

## Diesel Vacuum Pump Units

The safe low-maintenance alternative



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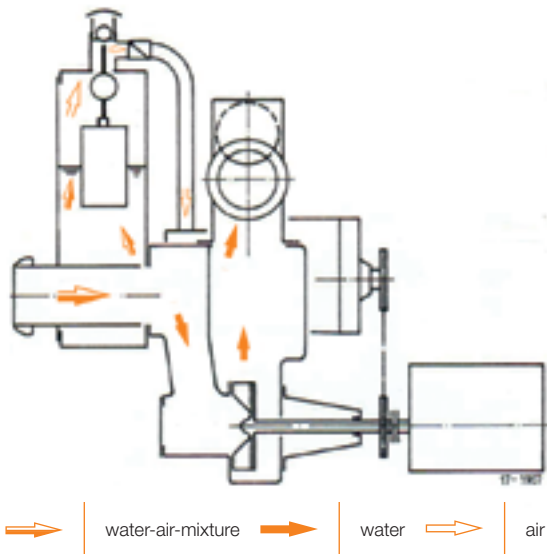
... meet our customers' needs – proven worldwide – for the conveyance of groundwater.

These units are engineered under the motto “highest reliability with the smallest maintenance requirements”. This demand is met by using the highest quality materials and quality standards. The result is a pump unit that stands up to the toughest of the requirements – such as those in the construction industry.

## The concept behind them

Powered by Diesel engines, both the water pump and vacuum generator ensure the **continual provision** of the air-water mixture. Using an air separator

(connected “upstream” of the water pump), the drawn-in air can be separated from the water, so the water pump conveys only water. This combined system achieves a **fast, reliable suction** as well as a powerful vacuum.



## Reliable Diesel engines

Powered by air-cooled Diesel engines produced by first-class European manufacturers.

## Chassis

The HC 533/552/573 models of the Diesel vacuum pump units are mounted on a fuel tank chassis as standard to enable the pumps to be movable on-site at speeds of up to 6km/h. Chassis to enable higher speeds can be fitted at additional cost. The fuel tank size is sufficient for **usage around the clock**.

## The strong components of HÜDIG GmbH & Co. KG



Engine



Chassis-mounted units



Air separation chamber





### Galvanized air separator

The air separation chamber is built as standard from hot-galvanized sheet steel and is therefore optimally protected against corrosion.

### Robust water pumps

Defective filter casings or sump pumping need never be a problem with the HÜDIG Diesel Vacuum Pump Unit. By using **HÜDIG wastewater centrifugal pumps**, premature breakdowns caused by conveying sandy water are counteracted. A huge advantage!

The durability of pumps commonly used for the conveyance of saltwater or brackish water is limited. By using bronze-alloy impellers, the pump's resistance against corrosion from saltwater is guaranteed. The HC 533/552/573 units come

equipped with impellers made out of bronze alloy as standard.

### High performance vacuum pumps

HÜDIG Diesel Vacuum Pump Units are equipped with rotary vacuum pumps **without lubrication**. Their large air flow rate even at high vacuum proves their worth. These robust pumps can operate just as flawlessly in frost as in tropical temperatures and suffer no damage due to frost or a lack of cooling water. Even the tedious daily controlling of the operating water as well as **oil change intervals become unnecessary**.



Water pump

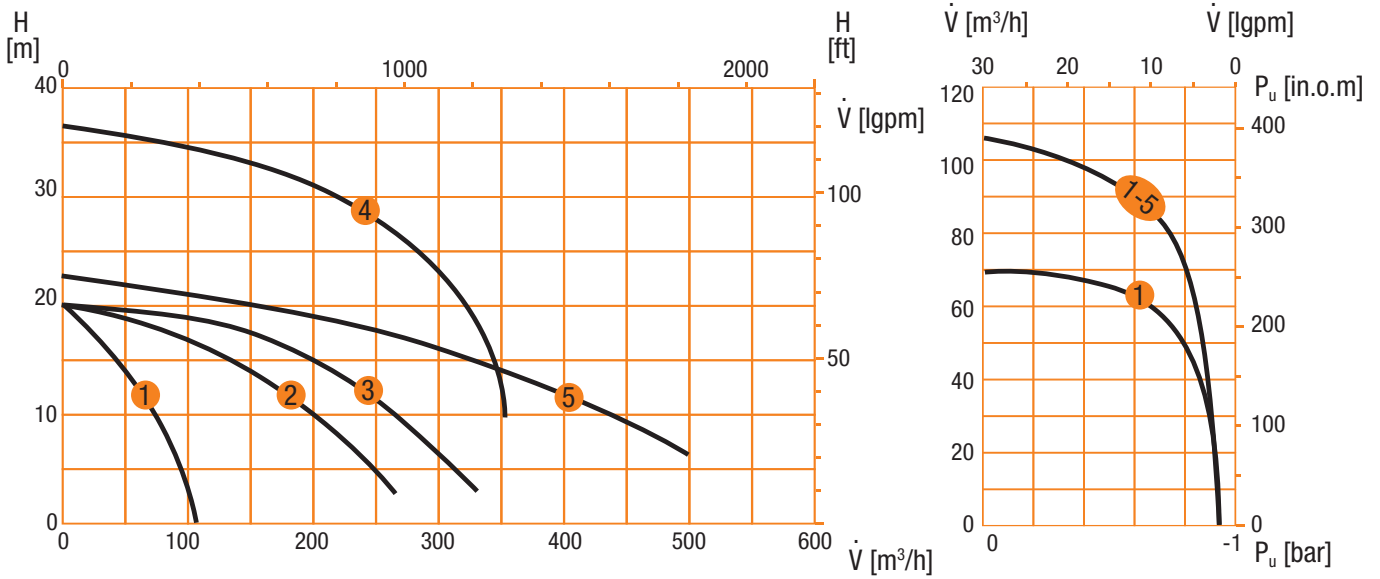


Impeller



Vacuum generator

# Head Curve



Water pumps  
Note: P<sub>u</sub> = 0 bar pressure

Vacuum pumps  
Graphic: Suction pressure

# Technical Data

Head Curve No.	Type	Water Pump				Vacuum Pump		Engine <sup>1)</sup>				Shipping dimensions <sup>4)</sup>	
		Capacity	Head	Connec-tion <sup>2,7)</sup>	Solid Size cap.	Capacity	Vacuum	Manu-facturer	Type	Power <sup>3)</sup>	RPM	Length x Width x Height	Weight
		V <sub>max</sub> m <sup>3</sup> /h	H <sub>max</sub> m	DN <sub>s</sub> DN <sub>d</sub> mm	∅ mm	V <sub>max</sub> m <sup>3</sup> /h	p <sub>u</sub> max bar			P kW	n 1/min	l x w x h <sup>4)</sup> mm	m kg
1	HC 522/06 <sup>5)</sup>	105	21	108 V	45	58	-0.92	Hatz	1D81Z	8.4	2300	1550 x 1150 x 1450	994
	HC 522/07 <sup>5)</sup>											1550 x 1150 x 1700	1230
2	HC 533/07	270	21	108 V	33			Deutz	F3L2011	18.1	1500	2170 x 1252 x 1760	1025
	HC 533/14 <sup>6)</sup>							Hatz	2L41C	15.0			1091
3	HC 552/01	330	21	159 V	45	105	-0.92	Deutz	F3L912	22.0	1500	2170 x 1252 x 1760	1137
	HC 552/02								D2011 L03	19.3		2250 x 1250 x 1760	1476
	HC 552/07								F3L912	22.0		2170 x 1252 x 1760	1125
	HC 552/09 <sup>6)</sup>								Hatz	3L4C			
4	HC 552/26	360	36					Deutz	F4L912	44.0	2000	2400 x 1580 x 1680	1135
5	HC 573/01	500	23.5	216 V	48					34.0	1500	2900 x 1870 x 1680	1400

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 without tow-bar

- 5) With low-noise protection canopy/ HC 522/07/ fuel capacity 51 l
- 6) With low-noise engine
- 7) Male connection



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