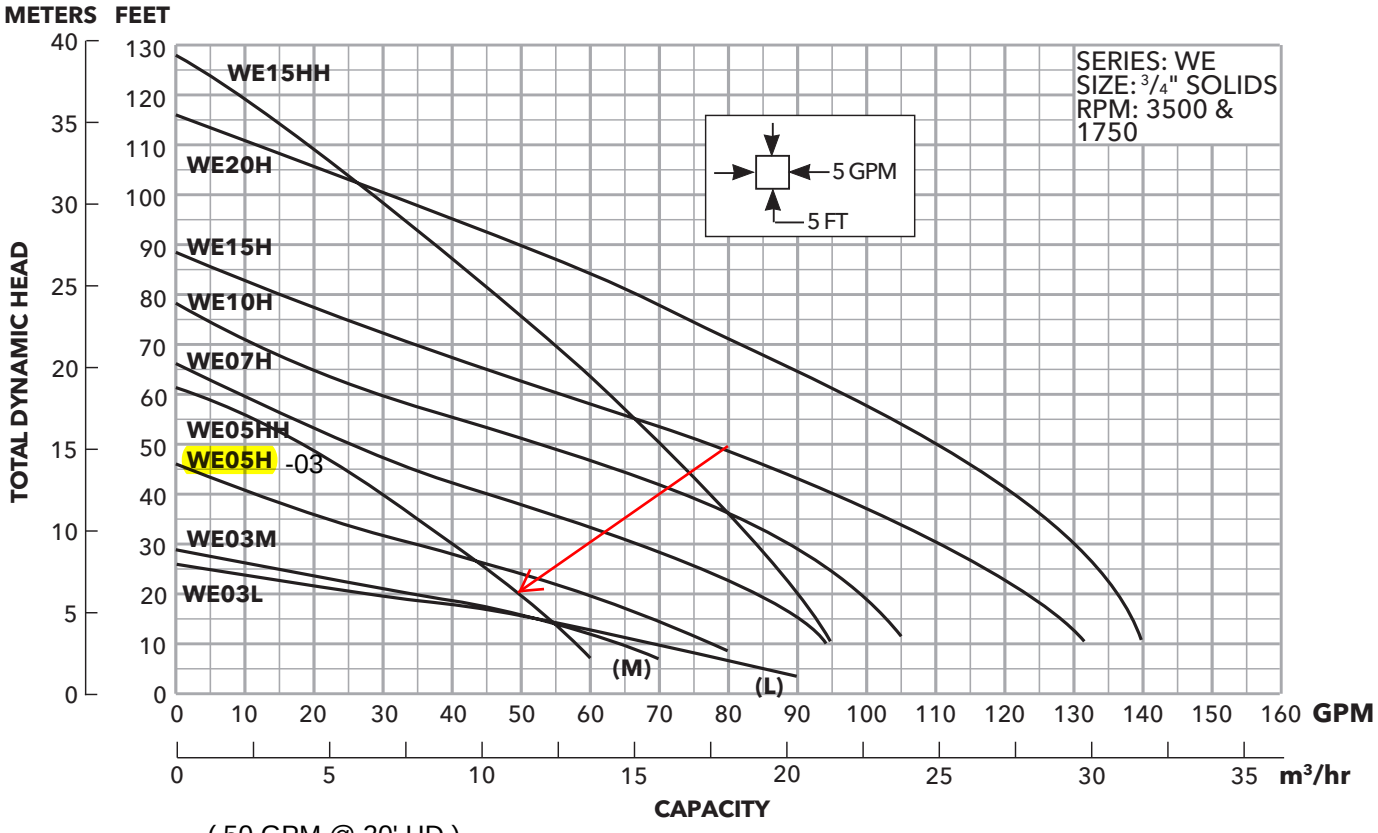
- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ⅓ – 1 HP models have NEMA three prong grounding plugs.
- 1½ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association File #LR38549



MODELS

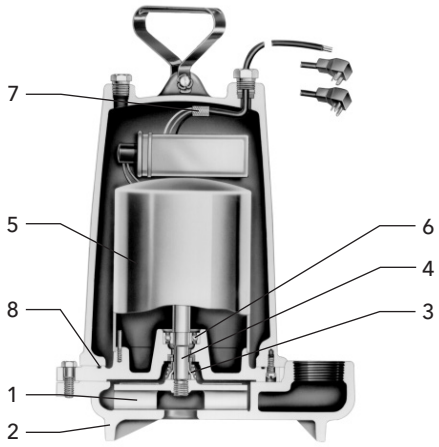
Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Efficiency %	Resistance		Power Cable Size	Weight (lbs.)
										Start	Line-Line		
WE0311L	0.33	1	115	1750	5.38	10.7	30.0	M	54	11.9	1.7	16/3	56
WE0318L			208			6.8	19.5	K	51	9.1	4.2		
WE0312L			230			4.9	14.1	L	53	14.5	8.0		
WE0311M			115			10.7	30.0	M	54	11.9	1.7		
WE0318M			208			6.8	19.5	K	51	9.1	4.2		
WE0312M			230			4.9	14.1	L	53	14.5	8.0		
WE0511H-03	0.5	1	115	3450	3.56	14.5	46.0	M	54	7.5	1.0	14/3	60
WE0518H			208			8.1	31.0	K	68	9.7	2.4	16/3	
WE0512H			230			7.3	34.5	M	53	9.6	4.0		
WE0538H		3	200			4.9	22.6	R	68	NA	3.8	14/4	
WE0532H			230			3.3	18.8	R	70	NA	5.8		
WE0534H			460			1.7	9.4	R	70	NA	23.2		
WE0537H			575			1.4	7.5	R	62	NA	35.3		
WE0511HH		1	115		3.88	14.5	46.0	M	54	7.5	1.0	14/3	
WE0518HH			208			8.1	31.0	K	68	9.7	2.4	16/3	
WE0512HH			230			7.3	34.5	M	53	9.6	4.0		
WE0538HH		3	200			4.9	22.6	R	68	NA	3.8	14/4	
WE0532HH			230			3.6	18.8	R	70	NA	5.8		
WE0534HH			460			1.8	9.4	R	70	NA	23.2		
WE0537HH			575			1.5	7.5	R	62	NA	35.3		
WE0718H	0.75	1	208		4.06	11.0	31.0	K	68	9.7	2.4	14/3	70
WE0712H			230			10.0	27.5	J	65	12.2	2.7		
WE0738H		3	200			6.2	20.6	L	64	NA	5.7	14/4	
WE0732H			230			5.4	15.7	K	68	NA	8.6		
WE0734H			460			2.7	7.9	K	68	NA	34.2		
WE0737H			575			2.2	9.9	L	78	NA	26.5		
WE1018H	1	1	208		4.44	14.0	59.0	K	68	9.3	1.1	14/3	
WE1012H			230			12.5	36.2	J	69	10.3	2.1		
WE1038H		3	200			8.1	37.6	M	77	NA	2.7	14/4	
WE1032H			230			7.0	24.1	L	79	NA	4.1		
WE1034H			460			3.5	12.1	L	79	NA	16.2		
WE1037H			575			2.8	9.9	L	78	NA	26.5		
WE1518H	1.5	1	208		4.56	17.5	59.0	K	68	9.3	1.1	14/3	80
WE1512H			230			15.7	50.0	H	68	11.3	1.6		
WE1538H		3	200			10.6	40.6	K	79	NA	1.9	14/4	
WE1532H			230			9.2	31.7	K	78	NA	2.9		
WE1534H			460			4.6	15.9	K	78	NA	11.4		
WE1537H			575			3.7	13.1	K	75	NA	16.9		
WE1518HH		1	208		5.50	17.5	59.0	K	68	9.3	1.1	14/3	
WE1512HH			230			15.7	50.0	H	68	11.3	1.6		
WE1538HH		3	200			10.6	40.6	K	79	NA	1.9	14/4	
WE1532HH			230			9.2	31.7	K	78	NA	2.9		
WE1534HH			460			4.6	15.9	K	78	NA	11.4		
WE1537HH			575			3.7	13.1	K	75	NA	16.9		
WE2012H	2	1	230		5.38	18.0	49.6	F	78	3.2	1.2	14/3	83
WE2038H		3	200			12.0	42.4	K	78	NA	1.7	14/4	
WE2032H			230			11.6	42.4	K	78	NA	1.7		
WE2034H			460			5.8	21.2	K	78	NA	6.6		
WE2037H			575			4.7	16.3	L	78	NA	10.5		

PERFORMANCE RATINGS (gallons per minute)

Order No.		WE-03L	WE-03M	WE-05H	WE-07H	WE-10H	WE-15H	WE-05HH	WE-15HH	WE-20H
Total Head Feet of Water	HP	⅓	⅓	½	¾	1	1½	½	1½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
	5	86	–	–	–	–	–	–	–	–
	10	70	63	78	94	–	–	58	95	–
	15	52	52	70	90	103	128	53	93	138
	20	27	35	60	83	98	123	49	90	136
	25	5	15	48	76	94	117	45	87	133
	30	–	–	35	67	88	110	40	83	130
	35	–	–	22	57	82	103	35	80	126
	40	–	–	–	45	74	95	30	77	121
	45	–	–	–	35	64	86	25	74	116
	50	–	–	–	25	53	77	–	70	110
	55	–	–	–	–	40	67	–	66	103
	60	–	–	–	–	30	56	–	63	96
	65	–	–	–	–	20	45	–	58	89
	70	–	–	–	–	–	35	–	55	81
	75	–	–	–	–	–	25	–	51	74
	80	–	–	–	–	–	–	–	47	66
	90	–	–	–	–	–	–	–	37	49
	100	–	–	–	–	–	–	–	28	30

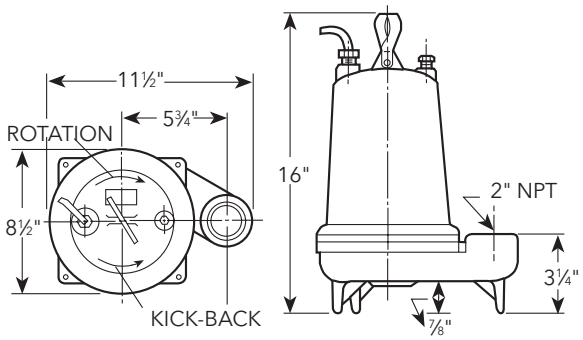
COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



xylem
Let's Solve Water

Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210
Fax: (888) 322-5877
www.gouldswatertechnology.com

BN	3005
REV	0914

Oil Smart® Simplex Panel (Model SEEWATER-00020)

Installation Manual

Oil Smart® Simplex System:

The Oil Smart® Simplex incorporates pump controls and alarm sensors that differentiate between oil and water, allowing companies to responsibly discharge the water without worrying about contamination. Installation of the Simplex Panel keeps companies in compliance with Elevator Code ASME A17.1 and State/Federal regulations while reducing the risk of adverse publicity, fines and expensive cleanup costs.

Features:

- Oil Smart® and Liquid Smart® Controls with 6’ cords and mounting brackets.
- Indoor/Outdoor NEMA 4X Heavy Duty Polycarbonate Enclosure: 10”x8”x4”, Color Gray Material 94V-2, Polycarbonate, IP-56 Rating
- J Box with 25’ cord connections
- Voltage: 120/208/240 VAC Single Phase 60Hz
- CSA International Certified No. 229294 , UL listed for the United States and Canada
- External Mounting Feet: Quick Installation.
- High Liquid Alarm with Test and Silence Buttons, Red Beacon Alarm Light, White Light for Water Present, Yellow Light for Oil Present, High 85 Decibel Audible Alarm. Complete Dry Contacts for Each Alarm Condition.
- HOA Switch and Green Light for Pump Run

CentriPro
a xylem brand

⚠ WARNING

1. All installations must be in accordance with the National Electrical Code, and any other applicable state and local electrical requirements.

⚠ WARNING

1. The switch and pump are not rated for explosive environments . This product is intended for hydraulic oils.

Service:

Caution: Before checking electrical conections within the control panel or attempting to replace any components, turn off all branch circuits supplying power to the main control panel.

Panel Installation:

1. Caution: To maintain the NEMA 4X rating, make all wiring connections with seal tight cable grips or conduit connections to be supplied by end user.
2. Determine mounting location for control panel. Mount panel using mounting feet supplied.
3. Determine hole location on panel for liquid-tight or conduit connections. Attach connectors and conduits.
4. If pump is present, it is important that the alarm circuit is independent of the pump to assure that the alarm will activate if pump circuit fails.
5. Run pump cable, Liquid Smart® cable, and Oil Smart® cable through conduit. Make field connections as shown on wiring diagram.
6. Run power line conductor through conduit. Wire to terminals per enclosed schematic. Branch circuit protection to be provided by end-user

Start up:

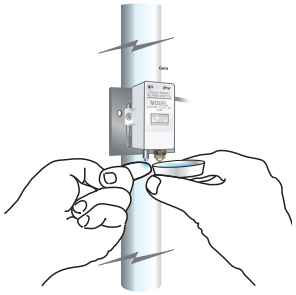
1. When the power is applied, the red power light located on the white front swing panel shall light.
2. The Pump HOA switch shall be placed to the A (auto) position to ensure the system will pump. The pump can be tested or turned on manually if the HOA switch is in the H (Hand-Manual) position.

To test the the alarm circuit, push the test button on the front panel, the audible alarm shall sound and the high red beacon will light.

Oil Smart® System (Model SEEWATER-00020)

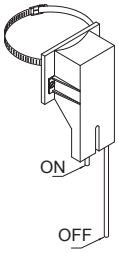
Testing:

Liquid Smart® Alarm Sensor: Fill small cup supplied with oil. Submerge only the plastic lens (optic sensor) into oil, the alarm will activate showing oil present (yellow light). Now touch finger to the exposed stainless steel sensor, the alarm will show water present, and (white light) will turn on.



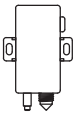
Oil Smart® Switch: Place HOA switch on control panel in the automatic position. Place your thumb on the short sensor of Oil Smart® Pump Switch and the pump will turn on. While touching the short sensor, touch the long sensor “off” with your fingers. Remove your thumb from on sensor and begin to move your fingers down the off sensor. Remove your fingers from off sensor and the pump will turn off. OR fill sump with water, when water reaches on sensor, the pump will

Note: Up to 100' cords from J-Box to Controller

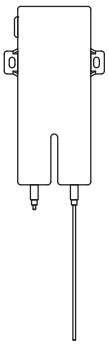


Operation:

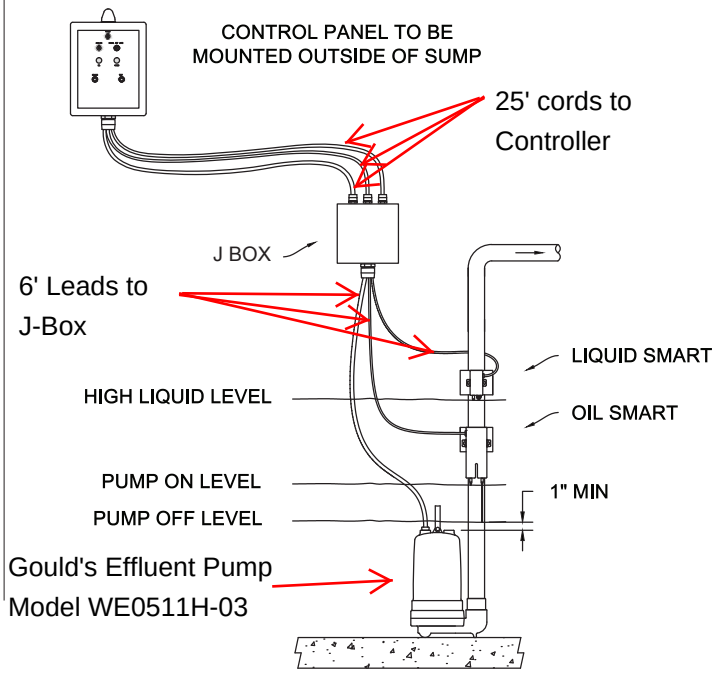
Liquid Smart® - When liquid comes in contact with the sensors, the Alarm beacon and buzzer will activate. The system will also indentify and indicate whether there is oil (yellow light) or water (white light) present.



Oil Smart® - When water comes in contact with the short (on) sensor, the pump will turn on. The pump will remain on until water is pumped below the long (off) sensor. If oil comes in contact with the on sensor, the pump will not turn on; however the pump switch will activate and pump water from under the oil.



Component Installation



Oil Smart Control Panel Troubleshooting Guide

Problem	Possible Cause	Solution
Pump Control does not activate the pump. Pump does not run.	Incorrect Polarity	Make sure phase and neutral are not reversed.
	Loose connection in control panel. or electrical system.	Confirm all connections are tight and secure.
	Defective Control	Test pump switch with fingers per the instructions (See Page 2) Replace Control.
Pump Control is not operating properly; not consistant or staying on.	Problem with electrical system	Check electrical circuits for common neutrals; may cause switch to not function correctly.
	Improper Field Wiring	Do not run DC conductors through same conduit as AC conductors.
	Control is not clean of conductive material.	White plastic case must be kept clean. Clean with alcohol or an oil base product: kerosene, solvent.
	Improper Mounting of Components	Keep control (1" to 2") clear of any metallic material. Mount to pvc pipe or if mounting to metal pipe, make sure to mount with See Water quick mount PVC bracket.
	Float switch attached to pump	Float switch must be removed, secured in manual operation, or replaced with correct pump.
	Defective Control and/or Pump(s)	Replace Control and/or Pump(s)
Alarm will not activate	Power supply failure	Confirm separate 120V power to circuit board control voltage. Can be jumpered from incoming supply voltage on pump terminal (120V).
	Defective Alarm Sensor	Replace Alarm Sensor
	Loose connection in control panel. or electrical system.	Confirm all connections are tight and secure.
Pump will not turn on or pump is not functioning properly.	Incorrect match on control panel and pump.	Confirm correct pump voltage control panel FLA ratings.
	Loose connection in control panel. or electrical system.	Confirm all connections are tight and secure.
	Defective Pump	Replace Pump
Preventive Maintenance: The Oil Smart Pump, and the Liquid Smart Alarm Switches must be kept clean. If the components are submerged in water during initial installation, the switches must be cleaned. Clean with a rag and household rubbing alcohol or kerosene. Consistent inspection and preventive maitenance ensures longevity and proper operation of components.		

CentriPro
a xylem brand

2881 East Bayard Street, Seneca Falls, NY 13148
Phone: (866) 673-0427 • Fax: (315) 568-2046
www.centripro.com