STANCOR Pump & Control Solutions	Oil Minder®	Duplex System, Direct Wired, Tethered Floats
Dwg: DS-B02-007	**Rev: 1**	**Date:** 8/17 **Series:** AHS

The Stancor Oil-Minder® Duplex Control and Pumps System is designed and approved for safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and other applications where oil and water must be detected.

The Stancor Oil-Minder® Duplex system will activate the pumps to remove water from elevator pits in accordance with ASME A17.1, and will provide pumping of water only, even if an oil condition is detected.

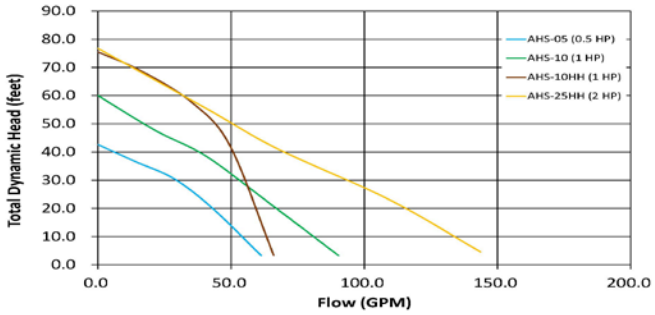
The Stancor Oil-Minder® Duplex cycles the pumps only in the water range. Oil and other harmful substances are not discharged into the environment. An alarm is activated in the event of a high water condition or high oil condition.

Oil-Minder® Description of Operation

As the liquid level rises in the sump, the pump ON float starts the pump provided the sensor probe detects water.
The pump runs until the liquid level drops and the probe no longer senses water.
Any oil layer will not be pumped out of the sump.
If the water level rises in the sump and reaches the high alarm float, pump B and an alarm is activated.
The pumps will continue to run until the liquid drops back to the minimum level.
If the sensor detects oil, the pumps will stop and the oil will be contained.

The Stancor Oil-Minder® Duplex Control and Pumps System are designed to alternate pumps, to prevent wear on one single pump.

Performance Curve



Features:

- NEMA 4x weathertight corrosion resistant polycarbonate enclosures
- 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 as well as many custom options are available.
- 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.
- Oil-Minder® Duplex System can be combined with a variety of different pumps and valves.
- 115V, 208V or 220V (1 phase).
- 208/230V or /460/575V (3 phase).
- LED indicator lights for oil spill, power, high liquid level, overload and pumps run.
- UL 508 and 778 approved.
- Compliant with ASME A17.1 Elevator Code.

Electrical Data

Model	Phase	BHP	Volts	FLA	LRA	NEMA Letter	Pole/Speed (rpm)	Pump Weight	Discharge
AHS-05	1	0.5	115	7.0	35.0	K	2/3450	26lbs (12kg)	2"NPT Female Vertical
	1	0.5	208	3.9	19.50	K	2/3450		
	1	0.5	230	3.5	17.50	K	2/3450		
	3	0.5	208	1.8	9.0	H	2/3450		
	3	0.5	230	1.6	8.0	H	2/3450		
	3	0.5	460	1.0	5.0	J	2/3450		
	3	0.5	575	0.8	4.0	J	2/3450		
AHS-10/ AHS-10HH	1	1.0	115	12	60.0	H	2/3450	33lbs (14kg)	2"NPT Female Vertical
	1	1.0	208	6.6	33.0	H	2/3450		
	1	1.0	230	6.0	30.0	H	2/3450		
	3	1.0	208	3.7	18.5	H	2/3450		
	3	1.0	230	3.4	17.0	H	2/3450		
	3	1.0	460	2.0	10.0	J	2/3450		
	3	1.0	575	1.7	8.5	K	2/3450		
AHS-25HH	1	2.0	208	14.3	71.50	J	2/3450	42lbs (19kg)	2"NPT Female Vertical
	1	2.0	230	13	65.00	J	2/3450		
	3	2.0	208	7.4	37.00	H	2/3450		
	3	2.0	230	6.7	33.50	H	2/3450		
	3	2.0	460	3.3	17.50	H	2/3450		
	3	2.0	575	2.7	13.50	H	2/3450		

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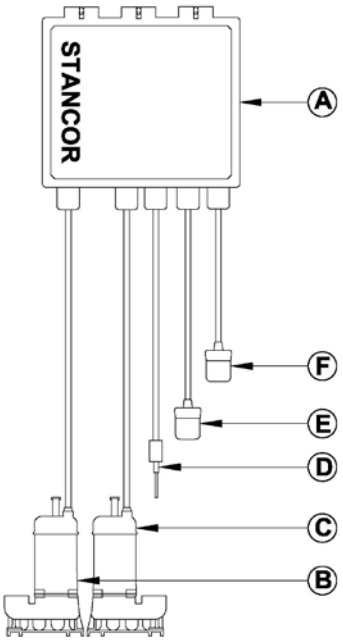
Construction

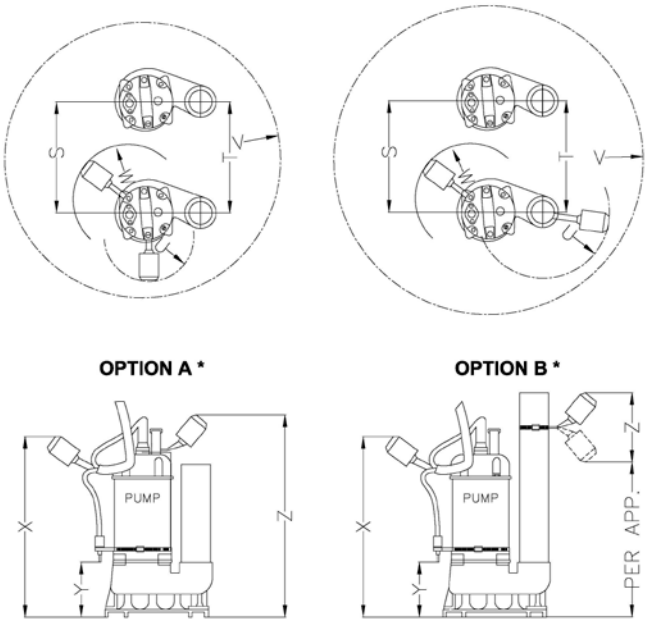
Motor Design	Induction	**Motor Housing**	Stainless Steel
Motor Type	Enclosed submersible	**Volute**	Cast Iron
Insulation Class	Class B	**External Hardware**	Stainless Steel
Motor Protection	Bi-metallic Thermal Switch	**O-Rings**	Nitrile (Buna N)
Bi-Metallic Temp Trip	120° C ± 5° C	**Motor Shaft**	Stainless Steel
Max Fluid temp	104°F (40°C)	**Impeller**	Hytrel
Upper Shaft Seal	carbon/ceramic	**Lower Shaft Seal**	Sic/Sic

Configurations



Item	Description
A	Control Panel
B	Pump A
C	Pump B
D	Oil Probe
E	ON Float
F	High Float

Installation Dimensions



Item	Description
S	Min. Pump Dist.**
T	Min. Fitting Dist.***
U	High Float Radius
V	Min. Sump ø
W	ON Float Radius
X	Pump ON
Y	Pump OFF
Z	High Alarm

*** See OM Configuration Sheet for specific option and dimensions.**

****Minimum distance required for proper pump performance.**

*****Fitting dimensions are based on ANSI/ASME B16.3 standards.**

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