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OIL SENTINEL BC100 SERIES

60HZ-ANSI

2" FULL FREE PASSAGE SUBMERSIBLE SEWAGE PUMP



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60HZ BC SERIES

MOTOR / PUMP SPECIFICATIONS

	ITEM	DESCRIPTION						
LIMITS	Liquid Temp	0~40°C						
LIMITS	Application	Commercial / Industrial / Municipal use						
	Frequency	60Hz						
	Motor	2P (3450RPM) Dry Motor						
	Insulation	Class B						
	Start Method	Direct On Line						
TYPE	Protection	IP 68						
	Protector	Auto-Cut						
	Bearing	Ball Type						
	Mech. Seal	Dual. Mechanical Seal						
	Impeller	Vortex Impeller						
	Motor Cover	0.5~1HP:PA66+30GF; 1.5~2HP: ASTM A48 Class 30						
	Motor Housing+Stator	AISI 304						
	Shaft with Rotor	AISI 410						
MATERIAL	Mech. Seal	Upper: CA/CE; Lower: SIC/SIC						
	Pump Casing	ASTM A48 Class 30						
	Impeller	ASTM A48 Class 30						
	Cable	H07RN-F / SJTOW / STOW						



MOTOR / PUMP DATA CHART

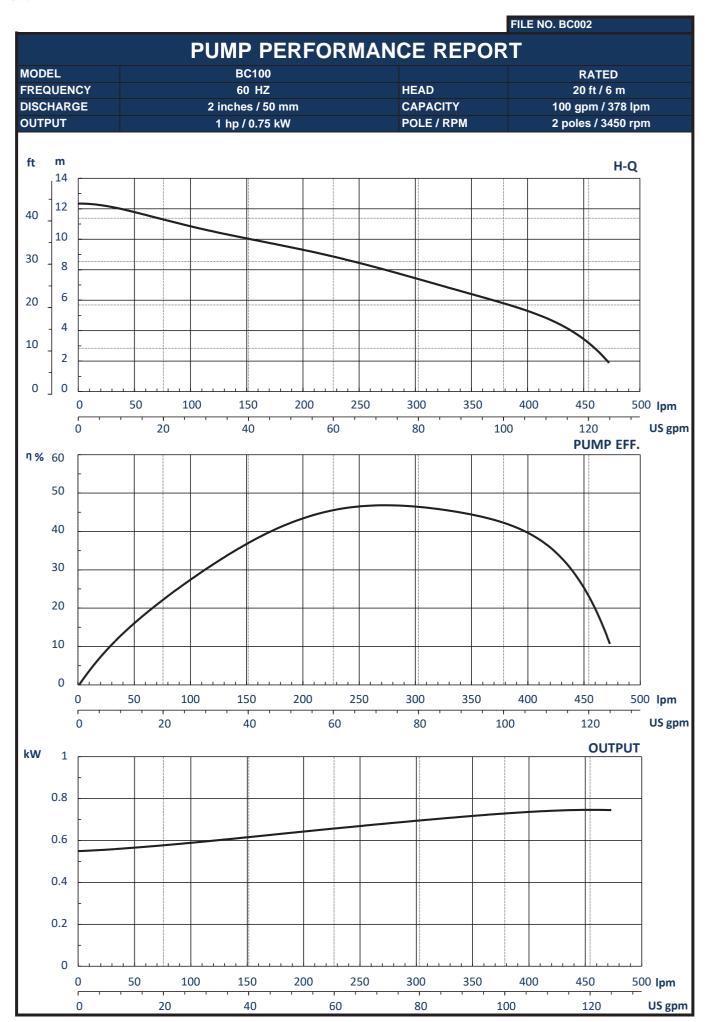
MODEL	OUT	ΓΡUT	DISCHARGE	PHASE		FREE PASSAGE	WEIGHT W/O CABLE		
	HP	KW	INCHES	VOLTAGE	115V	208V	230V	INCHES	LBS
BC50/1	0.5	0.37	2		9A	5A	4.5A	2	29
BC75/1	0.75	0.55	2	FULL	11A	6A	5.5A	2	31
BC100/1	1	0.75	2	LOAD AMPS	14A	7.7A	7A	2	34
BC150/1	1.5	1.1	2		18.6A	10.3A	9.3A	2	53
BC200/1	2	1.5	2		-	11.6	10.5A	2	55

MODEL	OUT	ГРИТ	DISCHARGE	PHASE		FREE PASSAGE	WEIGHT W/O CABLE		
	HP	KW	INCHES	VOLTAGE	208V	230V	460V	INCHES	LBS
BC50/3	0.5	0.37	2	FULL LOAD AMPS	3.3A	3A	1.5A	2	29
BC75/3	0.75	0.55	2		4A	3.6A	1.8A	2	31
BC100/3	1	0.75	2		5.6A	5A	2.5A	2	34
BC150/3	1.5	1.1	2		6.9A	6.2A	3.1A	2	53
BC200/3	2	1.5	2		7.7A	7A	3.5A	2	55

MOTOR / PUMP CONSTRUCTION MATERIAL

PART	MATERIAL
Cable	H07RN-F/STJOW/STOW
Handle	Nylon 6
Motor Cover	PA66+30GF (0.5~1HP)
Motor Cover	ASTM A48 Class 30 (1.5~2HP)
Bracket	ASTM A48 Class 30
Motor Housing + Stator	AISI 304
Shaft with Rotor	AISI 410
Oil Chamber	ASTM A48 Class 30

Upper: CA / CE
Opper. CA7 CL
Lower: SIC / SIC
ASTM A48 Class 30
BUNA N
ASTM A48 Class 30
ASTM A48 Class 30
NTN/TPI

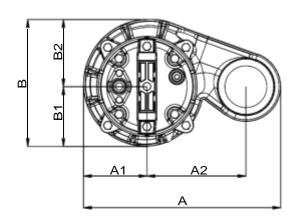


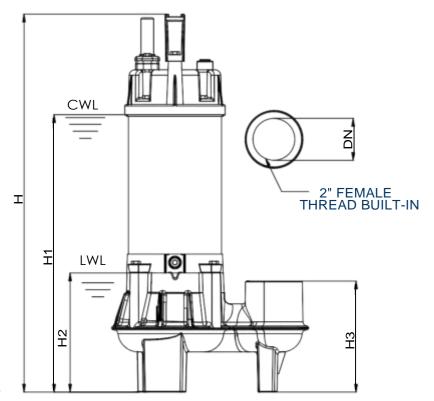


60HZ BC SERIES

DIMENSIONAL DRAWING

MODELS: BC50 - BC200 (0.5 - 2HP) THREADED DISCHARGE





DIMENSIONS: INCHES

WEIGHT: LBS

PIPE CONNECTION TYPE: NPT

MODEL	Α	A1	A2	В	B1	B2	DN	Н	H1	H2	Н3	WT
BC50	10.24	3.50	4.92	6.70	3.54	3.15	2	18.35	13.23	5.94	5.55	28.40
BC75	10.24	3.50	4.92	6.70	3.54	3.15	2	18.98	13.86	5.94	5.55	30.60
BC100	10.24	3.50	4.92	6.70	3.54	3.15	2	19.53	14.41	5.94	5.55	34.00
BC150	10.71	3.66	5.12	7.36	3.43	3.94	2	19.92	14.80	5.94	5.63	53.24
BC200	10.71	3.66	5.12	7.36	3.43	3.94	2	20.47	15.59	5.94	5.63	55.44

CWL: CONTINOUS RUNNING WATER LEVEL LWL: LOWEST RUNNING WATER LEVEL

WT: WEIGHT WITHOUT CABLE

BOESCH OIL SENTINEL



The Boesch Oil Sentinel is used in elevator sump pits to remove water while retaining oil and other hydrocarbons. The Boesch Oil Sentinel is a UL listed system.



Control Panel





Remote Alarm

Preset Level Sensor

KEY FEATURES

ONE SENSOR

One preset level sensor for easy installation.

REMOTE ALARM

A remote alarm is included with the Oil Sentinel. Includes auxiliary contacts for High Oil, High Water and Pump Overload (on overload models).

MULTIPLE INDICATOR LIGHTS

Power On, Pump Run, High Water, High Oil and Pump Overload (on overload models).

ASME A17.1 COMPLIANT

WORKS WITH AUTO DIALERS OR BAS



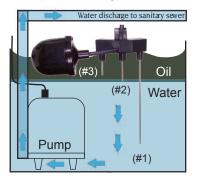
(Building Automation Systems)

OPERATION OF DISCHARGE

Water and oil fill the elevator sump pit. As the sump is filling, the oil will float on top of the water. This layer of oil will not be pumped from the tank. The water underneath the oil will be pumped out through the discharge pipe to the sewer or other proper disposal area.

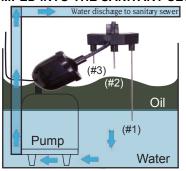
1. WATER RISES & PUMP TURNS ON

When the water reaches probe (#2) the system will turn on and pump the water out of the sump.



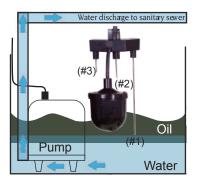
2. WATER IS REMOVED/OIL CONTAINED

As the water is being pumped from the sump pit, the oil will remain floating on top of the water. THE OIL WILL NOT BE PUMPED INTO THE SANITARY SEWER



3. PUMP TURNS OFF

When the water is pumped below probe (#1) the pump will turn off.



PRESET LEVEL SENSOR AND CONTROL PANEL OPERATION



- ▶ When water touches probes (#1) and (#2) the pump will turn on.
- If the pump can not keep up, loses power or fails the water will reach probe (#3). The "High Water" light will illuminate on the control panel and the remote alarm will activate.
- If the water continues to rise the float switch will activate. If the float switch is activated and probe (#3) is touching water the "High Water" alarm will remain on. If OIL is touching probe (#3) and the float switch is activated, the "High Oil" light will illuminate and the remote alarm will activate.

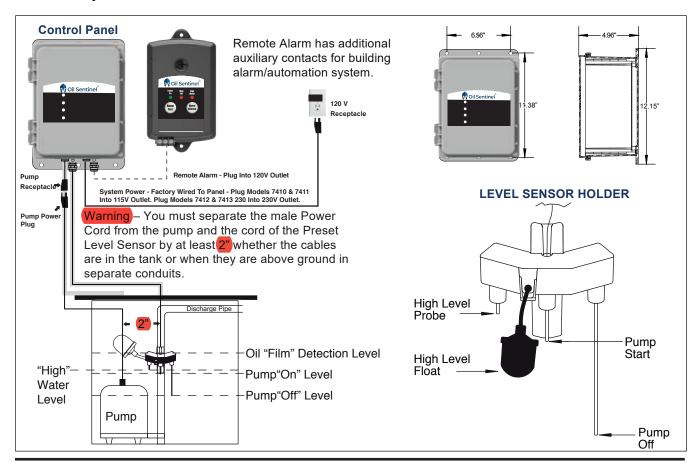


OIL SENTINEL CONTROL / ALARM SYSTEM



DESCRIPTION OF OPERATION

On liquid rise, level reaches pump "Start" probe to start the pump. The pump will remain on until level is below "Off" probe. The "Off" probe senses air or oil and turns the pump off so the oil layer will not be pumped out of the tank. If the level reaches high level probe and high level float, the system will differentiate between water and oil and activate the remote alarm.



SPECIFICATIONS

Sensor

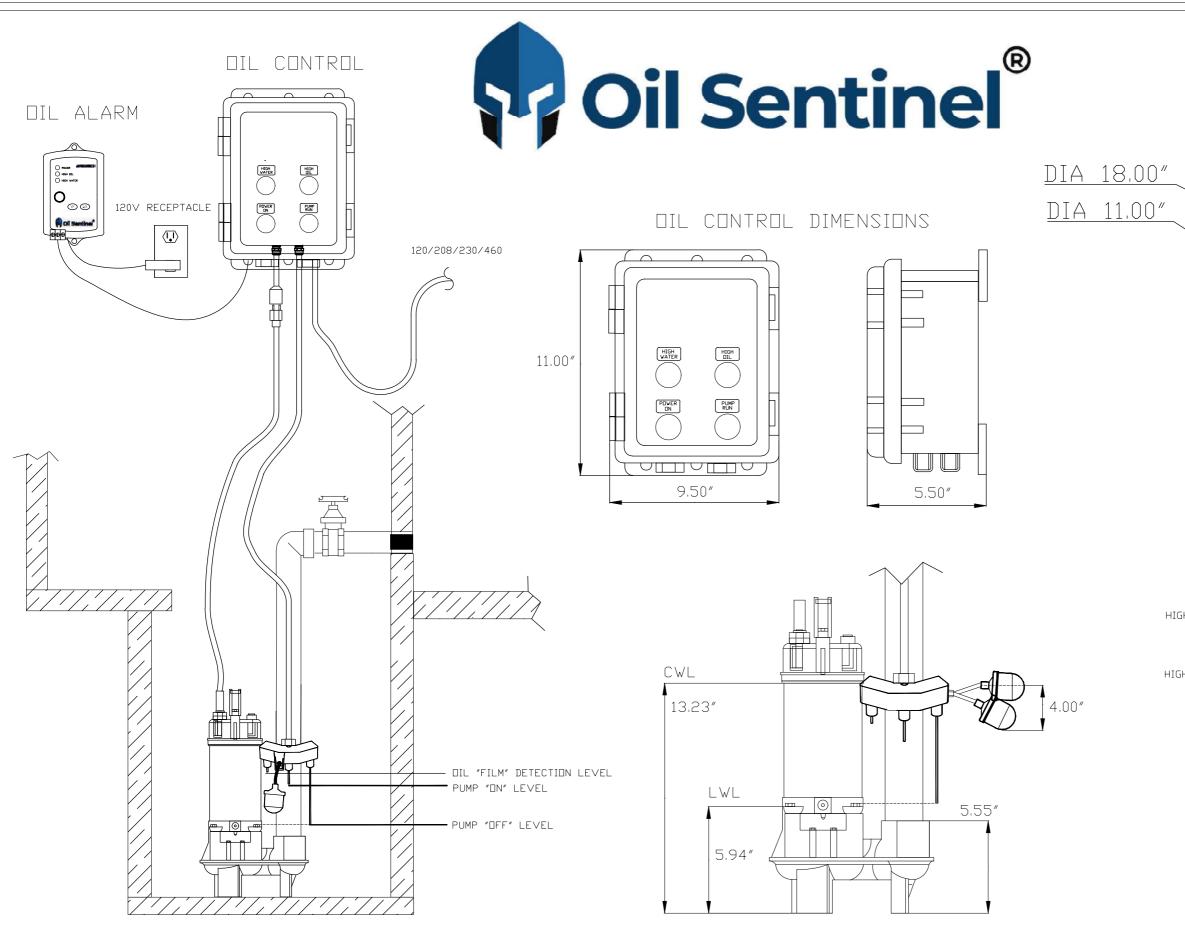
- Housing: ABS
- Probe: Stainless Steel
- Float: PVC

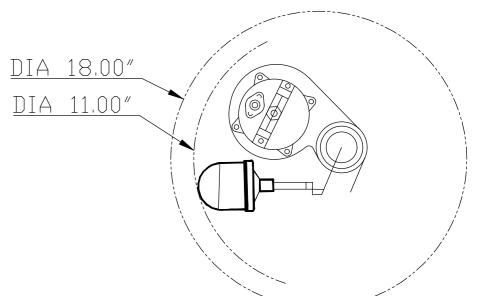
Control Panel

- Enclosure: Type 1
- ▶ Power Cord: 6' SJT, 120 VAC
- ▶ Receptacle: 6" SJT, 120 VAC, 15 Amp

Alarm Panel

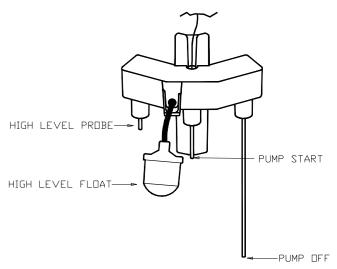
- Enclosure: Type 1
- ▶ Power Cord: Plug in transformer, 120 VAC
- ▶ Backup Power: 9 VDC battery backup
- LED Alarm Indicators
- Audible Alarm: 103 db buzzer, auto/test rest
- ▶ Auxiliary Contact: High Water, High Oil, Optional Pump Fail





LEVEL SENSOR HOLDER

PUMP TOP VIEW



MBOESCH

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BOESCH DIL SENTINEL

Revisi	on notes:][
Rev:	Date:	Notes:	
Α	06/15/21	PROJECT	
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Drawn by: Project: C.Grajeda Client:

BOESCH

Drawing Title: OIL SENTINEL

XXXX Revision:

Date:

06/14/2021

Scale @ A3: