



APEC-SUN

Submersible Pump

Non-Clog Impeller



APPLICATIONS:

- Wastewater lift station.
- Municipal wastewater treatment plant.
- Building wastewater treatment system.
- Animal & poultry farm wastewater treatment system.
- Hospital, school, community, etc. wastewater treatment system.
- Food, paper, mining, textile, leather, chemical industry, etc. wastewater treatment system.
- Water purification system.

FEATURES:

MOTOR

Squirrel-cage, induction motors are F class insulation, motor protection grade is IP68.

NON-CLOG IMPELLER

Well statically & dynamically balanced Non-Clog impeller is designed to allow sizable spherical solids to pass the plow passage easily with out clogging.

It adopts rigorous technics so that vibration and noise can be farthest reduced.

MECHANICAL SEAL

The mechanical seals protect the motor from contacting the pumping liquids. Two ways of the seal are in series with each other and individually work to provide the motor with a dual protection

AUTO-SETTER (OPTIONS)

To allow pump for easy installatin, maintenance & reparation, as it is no need to empty the tank first.

LEAKAGE DETECTOR

Built-in leakage detector in the oil chamber can detect leakage from the damage of the mechanical seal. (less than 15kW options, No less than 15kW standard)

Built-in leakage detector in the wiring box can check if a leakage in it. The leakage detector offers pump an automatic protection. (Not standard, No less than 18.5kW options)

HEAT-PROTECTION

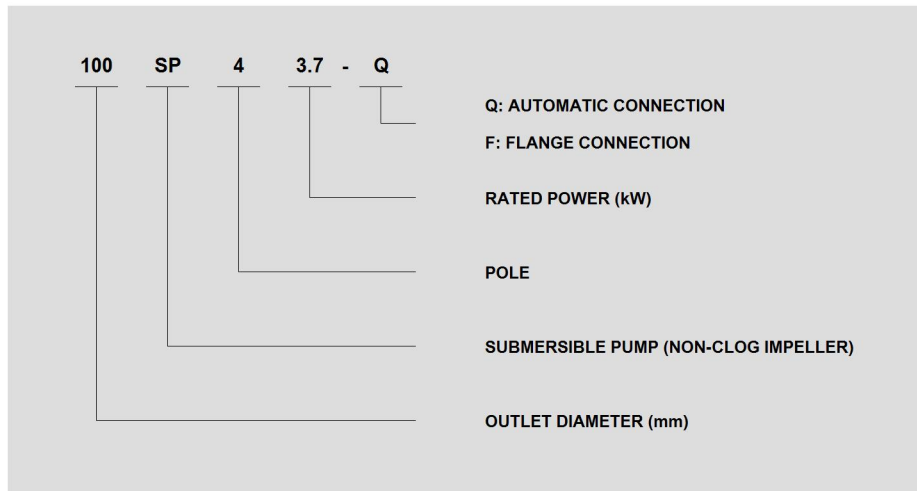
Built-in heat protector in motor, can prevent the motor from burning out, overload & overheating. (Less than 15kW options, No less than 15kW standard)

Built-in heat protector in bearing, when the bearing is abnormal and the temperature rises to disconnecting temperature, the protector automatically cut off power supply to protect hte bearing. (Options)

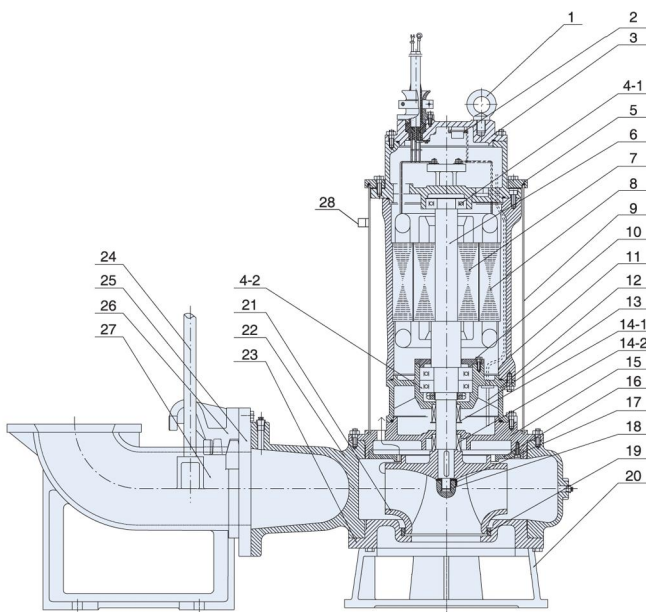
COOLING HOUSE (OPTIONS)

Pumps make use of inner pressure of pump cavity to make liquid continually entering to space between cooling house and motor outer, to make away the heat of the motor (No less than 18.5kW options)

TYPE DESCRIPTION:

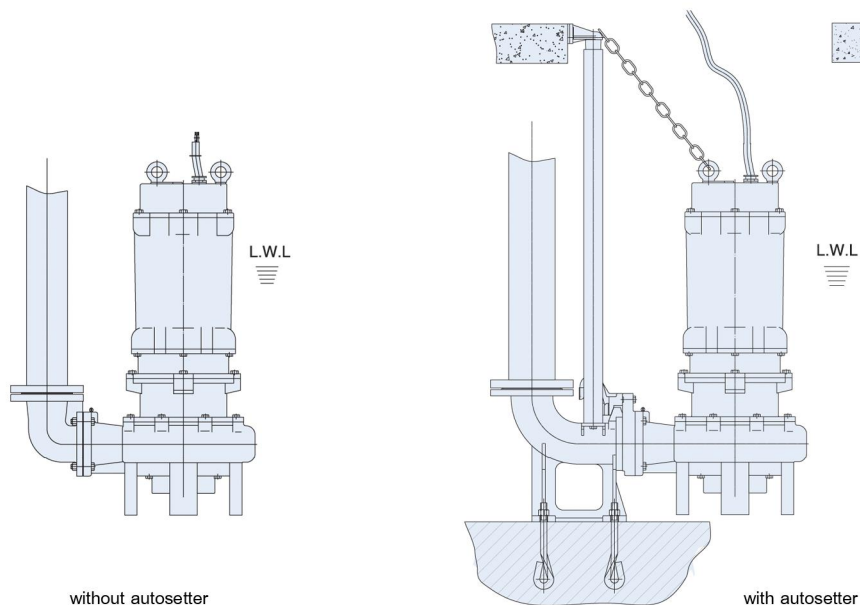


CONSTRUCTION:



NO.	NAME	MATERIAL	NO.	NAME	MATERIAL
1	Neck bolt	SUS420	16	Oil cover	FC200
2	Heat-Protector		17	Washer	SUS304
3	Motor cover	FC200	18	Impeller nut	FC200
4-1	Bearing		19	Seal-ring	LBC2
4-2	Bearing		20	Strainer	FC200
5	Cooling house flange	SS34	21	Impeller	FC200
6	Shaft	SUS420	22	Pump casing	FC200
7	Rotor		23	Bottom cover	FC200
8	Stator		24	Pail piping	SS34
9	Cooling house flange	SUS304	25	Flange setter	FC200
10	Bearing cover	FC200	26	Slide	FC200
11	Motor casing	FC200	27	Duckfoot	FC200
12	Bracket	FC200	28	Discharge	SS34
13	Leak detector				
14-1	Mechanical seal	C-Al ₂ O ₃			
14-2	Mechanical seal	SiC-SiC			
15	Oil box	FC200			

INSTALLATION SKETCH MAP:



PERFORMANCE PARAMETERS:

PUMP MODEL	CONNECTION PART No.		SPEED (r/min)	CAPACITY (m ³ /h)	HEAD (m)	EFF (%)	POWER (kW)	DIA (mm)	WEIGHT (kg)
	Automatic	Flange							
50SP20.4	Q50	F50	2840	7	6	50	0.4	50	32
50SP20.75	Q50	F50	2840	10	10	48	0.75	50	36
50SP21.5	Q50	F50	2840	18	15	60	1.5	50	40
80SP42.2	Q80	F80	1450	40	10	60	2.2	80	70
80SP43.7	Q80	F80	1450	45	15	62	3.7	80	130
100SP43.7	Q100	F100	1450	75	10	70	3.7	100	130
100SP45.5	Q100	F100	1450	95	12	68	5.5	100	208
100SP47.5	Q100	F100	1450	100	15	70	7.5	100	250
150SP47.5	Q150	F150	1450	130	12	70	7.5	150	230
150SP411	Q150	F150	1450	145	15	72	11	150	270
150SP415	Q150	F150	1450	130	22	70	15	150	300
150SP422	Q150	F150	1450	135	30	69	22	150	380
200SP47.5	Q200	F200	1450	250	6	72	7.5	200	230
200SP411	Q200	F200	1450	210	10	70	11	200	270
200SP415	Q200	F200	1450	300	10	72	15	200	300
200SP422	Q200	F200	1450	450	10	72	22	200	480
200SP637	Q200	F200	980	400	24	79	37	200	1280
250SP415	Q250	F250	1450	500	6	71	15	250	460
250SP422	Q250	F250	1450	700	6	73	22	250	650
250SP630	Q250	F250	980	460	13	75	30	250	980
250SP637	Q250	F250	980	500	15	77	37	250	1450
300SP630	Q300	F300	980	600	10	75	30	300	1500
300SP637	Q300	F300	980	750	10	77	37	300	1550
300SP645	Q300	F300	980	1260	8	71	45	300	1280
300SP655	Q300	F300	980	800	15	79	55	300	1650
300SP690	Q300	F300	980	850	22	79	90	300	1800
300SP6110	Q300	F300	990	950	24	80	110	300	2200
350SP630	Q350	F350	980	1000	6	75	30	350	1500
350SP637	Q350	F350	980	1300	6	77	37	350	1550
350SP645	Q350	F350	980	900	10	75	45	350	1650
350SP655	Q350	F350	980	1100	10	75	55	350	1700
350SP675	Q350	F350	980	1100	15	78	75	350	1800
350SP690	Q350	F350	990	1500	15	80	90	350	2000
350SP8132	Q350	F350	740	1085	28	67	132	350	2500
350SP8160	Q350	F350	740	1000	36	61	160	350	2880
400SP675	Q400	F400	990	1500	10	80	75	400	1750
400SP690	Q400	F400	980	2000	10	80	90	400	2200
400SP8132	Q400	F400	740	2000	15	72	132	400	2520
400SP8160	Q400	F400	740	1700	22	64	160	400	2880
400SP8200	Q400	F400	740	1700	30	67	200	400	3850
400SP8250	Q400	F400	740	2400	22	75	250	400	4280
450SP6110	Q450	F450	990	2200	10	80	110	450	2200
450SP8160	Q500	F500	740	2600	15	78	160	500	2880
450SP8250	Q500	F500	740	2650	24	80	250	500	4690