



SPIRIT® SAND PLANT

Structural package consisting of sump pump, cyclone and dewatering screen.



HELIX® CYCLONE SEPARATES COARSE & FINE

APPLICATIONS

- » Modular, easy to assemble plant
- » Combination of cyclone, dewatering screen, sumps and pumps
- » Sand production or fines recovery
- » Recover ultrafines from wastewater
- » Reduce solids going to waste pond
- » Consistently produce sharp cuts
- » Ability to ship in container





DEWATERING SCREEN

+/- 2° ADJUSTABLE DECK

Fine tune the angle of the deck for more or less dewatering.

URETHANE SIDEWALL MEDIA

Remove moisture from top and sides of material for drier product.

3-PIECE ADJUSTABLE DAM

Tunable dam to control bed depth at discharge.

HELIX® CYCLONE

FEED INLET

Square to round transition made of high wear urethane.

GEOMETRICALLY EFFICIENT INLET

Reduces turbulence to improve classification and lower internal wear.

OVERFLOW PIPE

Designed with high-wear HDPE material.

VORTEX FINDER

Prevents short-circuiting (less misplacement of coarse material to the overflow).

URETHANE LINING

Fines recovery models cast of 100% urethane, while sand production models have a steel case and urethane or rubber lining.

SUMP TANK

INTERNAL BAFFLE

Reduces turbulence for more consistent, uniform flow.

BOTTOM PLATE

Sloped design allows even material flow to pump.

CLEANOUT FLANGE

Bolt flange design simplifies access for cleanout.

ACCESS PANEL

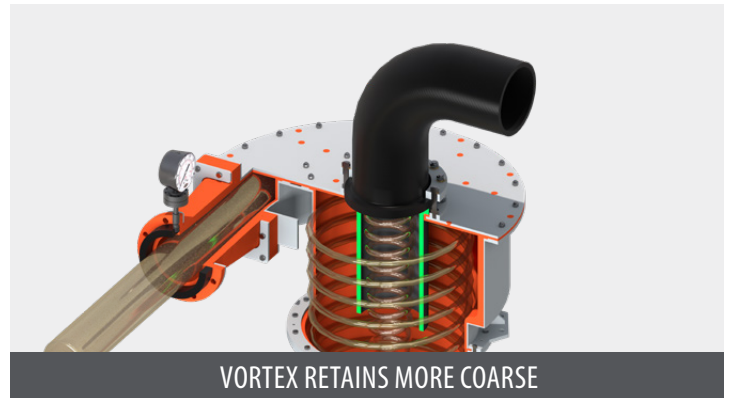
Removable for easy access to sump.

SUMP AUTO LEVEL

Stand alone automated sump level system with controller, sensor and valve.

FINES RECOVERY SPECIFICATIONS

Model Number	Percent Solids	Flow Rate GPM	Screen Size		Screen Area		Screen Motor		Cyclone Diameter			Pump Size		Pump Motor		Sump Capacity		Total Horsepower	
			m	ft	m ²	ft ²	kW	hp	mm	in	QTY	m	ft	kW	hp	m ³	gal	kW	hp
FR600	0-10%	600	0.9 x 2.4	3 x 8	5.4	110	(2) 5.3	(2) 7.0	310	12	1	150 x 100	6 x 4	22	30	4	1,000	33	44
FR1200	0-10%	1200	0.9 x 2.4	3 x 8	5.4	110	(2) 5.3	(2) 7.0	310	12	2	150 x 100	6 x 4	37	50	4	1,000	48	64
FR1800	0-10%	1800	1.2 x 2.4	4 x 8	6.4	165	(2) 5.3	(2) 7.0	310	12	3	200 x 150	8 x 6	56	75	8	2,000	66	89
FR2700	0-10%	2700	1.2 x 2.4	4 x 8	6.4	165	(2) 5.3	(2) 7.0	410	16	3	250 x 200	10 x 8	75	100	8	2,000	85	114
FR3600	0-10%	3600	1.2 x 2.4	4 x 8	6.4	250	(2) 5.3	(2) 7.0	410	16	4	250 x 200	10 x 8	112	150	11	3,000	122	164
FR4500	0-10%	5400	1.5 x 3.0	5 x 10	8.8	176	(2) 8.6	(2) 11.4	410	16	5	300 x 250	12 x 10	149	200	15	4,000	160	214
FR5400	0-10%	5400	1.5 x 3.0	5 x 10	8.8	250	(2) 8.6	(2) 11.4	410	16	6	350 x 300	14 x 12	149	200	15	4,000	160	214



* Patent pending

SAND PRODUCTION SPECIFICATIONS

Model Number	Feed Capacity		Screen Size		Screen Area		Screen Motor		Sump Capacity		Cyclone Diameter		Water Required		Pump Size		Pump Motor		Total Horsepower		
	MTPH	STPH	m	ft	m ²	ft ²	kW	hp	m ³	gal	mm	in	m ³ /hr	gpm	m	ft	kW	hp	kW	hp	
SP70	Standard	64	70	0.9 x 2.4	3 x 8	5.4	58	(2) 5.3	(2) 7.0	3.8	1,000	410	16	160	700	150 x 100	6 x 4	29.9	40	40	54
	High Volume											510	20	230	1,000	150 x 100	6 x 4	37.3	50	48	64
SP100	Standard	91	100	1.2 x 2.4	4 x 8	6.3	68	(2) 5.3	(2) 7.0	7.6	2,000	510	20	230	1,500	150 x 100	6 x 4	56	75	66	89
	High Volume											610	24	350	1,500	200 x 150	8 x 6	56	75	66	89
SP150	Standard	137	150	1.5 x 3.0	5 x 10	8.7	94	(2) 8.6	(2) 11.4	11.4	3,000	610	24	350	1,500	200 x 150	8 x 6	56	75	66	89
	High Volume											770	30	460	2,000	200 x 150	8 x 6	74.6	100	85	114
SP200	Standard	182	200	1.5 x 3.0	5 x 10	8.7	94	(2) 8.6	(2) 11.4	11.4	3,000	510	20	460	2,000	250 x 200	10 x 8	74.6	100	85	114
	High Volume											770	30	690	3,000	250 x 200	10 x 8	74.6	125	104	139
SP300	Standard	273	300	1.8 x 3.6	6 x 12	124	11.5	(2) 7.1	(2) 9.4	15.2	4,000	610	24	690	3,000	250 x 200	10 x 8	74.6	150	122	164
	High Volume											770	30	910	4,000	300 x 250	12 x 10	74.6	150	122	164
SP400	Standard	364	400	2.1 x 3.7	7 x 12	137	12.7	(2) 13.0	(2) 17.4	15.2	4,000	610	24	910	4,000	300 x 250	12 x 10	74.6	200	160	214
	High Volume											770	30	1,140	5,000	350 x 300	14 x 12	74.6	200	160	214

