

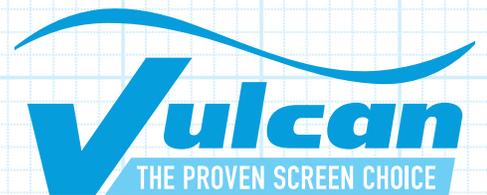


# Model ESS Spiral Screen

Product Information Guide



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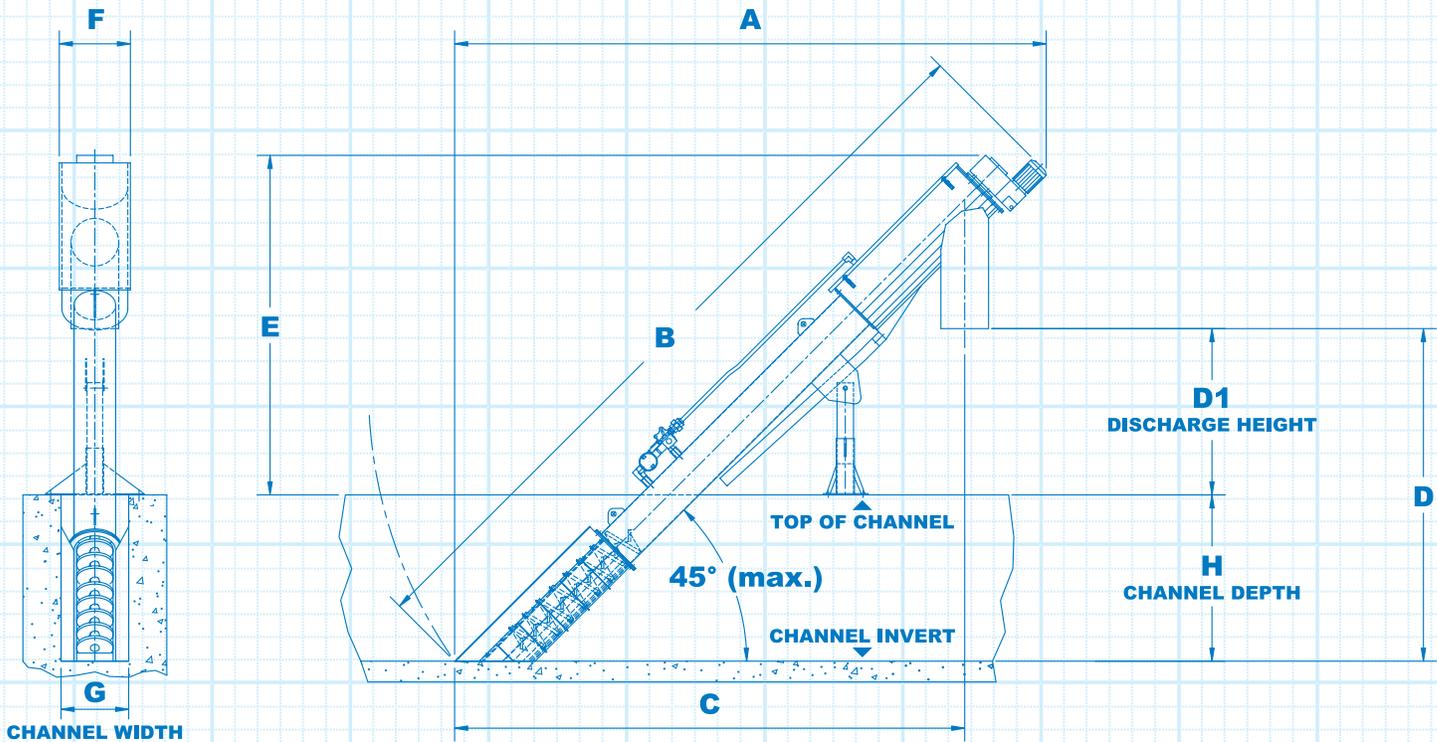
The **Model ESS Spiral Screen** is an automatic, self-cleaning, fine screen for primary screening in municipal and industrial sewage treatment applications. The design of the Spiral Screen allows for easy installation in new or existing facilities without channel modifications in most cases. The Spiral Screen can also be provided in a fabricated stainless steel tank for pumped flow applications.

## Construction

The Spiral Screen consists of a shaftless spiral with nylon cleaning brush, semi-cylindrical screening basket, conveyance tube with internal dewatering cone, discharge chute, press water drainage pan and gear motor. Neoprene side seals are provided on the unit to seal between the screening basket and the channel walls.

## Operation

Wastewater flows through the perforated openings on the screening basket while debris is captured on the surface of the screen. When the controls signal a cleaning cycle, the shaftless spiral rotates and the brush on the spiral cleans the basket and raises captured debris upwards. The debris accumulates and is eventually raised to the dewatering cone where excess water is pressed out of the screenings. The excess water enters the drainage area and is reintroduced to the flowstream through a flexible hose. The pressed debris continues upward and is broken from the screenings plug by rotating arms connected to the top of the cone. The debris then falls through the discharge chute into a bagging assembly, container or conveyor.



Type	A	B	C	D	E	F	G	Motor
ESS 185	C + 2'-3"	D / 0.03" + 5'-1"	D + 2'-4"	D1 + H	D1 + 3'-2"	1'-5"	1'-0"	1.5 HP
ESS 280	C + 2'-7"	D / 0.03" + 6'-0"	D + 2'-10"	D1 + H	D1 + 3'-8"	1'-9"	1'-6"	3 HP
ESS 390	C + 2'-10"	D / 0.03" + 6'-9"	D + 3'-6"	D1 + H	D1 + 3'-11"	2'-0"	1'-9"	5 HP

Note: Dimensions are based on Spiral Screens mounted at a 45 degree setting angle and are for reference only. Contact factory for exact dimensions.

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