

# Sewage Vacuum Pump Units

The silent problem solver



# The silent problem solver

## HÜDIG Sewage Vacuum Pump Units

Municipal and industrial sewage and other viscous liquids can be conveyed trouble-free with HÜDIG Sewage Vacuum Pump Units.

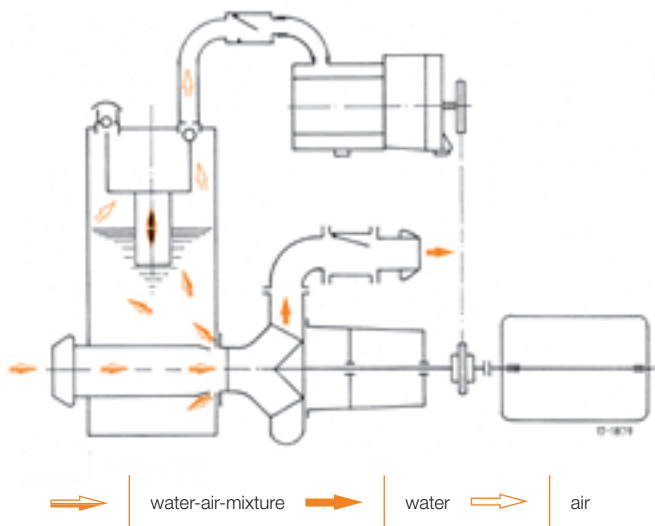
Electro motors or alternatively Diesel engines are available as drives. The units are mounted

- with electro motor on a base-frame
- with Diesel engines together with a noise-protection canopy (LWA 88 dB) on fuel-tank-frame with a fuel capacity sufficient for 24 hours service

### The Functional Description

The water pump together with the vacuum generator both powered by electro motor or a Diesel engine ensure a continuous flow of the

water-air-mixture. There is a separator-chamber installed in front of the sewage pump which allows the air of the suction-line to be separated from the water and consequently the water pump conveys only water. This combined system ensures a fast suction process and a high vacuum.



### Chassis

As standard the Diesel Vacuum Pump Units of the type DIVA are equipped with fuel tank chassis for on-site traffic up to a speed of 6 km/h. Chassis for higher speed are available at extra charge. The volume of the fuel tank is dimensioned for a 24 hour service.

## Robust Components of the HÜDIG GmbH & Co. KG



Unit



Engine of EVA/DIVA



Air Separation Chamber



### Air Separator Chamber

As standard the air separation chamber consists out of galvanized sheet steel and is therefore optimally protected against corrosion. It has sidewise swing-doors.

### Robust Sewage Pump

A low-wear and robust screw-impeller centrifugal pump “HIDROSTAL-system” is used for conveying of the liquid medium. The screw-type impeller features a high degree of efficiency against plugging and clogging by long-fibre material.

### High-Capacity Vacuum Generator

The HÜDIG Diesel Vacuum Pump Units are equipped with rotary vane vacuum pumps

without oil-lubrication. They feature a large air capacity even at high vacuum. These pumps are robust and operate in frost, as well as in tropical temperatures faultlessly. Damage due to frost or lack of cooling water is not possible. Even the daily task of monitoring the operating water as well as the oil change intervals is not required to oil free vacuum generators.

### Air-cooled Engines

Powered by water-cooled and air-cooled (noise limited version) Diesel engines or electro motors from European manufacturers.



Vacuum Pump

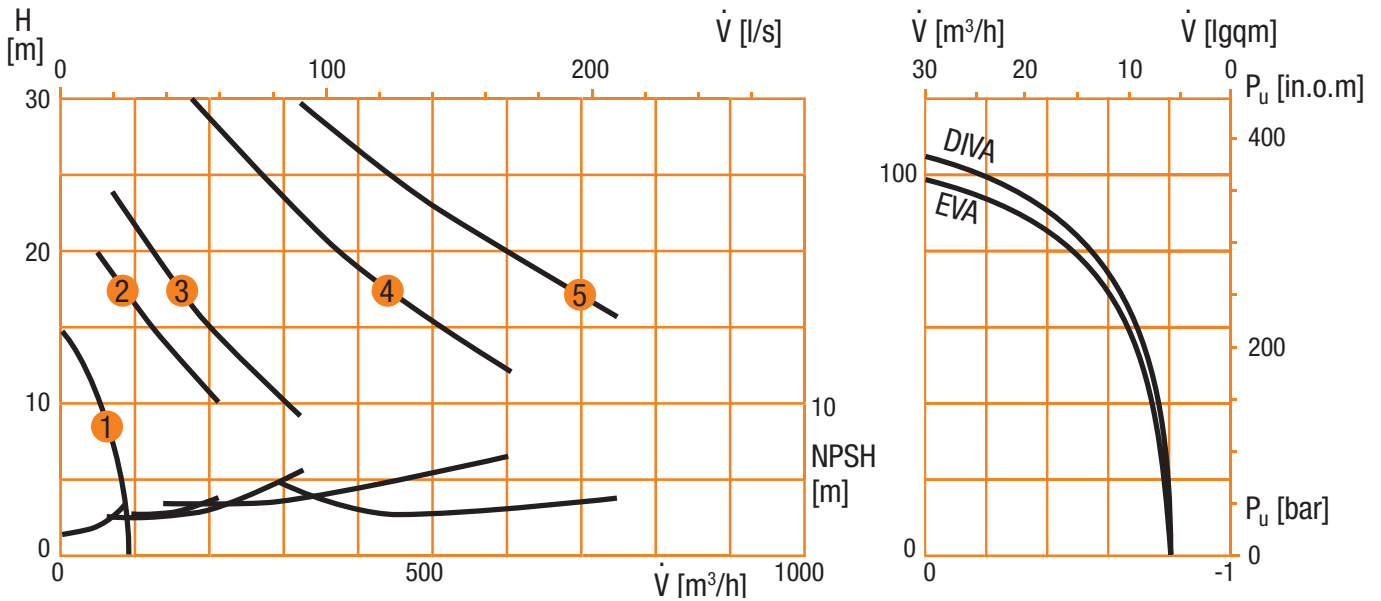


Screw-type Impeller



Sewage Pump EVA/DIVA

# Head Curve



Note: H = 0 m WS under pressure  
Water pumps

Vacuum pumps HC 988/35 K  
Graphic: Suction pressure

# Technical Data

Head Curve No.	Type	Sewage Pump				Vacuum pump		Engine <sup>1)</sup>				Shipping dimensions				
		Capacity	Head	Connec-tion <sup>2)</sup>	Capable Solid Size	Capacity	Vacuum	Manufac-turer	Frame Size/Type	Power	RPM	Length x Width x Height	Weight			
		$V_{max}$ m³/h	$H_{max}$ m	$DN_s$ $DN_d$ mm	$\emptyset$ mm	$V_{max}$ m³/h	$p_{u,max}$ bar			$P_n$ kW	$n$ 1/min	$l \times w \times h$ mm	$m$ kg			
1	DIVA 80/06	73	14.6	108	45	70	-0.92	Diesel Hatz	1D81Z	8.4 <sup>3)</sup>	2300	1550 x 1150 x 1450	994			
	DIVA 80/07											1550 x 1150 x 1700	1230			
2	DIVA 100	210	20	100	100	60		Diesel Deutz	F2M2011	15.8 <sup>3)</sup>	1800	2500 x 1150 x 1440	1338 <sup>5)</sup>			
3	DIVA 180	320	24	150	100	105						D2011L03	20.4 <sup>3)</sup>	1500	6200 x 1730 x 2300	2670 <sup>5)</sup>
4	DIVA 350	600	30	150	115							D2011L04	30.9 <sup>3)</sup>		3100 x 1150 x 2060	2500 <sup>4)</sup>
5	DIVA 650	750	30	250	120	90						TD2.9L04	45 <sup>3)</sup>	1600	5500 x 2400 x 2550	4050 <sup>5)</sup>
3	EVA 180	320	24	150	100	100		Electro	160 L 100 L	15 3	1460	2725 x 1170 x 1630	1030			
4	EVA 350	600	30	150	115				200 L 100 L	30 3		2280 x 1170 x 1630	1257			
5	EVA 650	750	30	250	120				60	225 M 100 L		45 3	3200 x 1600 x 1800	2300		

Subject to technical changes to the scope of delivery. 03/2016

- 1) Other engines available on request
- 2) Other connections available on request
- 3) Load according DIN

- 4) Length of DIVA without tow-bar
- 5) With low-noise protection canopy  $L_p = 65$  dB(A) in 7 m distance
- 6) Weight with canopy bit without chassis



HÜDIG GmbH & Co. KG  
Heinrich-Hüdig-Str. 2  
D-29227 Celle  
Germany

Phone: +49 51 41 88 45-0  
Fax: +49 51 41 86 91-8  
E-Mail: info@huedig.de  
Web: www.huedig.de

