

STANCOR Oil-Minder® Model SB-20 Confined Space Pump and Control System



Solid State, NEMA 4
Oil-Minder® Control



SB-20 Pump with
OM-300 Vertical
Float & Oil-Minder®
Control



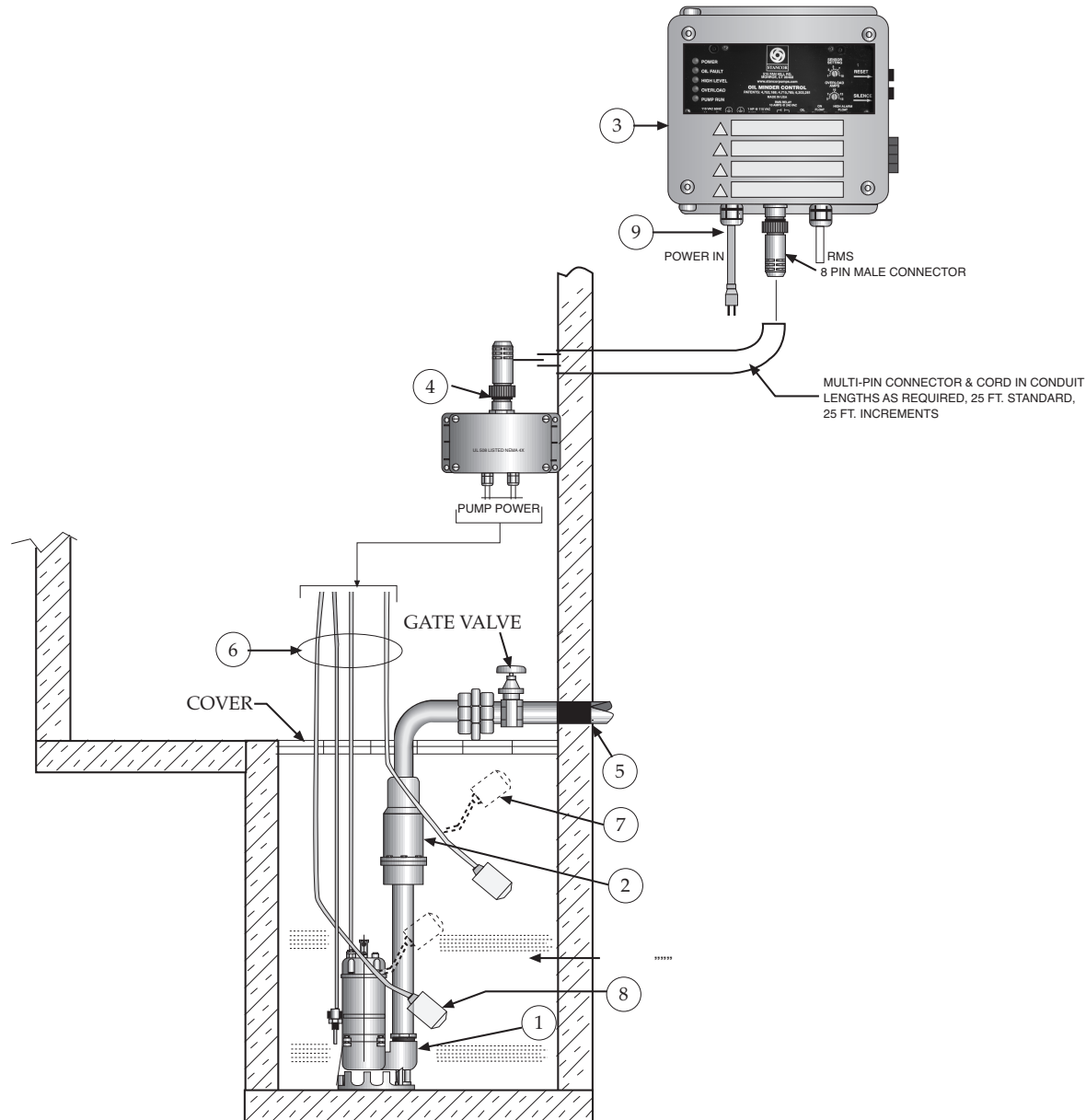
The Stancor Oil-Minder® Control and Pump System allows water to be automatically pumped from elevator pits, transformer vaults, and industrial sumps without danger of ejecting potentially harmful oily substances into sewers, rivers and waterways. There is no need for a separate oil-water separator. The product is engineered for efficient and trouble free pumping, even under the most severe conditions. The Stancor Oil-Minder® System is the overwhelming choice among design engineers and compliance authorities worldwide, and has a proven record for protecting valuable equipment and the environment.

Features

- NEMA 4x weathertight corrosion resistant enclosure
- Stainless steel sensor probe with patented electronic technology that repels dirt contamination
- Single direct plug-in power source for operation of entire system
- Solid state components
- Alarms, lights, silence switch, and remote monitoring circuit for oil, high liquid, and high amperage conditions
- Solid state "push to test" switch conveniently performs all pump and control diagnostic tests
- Complete factory assembly and testing insures quality of entire pump and control system
- Patented - Pat. #4,715,785, #4,752,188, #6,203,281 and others pending
- 115 Volt
- LED indicator lights for oil spill, power, high liquid level, overload, and pump run
- UL 508

"There Is Only One Oil-Minder® System and Stancor Makes It"
Quality You Can Believe In

Typical Stancor Simplex Multi-Option Oil-Minder® System



1. Stancor Model SE-50 submersible effluent pump .5 HP, 115 volt, 3600 RPM, 2" discharge connection
2. Check valve (2")
3. Stancor Oil-Minder 115V, 1Ø control system with built-in audible and visual alarm when pump does not run due to oil in pit or high liquid or high amperage condition. Provide silencing button for audible alarm built into panel. Panel shall have two contacts for a remote alarm location (one each for oil and high water or amperage alert). Junction box will be provided with multi-pin connector and cord in lengths as required, 25 ft. standard, optional 25 ft. increments.
4. Junction box will be provided with multi-pin connector and cord in lengths as required; 25 ft. is standard, optional 25 ft. increments available up to 250 ft.
5. All buried pump pressure discharge piping shall be protected with tapecoat CT corrosion protection tape
6. Pump cable, probe cable, high liquid alarm cable, and pump "on" float cable (16 ft. lengths)
7. High liquid alarm float with clamp device to mount to pump discharge piping
8. Pump On float
9. Power cord and molded ground plug (6 ft. length)

ITEMS 1, 2, 3, 4, 6, 7, 8 AND 9 PROVIDED BY STANCOR AS A STANDARD PACKAGE

**STANCOR**

Technical Data

SB Series Model:SB-20

Rev:1

Date:2/18/15

Motor Specifications, 60Hz:

Motor Design: Induction**Motor Type:** Enclosed Submerisible**Insulation Class:** E**Motor Protection:** Thermal**Bi-Metallic Temp Trip:** 110°C**Service Factor:** 1.15**Voltage Tolerance:** +-10%**Approvals:** CE

Motor Data, 60Hz:

Model Pump	Phase	Output Power BHP	Volts	Full Load AMPS	Locked Rotor AMPS	NEMA Code Letter	Power Factor at 100% Load	Motor Efficiency 100% Load	Pole/Speed (RPM)
SB-20	Phase 1: 115	0.13HP	115	2.3	4.1	C	98.92%	61.5%	2/3450
	~~Phase 1: 230~~	~~0.13HP~~	~~230~~	~~1.2~~	~~1.9~~	~~B~~	~~93.95%~~	~~60%~~	~~2/3450~~

Materials of Construction

Volute: Cast Iron (FC 200)**Upper Lid:** PA66+Glass Fiber**O-Rings:** NBR**Motor Shaft:** Stainless Steel (SUS 410)**Motor Housing:** Stainless Steel**Upper Bearing:** Single row double sealed | **Lower Bearing (s):** Single row doubled sealed**Upper Shaft Seal:** CA/CE | **Lower Shaft Seal:** CA/CE**Impeller:** ABS+Glass Fiber

Dimensions, Weight, and Misc.

Pump Weight (LBS): 11 | **Max Height:** 10.24 | **Max Width:** 6.85**Max Submergence (FT):** 33' (10m)**Discharge Size:** 1.5" or 2" female NPT vertical**Maximum temp. of pumped fluid:** 104°F (40°C)

Cable Specifications

Model Pump	Phase/Volts	Power Cable-Quantity Type	Length (FT)	Outer Jacket
SB-20	1Ø-115V	SJTOW 16/3	16' (5m)	NBR
	~~1Ø 230V~~	~~SJTOW 16/3~~	~~16' (5m)~~	~~NBR~~

Power cable suitable for all standard voltage listed in "Motor Data" section.



Performance Curve

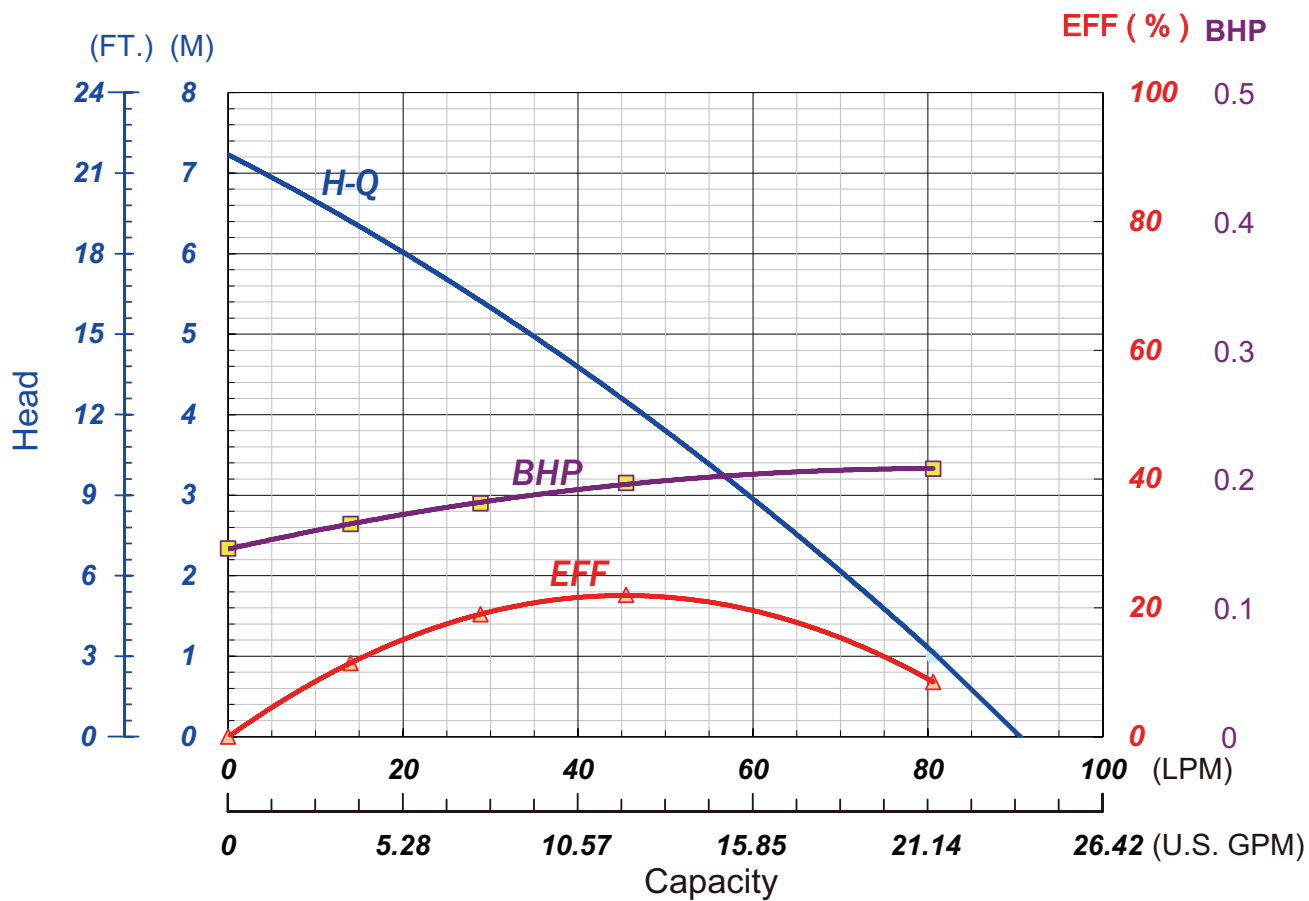
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SB-20 performance Curve

Horse Power: 0.1HP
Hertz: 60HZ





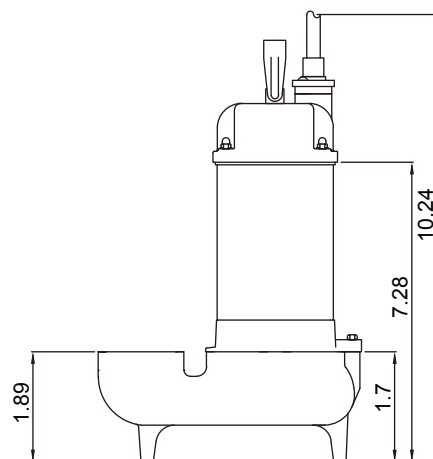
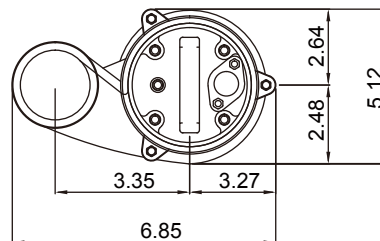
Dimension Data

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SB-20 Dimensions



Unit:Inch