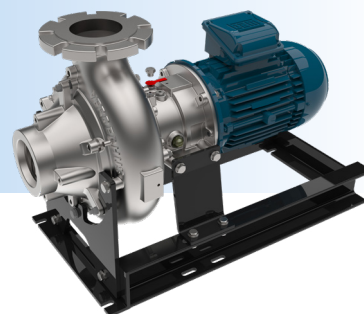


Verderhus Stainless Steel

HSB-100-100-A



VERDERHUS®

Description

Verderhus stainless steel screw centrifugal pumps combine the best features of centrifugal and positive displacement pumps. They define a new standard for low head, high flow pumps. The Verderhus pumps have a large clearance screw impeller, which gently feeds product into the pump chamber. This allows the product to be efficiently transferred into the discharge line and allows for large solids to be easily pumped. The screw design impeller is ideal for high solid contents and viscous liquids. It produces a high efficiency, low NPSHr pump, lowering both energy usage and operational costs, generating a lower overall cost of ownership.

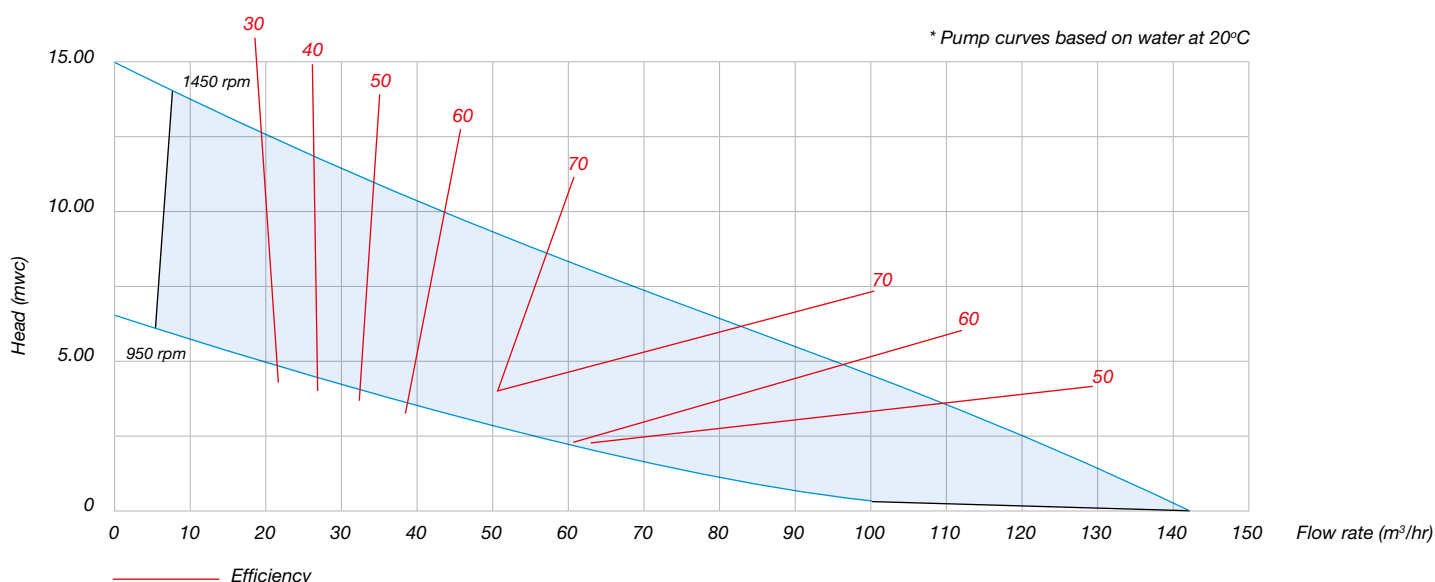
Features and benefits

- Large solid handling with <10% sludge, <30% slurry
- Gentle, low shear pumping, meaning lesser damage to the fluid
- Low energy use compared to other technologies
- Low abrasive wear meaning reduced maintenance costs
- Corrosion resistant stainless steel for aggressive chemical handling

Technical data

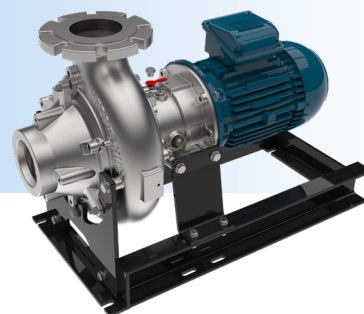
Ambient operating temperature	-5, 40 °C	Max viscosity	3000 cP
Fluid temperature	-20, 100 °C	Maximum solid size	80 mm
Maximum pump noise	up to 75 dB	Solid content percentage	Sludge: 10% - Slurry: 30%
Max. flows	140 m³/h	Max. head	14 mwc

Performance curve



Verderhus Stainless Steel

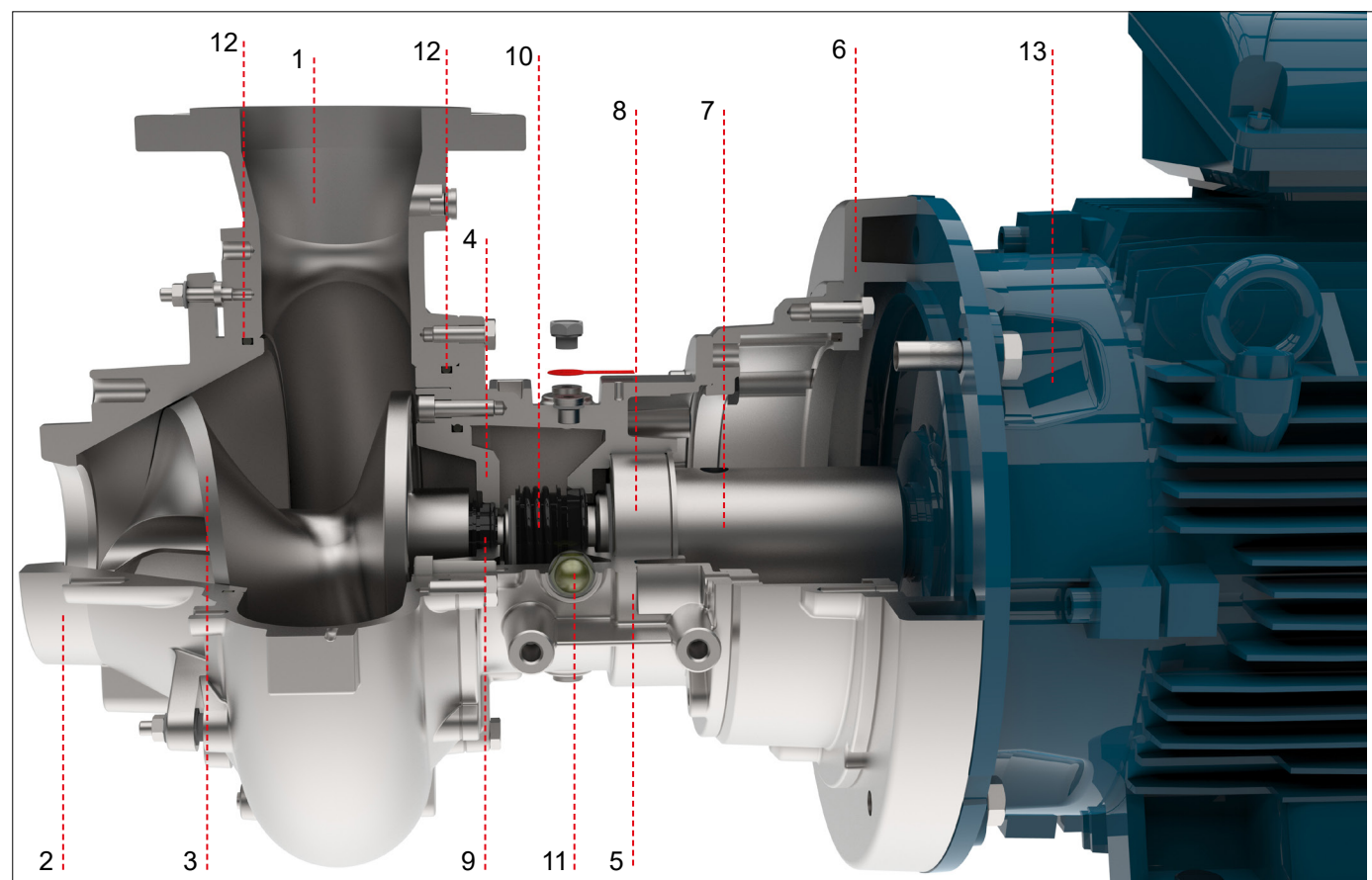
HSB-100-100-A



VERDERHUS®

Item No.	Description	Standard Materials / Dimensions
1	Impeller housing/Cone*	Stainless Steel 1.4408 (316) (Nitrided)
	Suction flange	DN100 PN10
	Discharge flange	DN100 PN10
2	Intake Socket*	Stainless Steel 1.4408 (316) (Nitrided)
3	Impeller*	Stainless Steel 1.4408 (316) (Nitrided)
4	Cooling Flange*	Stainless Steel 1.4408 (316) (Nitrided)
5	Bearing housing*	Stainless Steel 1.4408 (316) (Nitrided)
6	Transition flange	Stainless Steel 1.4408 (316)
7	Drive shaft	Stainless Steel 1.4435 (AISI 316L)
8	Bearing	Single Row Deep Groove Ball Race-Sealed for Life
9	Mechanical seal-product side	Silicon Carbide/Silicon Carbide/VITON
10	Mechanical seal-motor side	Carbon/Ceramic/NBR
11	Oil Chamber	Industrial gear oil 150
12	O-rings material	FPM
13	Motor options and overall pump weight (WEG W22 IE3 motors)	With IEC112 Motor: 134 Kg With IEC132 Motor: 190 Kg
	Mounting frame	Steel S275 JR

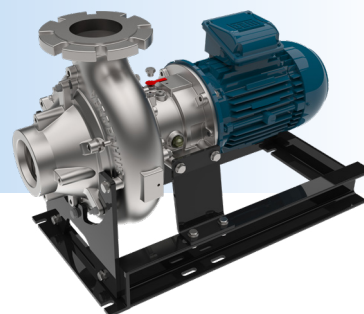
* Impeller housing, Intake socket, Impellers, Bearing housing and Cooling flange will now be Nitrided as standard to increase wear resistance and surface hardness.



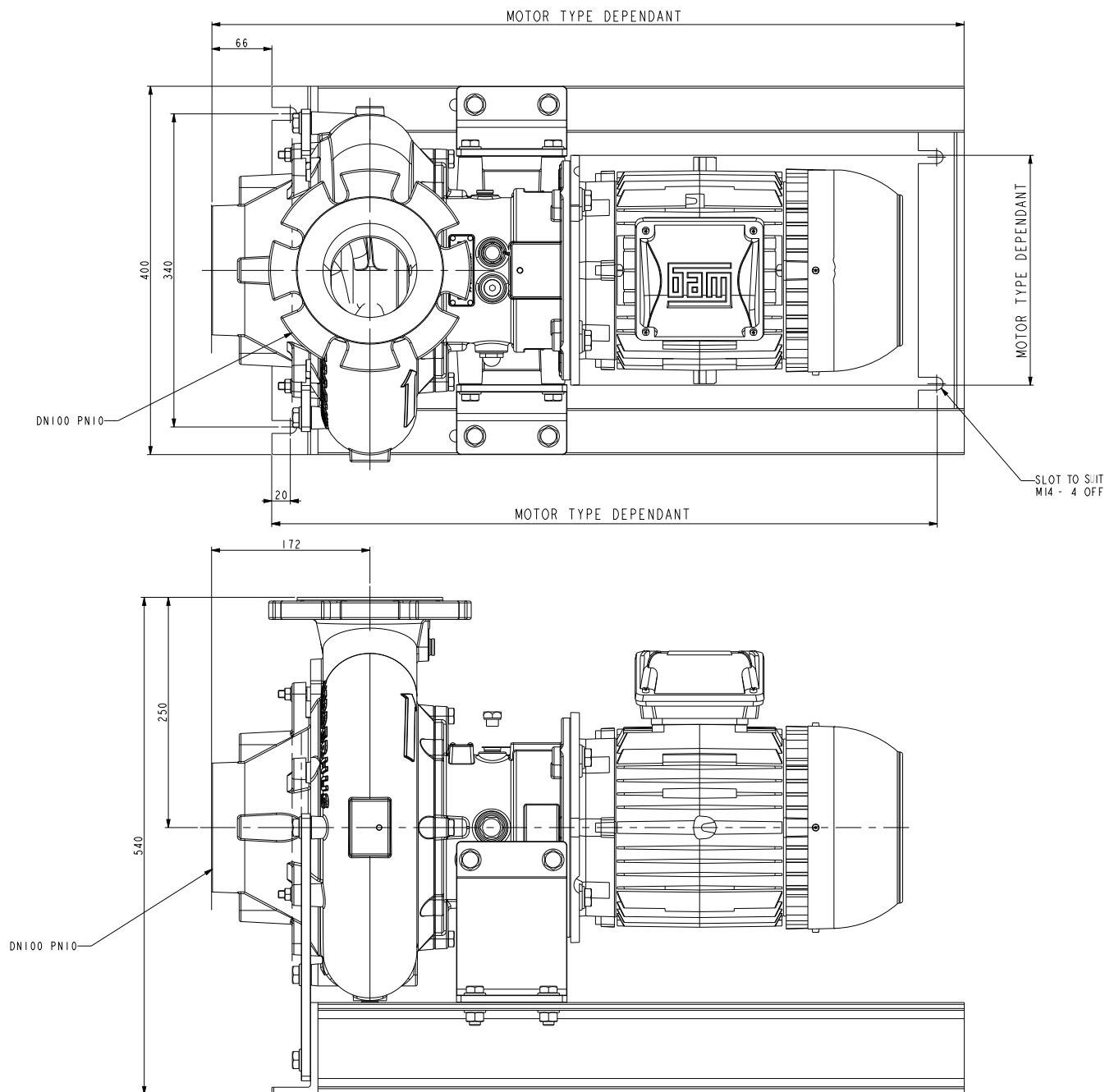
Sectional view of Impeller Housing Assembly

Verderhus Stainless Steel

HSB-100-100-B



Dimensions



All dimensions are in mm.

All dimensions and weights are for guidance only.

Your local supplier:

lobē

Danmark

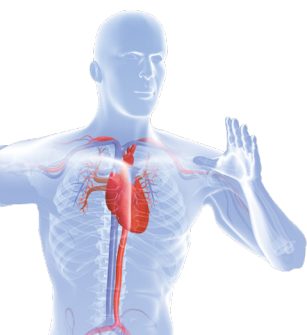
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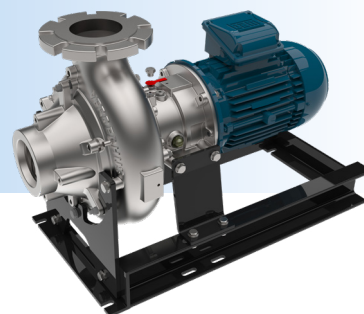
VERDER
passion for pumps

VERDERHUS®



Verderhus Stainless Steel

HSB-100-100-B



VERDERHUS®

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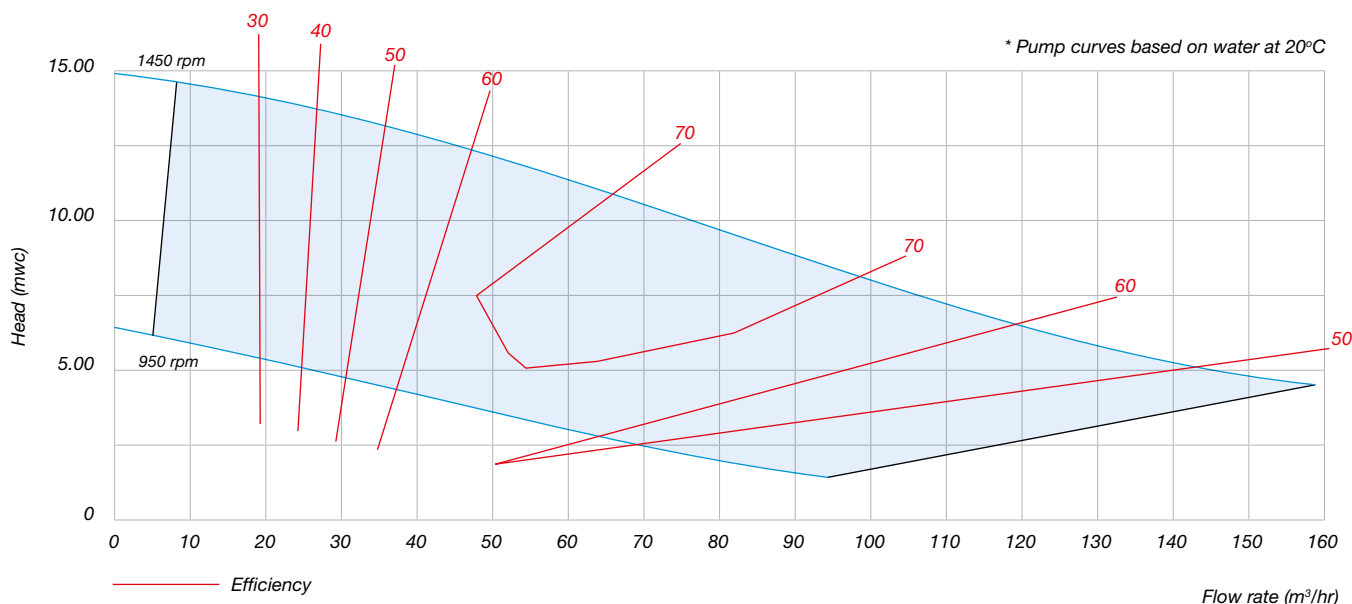
Features and benefits

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Technical data

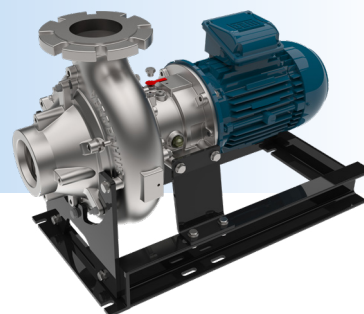
Ambient operating temperature	-5, 40 °C	Max viscosity	3000 cP
Fluid temperature	-20, 100 °C	Maximum solid size	80 mm
Maximum pump noise	up to 75 dB	Solid content percentage	Sludge: 10% - Slurry: 30%
Max. flows	155 m³/h	Max. head	14 mwc

Performance curve



Verderhus Stainless Steel

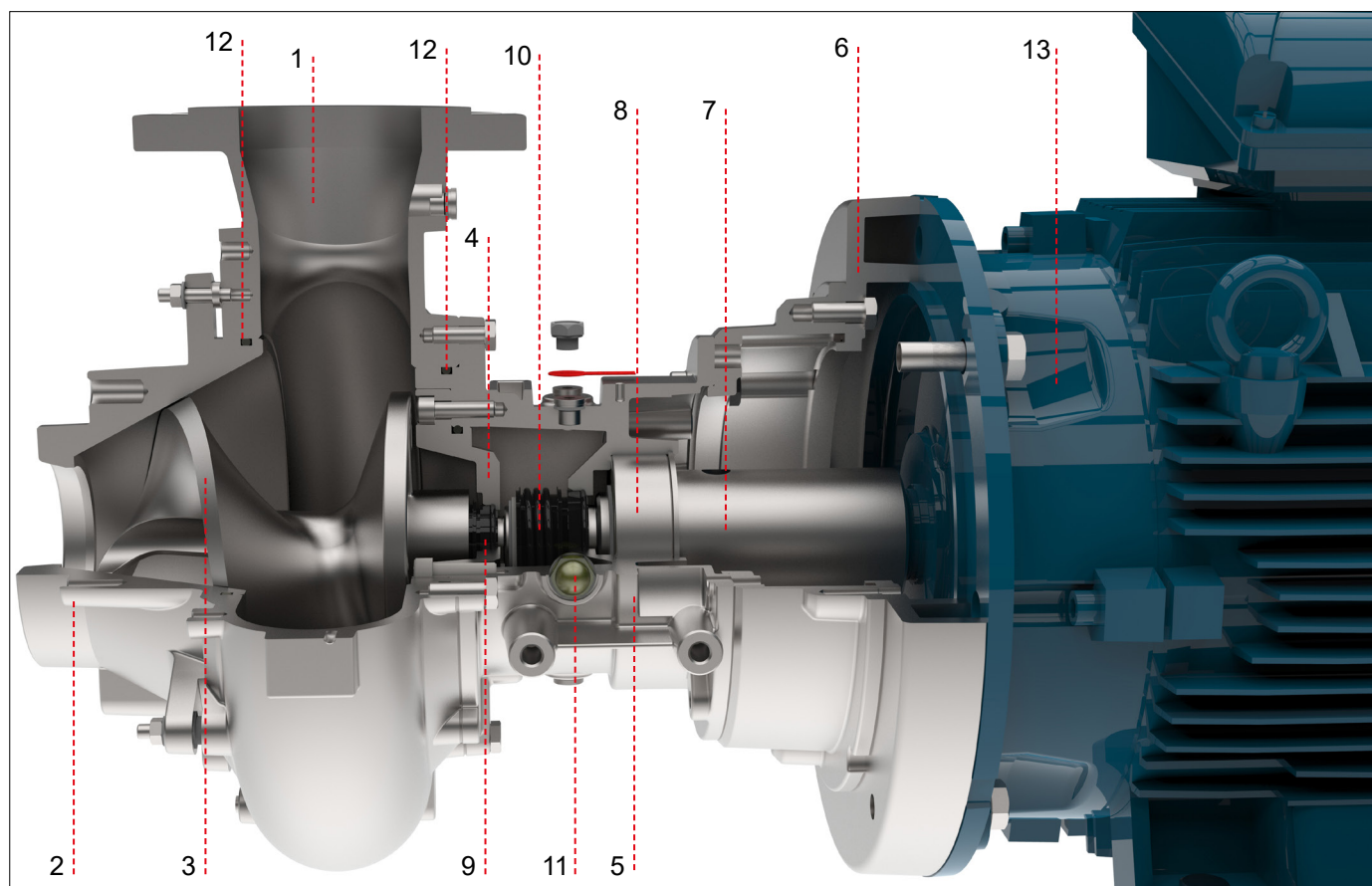
HSB-100-100-B



VERDERHUS®

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* Impeller housing, Intake socket, Impellers, Bearing housing and Cooling flange will now be Nitrided as standard to increase wear resistance and surface hardness.



Sectional view of Impeller Housing Assembly

VERDERHUS®

Technical drawing of a pump assembly, showing two views: a front view (top) and a side view (bottom).

Front View (Top):

- Overall width: 400
- Overall height: 340
- Motor type dependant dimensions: 66 (top left), 20 (bottom left), and MOTOR TYPE DEPENDANT (right side).
- Label: DN100 PN10 (pointing to the pump body).
- Label: SLOTTED TO SUIT M14 - 4 OFF (pointing to the motor base).

Side View (Bottom):

- Overall width: 172
- Overall height: 540
- Motor type dependant dimensions: 250 (top left) and MOTOR TYPE DEPENDANT (right side).
- Label: DN100 PN10 (pointing to the pump body).

All dimensions and weights are for guidance only.

An anatomical illustration of the human heart and major blood vessels. The heart is shown in red, with the pulmonary artery and pulmonary veins connecting it to the lungs. The aorta and other major arteries are also visible. The lungs are shown in blue. The illustration is set against a white background.

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