



All-New Way to Prevent FOG Build-Up in Lift Stations and Grinder Stations

The HS Series provides a mechanical means for fat, oil and grease remediation in wet wells. It is designed for use in smaller applications where space limitations make the use of a rotating head (EP system) impractical to implement. This series of products effectively eliminates the need for costly, repeated clean-out of these small stations by providing automated and continuous treatment. After just a few run cycles, users see a dramatic difference.

There are two separate series: HydroSpear™ and HydroStar™.

HydroSpear

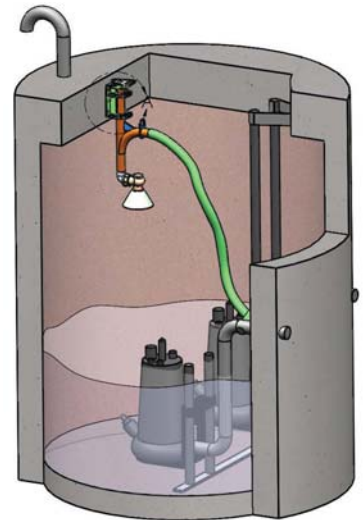


The **HydroSpear, HS-500** Series, is designed for fat, oil and grease remediation in small lift stations, generally 6 feet in diameter or less. The **HS-500** series receives flow from a tap of the discharge main or, when not practical, a dedicated pump.

Pays for Itself in Months & Returns Benefits Year After Year

- Eliminate costly third party vector truck services
- Reduce demands on labor dedicated to clean-out
- Utilize a returned, fractional amount of wastewater for cleaning action
- No moving parts, limited potential for downtime

HydroSpear Installation



HydroStar for Grinder Stations



The **HydroStar, HS-100** Series, is designed for small grinder stations. The **HS-100** is directly mounted to the discharge main.

HS-500 in Action



The unique Patent Pending design shapes the returning stream to optimize cleaning and reconditioning.

HS-500/HS-100

HS Series Systems and Accessories List

There are multiple configurations for the installation of the HS series, including wall mount and hatch mount. The operating requirements, as well as the various installation options and accessories are listed here.

HydroSpear HS-500 - Hatch Mounted System

Model	Application/Description	Head Outlet Size	Required Flow	Tap: Minimum Discharge Main Diameter	Dedicated Pump Option			
					2hp, 230 VAC, 3Φ**	2hp, 460 VAC, 3Φ**	5hp, 230 VAC, 3Φ**	5hp, 460 VAC, 3Φ**
HS-520H	Wet Well ≤ 6' Diameter, Solids Handling	2.0"	39 gpm	6"	N/A	N/A	-P523	-P543
HS-515H	Wet Well ≤ 6' Diameter, Solids Handling	1.5"	19 gpm	4"	-P223	-P243	N/A	N/A

Sub-Assemblies	Part Number	Description
	HS-HA520	Head Assembly, 2" for HS-520H
	EP-MB1320	Hatch Mounting Bracket, 2.0" for HS-520H
	EP-FM1320	Feed Mast for HS-520H
	HS-HA515	Head Assembly, 1.5" for HS-520H
	EP-MB1315	Hatch Mounting Bracket, 1.5" for HS-515H
	EP-FM1315	Feed Mast, 1.5" for HS-515H



Head Assembly



Hatch Mount Bracket



Feed Mast



**Add this extension to model number. Example: HS-520H-P523

HydroSpear HS-500 - Wall Mounted System

Model	Application/Description	Head Outlet Size	Required Flow	Tap: Minimum Discharge Main Diameter	Dedicated Pump Option			
					2hp, 230 VAC, 3Φ**	2hp, 460 VAC, 3Φ**	5hp, 230 VAC, 3Φ**	5hp, 460 VAC, 3Φ**
HS-520W	Wet Well ≤ 6' Diameter, Solids Handling	2.0"	39 gpm	6"	N/A	N/A	-P523	-P543
HS-515W	Wet Well ≤ 6' Diameter, Solids Handling	1.5"	19 gpm	4"	-P223	-P243	N/A	N/A

Sub-Assemblies	Part Number	Description
	HS-HA520	Head Assembly, 2" for HS-520W
	HS-HA515	Head Assembly, 1.5" for HS-515W
	EP-5-WMB	Wall Mounting Bracket for HS520W & HS515W



Head Assembly



Wall Mount Bracket



**Add this extension to model number. Example: HS-520H-P523

HydroStar HS-100

Model	Application/Description	Head Outlet Size	Required Flow	Tap: Minimum Discharge Main Diameter	Dedicated Pump Option			
					2hp, 230 VAC, 3Φ**	2hp, 460 VAC, 3Φ**	5hp, 230 VAC, 3Φ**	5hp, 460 VAC, 3Φ**
HS-120D	Grinder Station	2.0"	32 gpm	4"	N/A	N/A	N/A	N/A
HS-115D	Grinder Station	1.5"	19 gpm	4"	N/A	N/A	N/A	N/A
HS-110D	Grinder Station	1.0"	8 gpm	3"	N/A	N/A	N/A	N/A
HS-107D	Grinder Station	0.75"	6 gpm	2"	N/A	N/A	N/A	N/A



Operating Requirements

EP-520/515 Series Operating Requirements	Minimum- Maximum
Input Pressure at Feed Point	10 psi / 90psi
Head Installation Relative to High Water	1' / 4'
Operating Time per 24 Hour Period	1.25 hours / 6 hours

Pump Accessories

Systems with Pumps	Description
Control Panel	Simplex; NEMA 4X fiberglass enclosure; meets UL508
Pump Timer	Digital in control panel
Grinder Pump	High head & flow; 30 ft, 10 AWG power cord with 8" adjustable height feet
Pump Mounting Bracket	316 stainless steel