

# STANCOR



# Oil-Minder® Simplex & ~~Duplex~~ Pump and Control Systems



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 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
- 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
- Oil-Minder® System can be combined with a variety of different pumps and valves
- Choice of: ~~115v~~ or ~~220v~~ (1 phase) OR ~~230v~~ / ~~460v~~ / ~~575v~~ (3 phase)
- LED indicator lights for oil spill, power, high liquid level, overload, and pump run
- ~~UL 508~~
- ~~ENTECLA tested~~

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

## Description of Stancor Simplex Oil-Minder® Systems

The Stancor Simplex Oil-Minder® System is available in two primary configurations, as follows:

The J-Box and Disconnect Option Oil-Minder® System is designed for easy, fool-proof installation. All control cables are factory wired into a wall mountable NEMA 4X junction box. Between the junction box and the main Oil-Minder® control panel is a field installed conduit. This conduit allows the electrical cables between the junction box and control panel to be run up to 250 feet long. Stancor 8 pin cable may be used in lieu of conduit where approved. A separate pump disconnect can be used to accept the pump power cable and an additional conduit run to the main control as well.

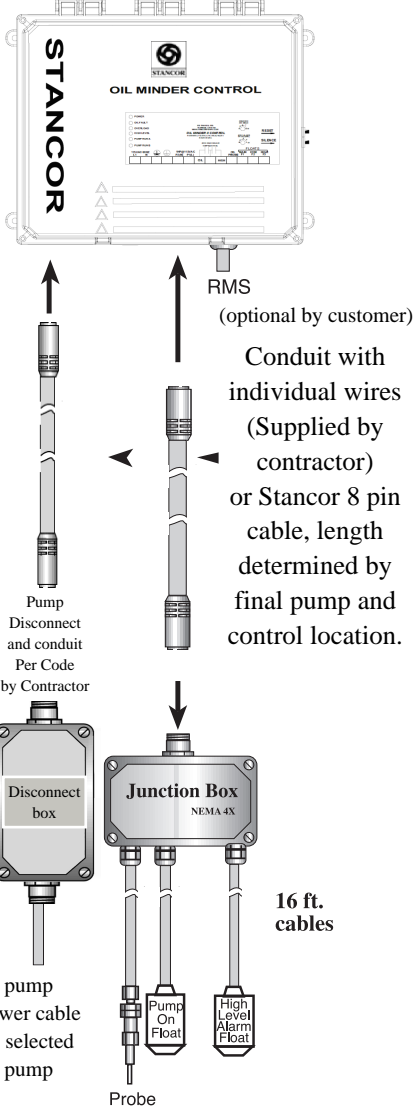
The Junior Oil-Minder® System is a good choice where the main control is located in the same area as the pump pit, or where the main control will be located remotely and components require direct factory wiring to the main control. Comparative features of each model are as follows:

Feature included in standard package	O/M J-BOX OPTION	<del>O/M "JR" DIRECT WIRE</del>
Solid state NEMA 4x control panel	x	x
Separate LED indicator lights on NEMA 4x control for A) oil alert, B) high water, C) high motor amps, D) power to system, and E) pump activation	x	x
Self cleaning, hermetically sealed stainless steel oil detection probe (patented technology)	x	x
Float switches for pump activation and high water alert	x	x
Separate oil and water monitoring relays for alert conditions at remote locations	x	x
High decibel, water tight horn and silence switch for alert conditions	x	x
Direct plug-in activation of entire pump and control system from the main control panel (6' cord and molded plug included)	x	x
Factory hard wiring of pump, oil probe, and floats into NEMA 4x junction box	x	
Factory hard wiring of pump, oil probe, and floats directly into main NEMA 4x control panel		x
Junction box with female 8-pin cable receptacle and disconnect	x	
25' 8-pin Quick Connect cable (expandable to 250' with interconnecting extension cables)	x	
Female 8-pin cable receptacle installed in the NEMA 4x control panel	x	
"Push to Test" switch on panel for all pump and control diagnostic functions	x	x

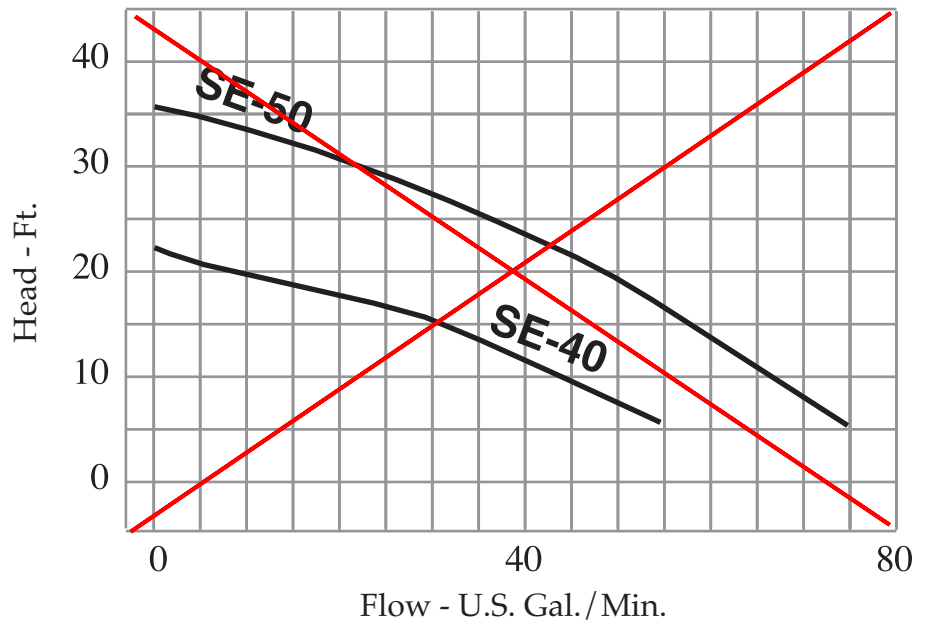
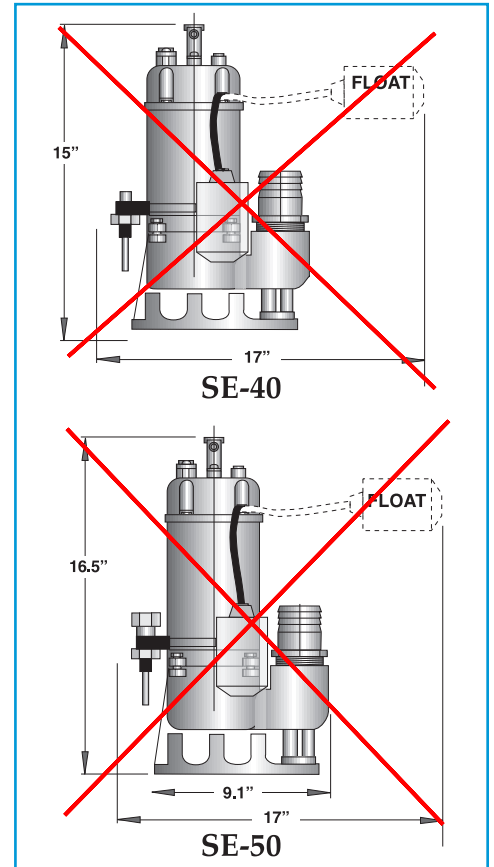
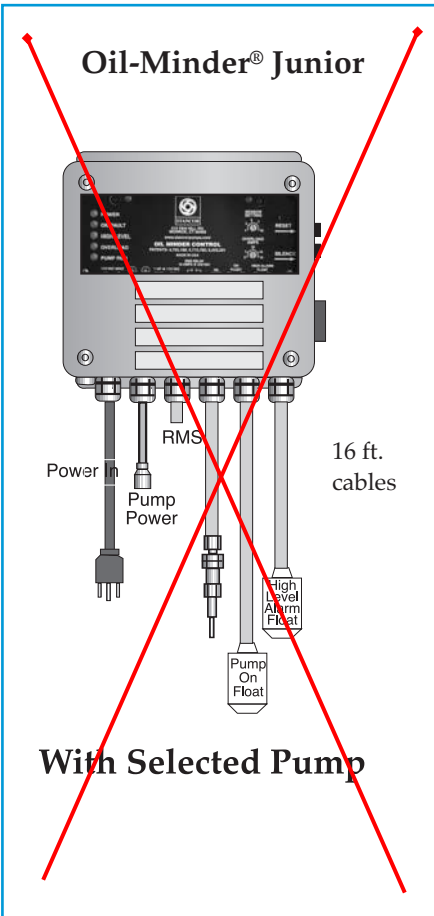
# Stancor Simplex Oil-Minder® Controls

# Standard Pump Selection Chart

**Oil Minder® J-Box option with pump disconnect for three phase applications**



**With Selected Pump**  
SE-200, 460 volt, three phase



**General & Electrical Specifications (Special voltages and pump models available upon request)**

Model	H.P.	Voltage	RPM	Rated Full-Load Amps	Discharge Size	Max Head Ft.	Max Flow GPM
SE50	0.5	115/230 460	3600	8/4	2"	37'	74
SE40	0.4	115	3600	5	2"	22'	64



## Additional Pump Selections

ASME A 17.1 Section 2.2.2.5 (2007) requires that, for each building elevator, the elevator sump pump shall be capable of pumping at least 3,000 gallons per hour. Therefore, after considering vertical lift and pipe friction losses, a larger pump selection may be necessary for certain projects.

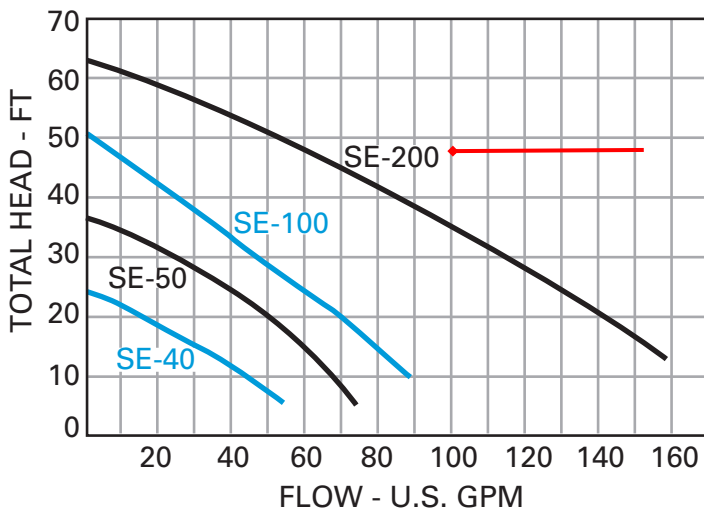
No matter what the pump capacity requirement may be, Stancor has an Oil-Minder® System that will do the job.

Please refer to the chart below for additional commonly specified pump selections. Stancor manufactures pumps up to 75 HP, details of which can be found at [www.stancorpumps.com](http://www.stancorpumps.com).

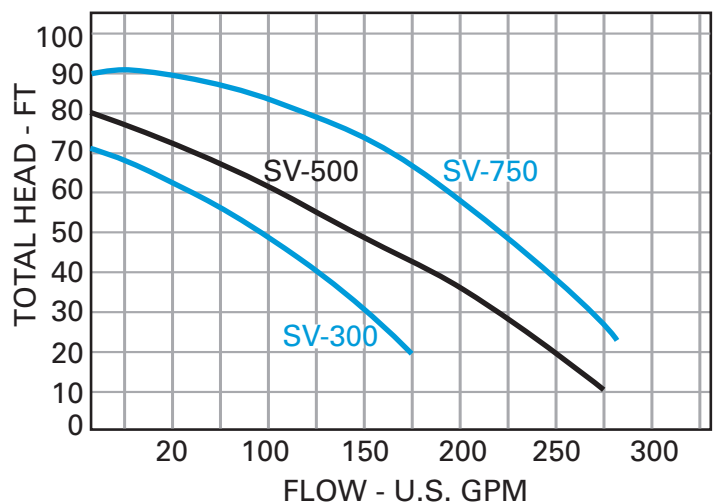
Specifications Pump & System Model	Output		Discharge		Rated		Cable Length (ft)
	HP	Voltage	Amps	In.	Max. Head (ft)	Max. Capacity	
SE-40 O/M	4/10	115	5	2"	22	64 GPM	16
SE-50 O/M	1/2	115/220/460	8/4/2	2"	37	74 GPM	16
SE-100 O/M	1	115/220/460	14/7/3.5	2"	50	100 GPM	33
SE-100HH O/M	1	115/220/460	16/8/4.5	2"	80	80 GPM	33
SE-200 O/M	2	220/230/460	12/10/5.5	2" (3")	62	172 GPM	33
SV-300 O/M	3	230/460	9/5.2	3" (4")	70	210 GPM	33
SV-500 O/M	5	230/460	15/8.6	3" (4")	80	280 GPM	33
SV-750 O/M	7.5	230/460	22.5/12.8	3" (4")	90	330 GPM	33

1. Guiderail systems are available for all Stancor pumps
2. Elbow with female threaded connection provided, standard
3. 208V available as special order
4. Models up to 7 amps are available with 8-pin quick connect cable and standard on all "O/M Multi-Option" Systems

### Series SE Performance Curves



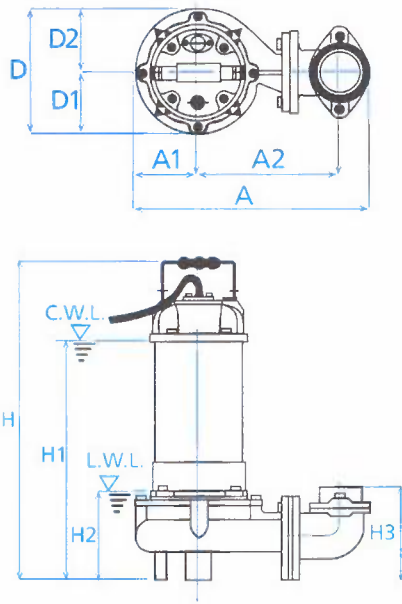
### Series SV Performance Curves



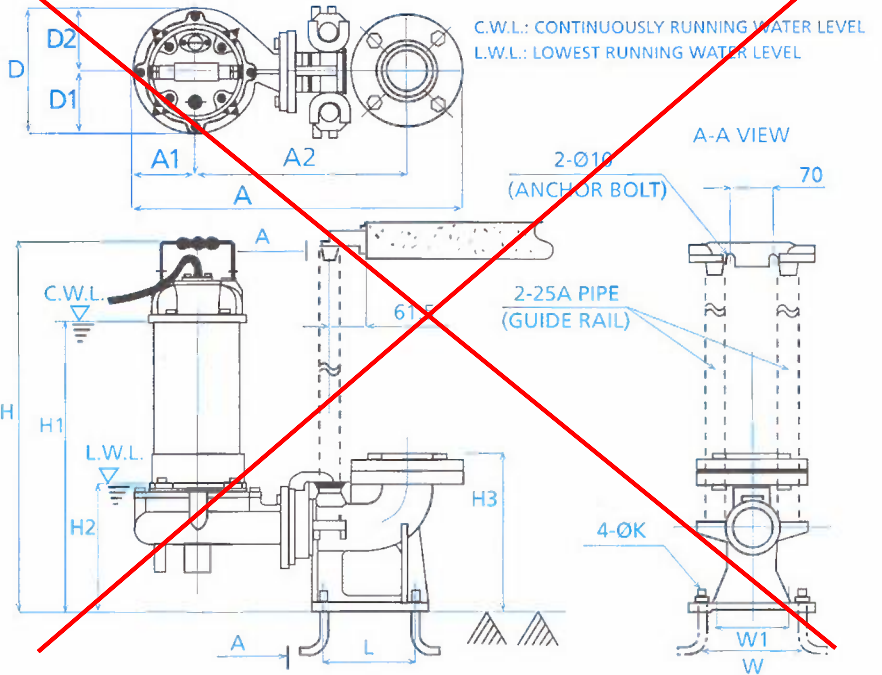
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## DIMENSION DRAWING

### Standard Freestanding Type



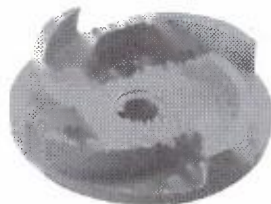
### Optional Guiderail Type



DIMENSION TABLE			DIMENSION (mm)													
G/R TYPE	PUMP TYPE	OUTPUT HP	A	A1	A2	D	D1	D2	H	H1	H2	H3	L	W	W1	
N/A	Freestanding	0.5	223	70	115	132	63	69	395	338	125	156	-	-	-	
N/A	Freestanding	1	223	70	115	132	63	69	425	368	125	156	-	-	-	
N/A	Freestanding	2	390	103	235	210	105	105	530	400	150	155	-	-	-	
N/A	Freestanding	3	390	103	235	210	105	105	550	420	150	155	-	-	-	
N/A	Freestanding	5	525	125	295	250	117	133	635	520	200	275	-	-	-	
N/A	Freestanding	7.5	525	125	295	250	117	133	675	560	200	275	-	-	-	
G/R 200	Guiderail	1	475	80	300	165	77	78	490	390	190	267	150	180	100	
G/R 200	Guiderail	2	550	103	350	210	105	105	600	470	216	360	150	180	100	
G/R 200	Guiderail	3	550	103	350	210	105	105	620	490	216	360	150	180	100	
G/R 750	Guiderail	5	690	125	460	250	117	133	730	585	265	360	230	250	250	
G/R 750	Guiderail	7.5	690	125	460	250	117	133	770	625	265	360	230	250	250	



Tungsten edge  
Cutter Impeller



High Efficiency  
Effluent Impeller



Vortex Non-Clog  
Impeller



Guiderail  
Installation



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