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OIL SENTINEL BT300 SERIES

60HZ-ANSI

2" FULL FREE PASSAGE SUBMERSIBLE SEWAGE PUMP



BOESCH PUMPS LLC

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60HZ BT 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					
TYPE	Insulation	Class B					
	Start Method	Direct On Line					
	Protection	IP 68					
	Protector	Auto-Cut					
	Bearing	Ball Type					
	Mech. Seal	Dual. Mechanical Seal					
	Impeller	Vortex Impeller					
	Motor Cover	AISI 316					
MATERIAL	Motor Housing+Stator	AISI 316					
	Shaft with Rotor	AISI 316					
	Mech. Seal	Upper: CA/CE; Lower: SIC/SIC					
	Pump Casing	AISI 316					
	Impeller	AISI 316					
	Cable	H07RN-F / SJTOW / STOW					



MOTOR / PUMP DATA CHART

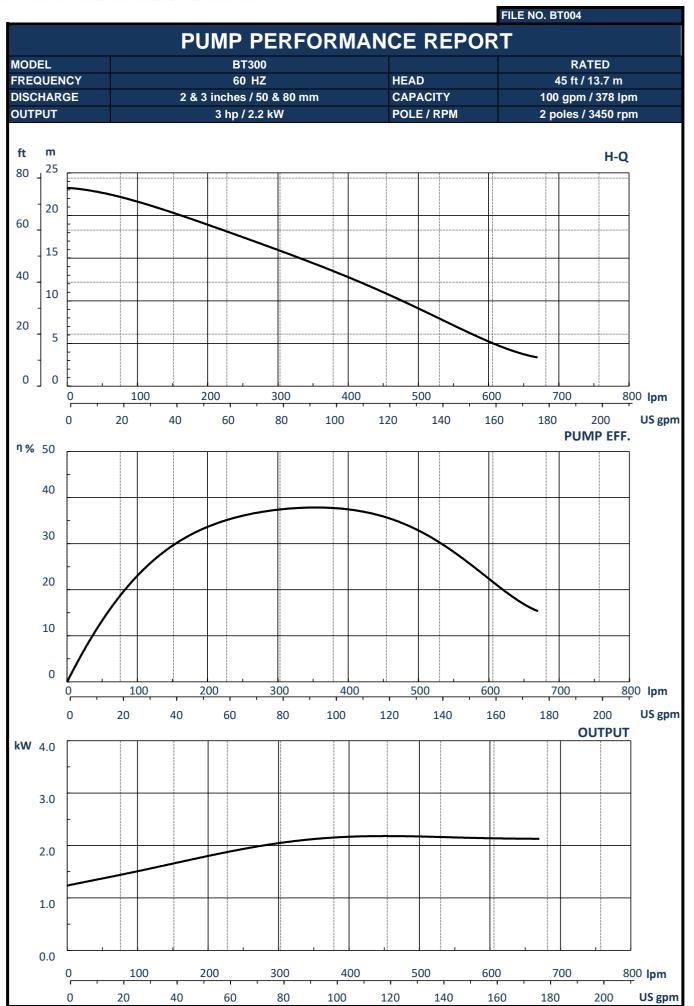
MODEL	ΟŪ	TPUT	DISCHARGE	PHASE		1Ø		FREE PASSAGE	WEIGHT W/O CABLE
	HP	KW	INCHES	VOLTAGE	115V	208V	230V	INCHES	LBS
BT50/1	0.5	0.37	2	FULL LOAD AMPS	8A	4.4A	4A	1.4	29
BT100/1	1	0.75	2		12A	6.6A	6A	1.4	35
BT200/1	2	1.5	2(3)		-	12.2A	11A	1.8	69
BT300/1	3	2.2	2(3)	Aiiii O	-	12.2A	11A	1.8	72

MODEL	ΟU	TPUT	DISCHARGE	PHASE		3Ø			
	HP	KW	INCHES	VOLTAGE	208V	230V	460V	INCHES	LBS
BT50/3	0.5	0.37	2		3.1A	2.8A	1.4A	1.4	28
BT100/3	1	0.75	2		4.4A	4A	2A	1.4	35
BT200/3	2	1.5	2(3)	FULL	7.7A	7A	3.5A	1.8	65
BT300/3	3	2.2	2(3)	LOAD	8.8A	8A	4.5A	1.8	69
BT500/3	4	3.7	3 (4)	AMPS	16.6A	15A	8A	1.8	106
BT750/3	5	5.5	3 (4)		23.2A	21A	10.5A	1.8	119

MOTOR / PUMP CONSTRUCTION MATERIAL

PART	MATERIAL
Cable	H07RN-F/STJOW/STOW
Handle	Nylon 6(0.5-1HP) AISI 316 (2-7.5HP)
Motor Cover	AISI 316
Bracket	ASTM A48 Class 30
Motor Housing + Stator	AISI 316
Shaft with Rotor	AISI 316
Oil Chamber	ASTM A48 Class 30(0.5-1HP) AISI 316(2-7.5HP)

PART	MATERIAL
Mechanical Seal	Upper: CA / CE
Mechanical Seal	Lower: SIC / SIC
Seal Housing	AISI 316
Lip Seal	VITON
Impeller	AISI 316
Pump Casing	AISI 316
Upper/Lower Bearing	NTN/TPI

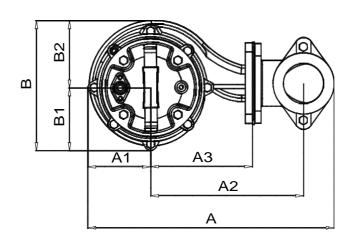


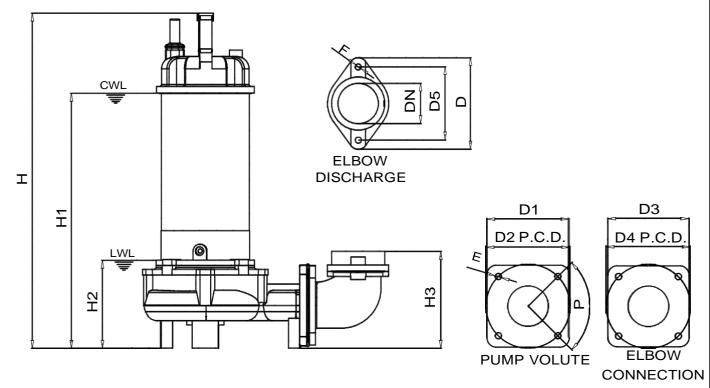


60HZ BT SERIES

DIMENSIONAL DRAWING

MODELS: BT200 - BT300 (2~3HP)





BT200 15.35 4.06 9.25 6.06 8.19 4.09 4.09 5.91 5.20 5.31 5.12 BT300 15.35 4.06 9.25 6.06 8.19 4.09 4.09 5.91 5.20 5.31 5.12	MODEL	Α	A1	A2	A3	В	B1	B2	D	D1	D2	D3
BT300 15.35 4.06 9.25 6.06 8.19 4.09 4.09 5.91 5.20 5.31 5.12	BT200	15.35	4.06	9.25	6.06	8.19	4.09	4.09	5.91			5.12
	BT300	15.35	4.06	9.25	6.06	8.19	4.09	4.09	5.91			5.12

MODEL	D4	D5	DN	E	F	P	Н	H1	H2	H3	W	
BT200	5.31	4.72	2/3	.39	.39	90	20.94	15.75	5.91	5.98	S: 69	T: 65
BT300	5.31	4.72	2/3	.39	.39	90	20.52	17.32	5.91	5.98	S:72	T: 69

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

WT: WEIGHT WITHOUT CABLE

S: SINGLE PAHSE T: THREE PHASE

DIMENSIONS: INCHES

WEIGHT: LBS

PIPE CONNECTION TYPE: NPT

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



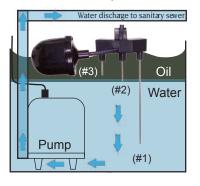
(Building Automation Systems)

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.

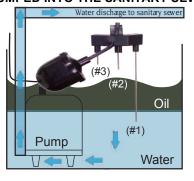
1. WATER RISES & PUMP TURNS ON

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



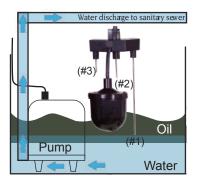
2. WATER IS REMOVED/OIL CONTAINED

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

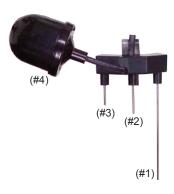


3. PUMP TURNS OFF

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



PRESET LEVEL SENSOR AND CONTROL PANEL OPERATION



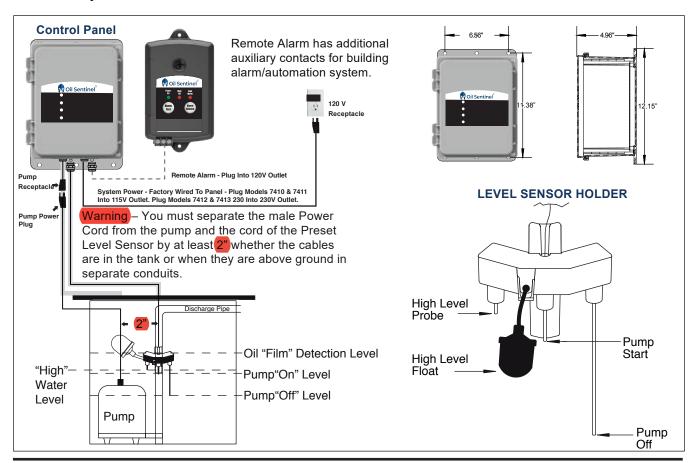
- ▶ When water touches probes (#1) and (#2) the pump will turn on.
- If the pump can not keep up, loses power or fails the water will reach probe (#3). The "High Water" light will illuminate on the control panel and the remote alarm will activate.
- If the water continues to rise the float switch will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

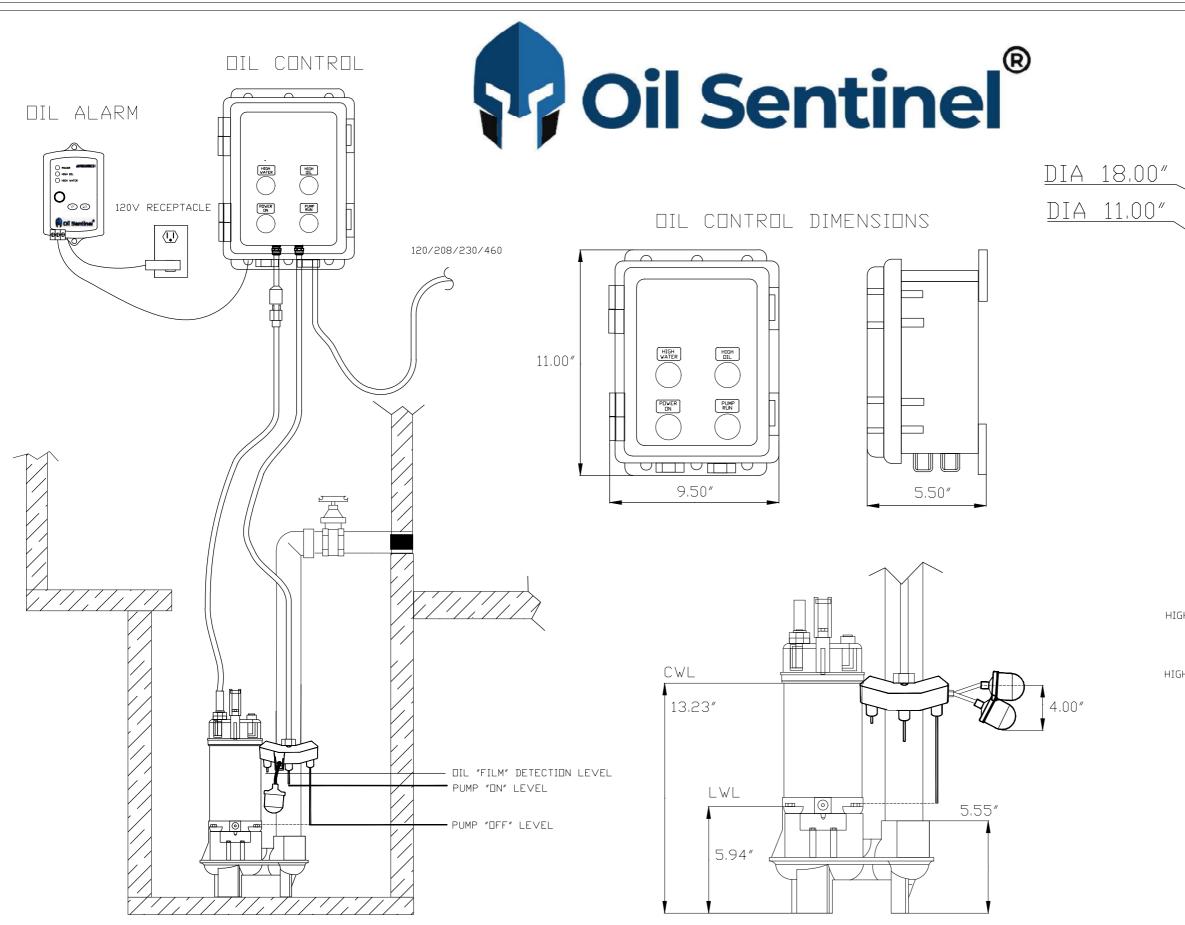
- Housing: ABS
- Probe: Stainless Steel
- Float: PVC

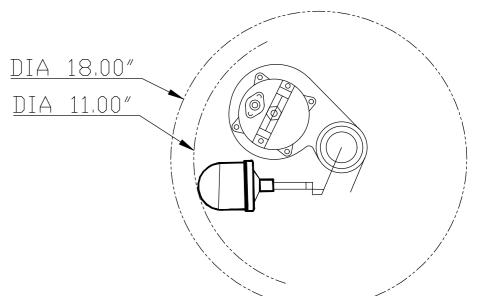
Control Panel

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

Alarm Panel

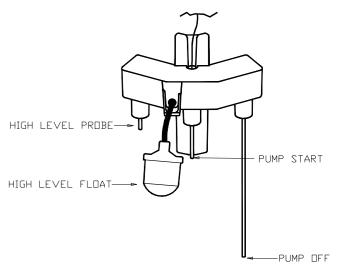
- Enclosure: Type 1
- ▶ Power Cord: Plug in transformer, 120 VAC
- Backup Power: 9 VDC battery backup
- LED Alarm Indicators
- Audible Alarm: 103 db buzzer, auto/test rest
- Auxiliary Contact: High Water, High Oil, Optional Pump Fail





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: