

Hydrocyclones

Hydrocyclones are being offered for similar separation tasks like the swimsink tanks in special cases where cyclones achieve a better separating efficiency than swim-sink tanks. This unit works with a pressure force of a feeding pump and reaches a higher separation effect (approx. 20 times earth's gravity) by using the rotational forces of the moving water. The PE/PP material is leaving the Hydrocyclone at the upper end with the main-stream of the water, sinking material, PET, at the lower end with only small amounts of water. By choosing the nozzle sizes at the outlets of the cyclone the selectivity can be adjusted. Necessary equipment of a hydrocyclone circuit is a mixing tank (turbo washer), a feed-ing hydro.

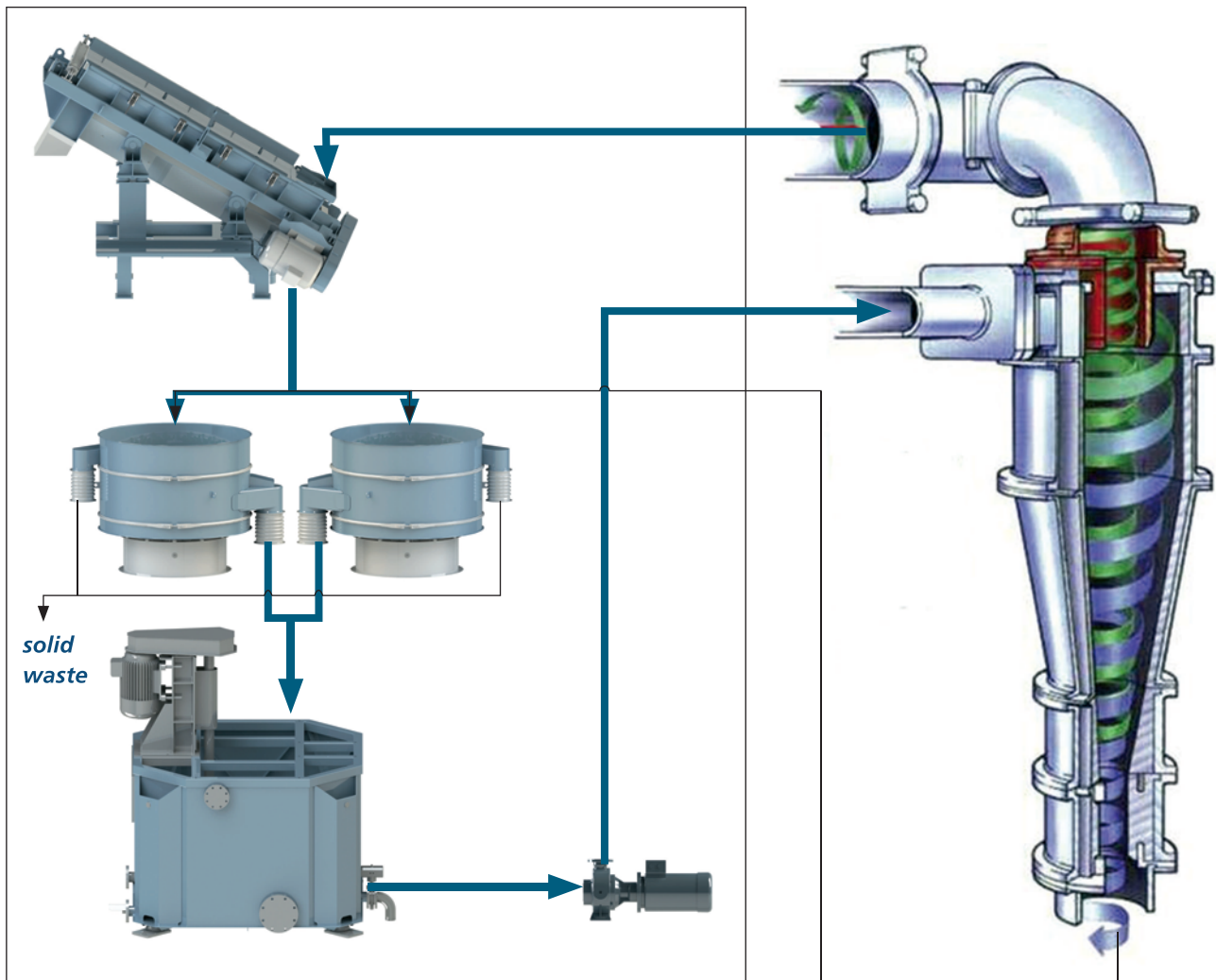
Heavy medium hydrocyclone

*H400 is a heavy duty flat bottom type cyclone for separation of glass, metal and stones in PVC or PET applications in front of a hydrocyclone. This unit comes with a discontinuous discharge with a double gate valve (pneumatically operated) and stainless steel construction.

Special Features:

Replaceable apex on discharge

Optional insulated cylinder housing for heated water



example for polyolefins (slightly modified for target faction $>1\text{g/cm}^3$)

Technical data:

Model	D 250	D 350	D 550
Diameter (mm)	250	350	550
Stainless steel execution	Charged extra		
Vortex Pump (kW)	15	30	45
Platform	optional	optional	optional
Throughput (t/h)			
PET / PVC	1,5	2,5	3,5
HDPE	1,5	2,5	3,5
LDPE	N/A	0,8	1,8

Units in mm

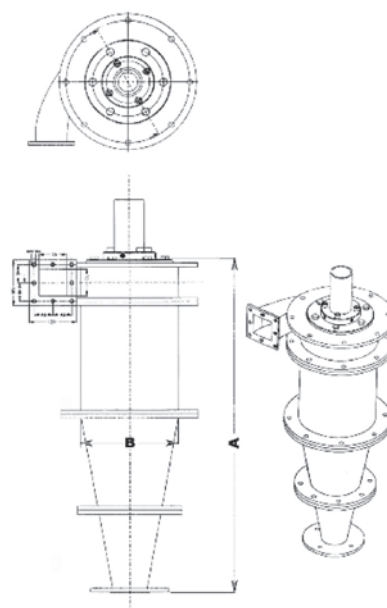
Model	A	B
D 250	852	250
D 350	1430	350
D 500	1994	500

Units in Inch

Model	A	B
D 250	33,5	10
D 350	56,3	15
D 500	78,5	20



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Specifications are not binding and subject to change without notice. 10 / 2019