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VAB 032-025-145 0222KI T81MVCCO OA

Vitacast Bloc - Hygieic centrifugal pump

Operating data

Requested flow rate Requested developed head Pumped medium	3.00 m³/h 20.00 m + Starch suspension + waterige suspensie met	Actual flow rate Actual developed head Efficiency Power absorbed	3.00 m ³ /h 20.00 m 31.3 % 0.57 kW
Pumped medium details	droge substantie Not containing chemical and mechanical substances which affect the materials	Pump speed of rotation NPSH required Permissible operating pressure	2387 rpm 0.53 m 10.00 bar.g
Max. ambient air temperature Min. ambient air temperature Fluid temperature	20.0 °C 20.0 °C 60.0 °C	Discharge press.	2.16 bar.g
Fluid density	1100 kg/m³	Shutoff head	20.66 m
Fluid viscosity Suction pressure max.	1.10 mm²/s 0.00 bar.q	Min. allow. flow for continuous stable operation	0.59 m³/h
Mass flow rate Max. power on curve	0.92 kg/s 0.77 kW	Min. allow. mass flow for continuous stable operation	0.18 kg/s
		Max. allow. mass flow Design	2.19 kg/s Single system 1 x 100 %

Motor shroud

Surface finish wetted parts

Design



Shaft seal manufacturer

Mechanical Seal Form

Shaft seal type

The pump conforms to the regi	ulations of EGV 1935/2004
Design	Close-coupled
Orientation	Horizontal
Suction nominal dia.	DN 32
Suction nominal pressure	PN 10
Suction position	axial
Connection standard	DIN 11851 (Milk thread)
Discharge nominal dia.	DN 25
Discharge nominal pressure	PN 10
Discharge position	top (0°/360°)
Discharge flange drilled	DIN 11851 (Milk thread)
according to standard	
Counter Flange	No
Shaft seal	Single acting mechanical

acting mechanical seal Roten Uniten 3 Unbalanced

Direction of rotation Clockwise **Spring Shrouding** open Q1Q1VGG Material code Shaft seal code T81 Sealing plan I Single-acting mechanical seal(internal circulation) Standard seal chamber Seal chamber design Impeller diameter 145.0 mm Free passage size 3.5 mm Direction of rotation from drive Clockwise Silicon free pump assembly Yes Bearing bracket construction Close-coupled Bearing type Anti-friction bearings Lubrication type Grease Color White aluminium (similar RAL 9006) 3 point ball feet Support or motor foot

Without

 $3.2 \, \mu m$

Data sheet



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Driver, accessories

Driver type

Drive standard mech. **IEC** Model (make) KSB-Motor Standard motor supplied by Drive supplied by KSB - mounted by KSB Motor const. type V1 Motor size 90L Efficiency class Efficiency class IE3 acc. to IEC60034-30-1 Speed control selection Speed adjustment Frequency 50 Hz Designed for operation with Yes frequency inverter Rated voltage 400 V Rated power P2 2.20 kW Available reserve 215.37 % 4.6 A Rated current Starting current ratio 8.7 Insulation class F to IEC 34-1

Electric motor

IP55 Motor enclosure Cos phi at 4/4 load 0.86 Motor efficiency at 4/4 load 85.9 % 1 PTC resistor Temperature sensor Terminal box position 0°/360° (top) Viewed from the drive Motor winding 230 / 400 V Number of poles 2 Connection mode Star Motor cooling method Surface cooling Motor material Aluminium Frequency inverter operation FI allowed allowed Motor noise pressure level 68 dBa Motor data can vary from type plate information. Motor data describes KSB's choice functional specification and is used for pump selection. EAC Approval Yes

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Materials C

Circular casing (103)
Discharge cover (163)
Shaft (210)
Impeller (230)
O-Ring (412)
Stainless steel 1.4409
CrNiMo steel 1.4404
Stainless steel 1.4409
FKM 75 with FDA approval

Taper locking ring (515)

Cover plate (68-3)

Motor shroud (683)

Impeller nut (922)

Stainless steel 1.4301

Without

CrNiMo steel 1.4404

Truck

Packaging

Packaging category A0 Packing acc. to KSB

choice

Packaging for storage Indoor

Nameplates

Nameplates language International

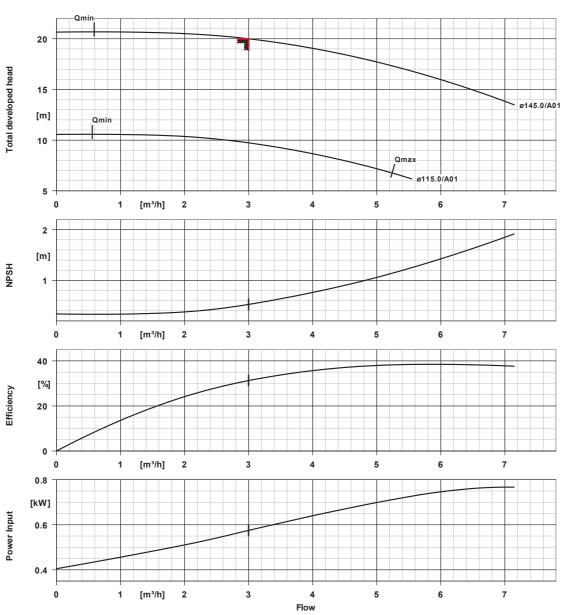
Packaging for transport



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Curve data

Speed of rotation	2387 rpm	Requested developed head	20.00 m
Fluid density	1100 kg/m³	Efficiency	31.3 %
Viscosity	1.10 mm ² /s	Power absorbed	0.57 kW
Flow rate	3.00 m³/h	NPSHR	0.53 m
Requested flow rate	3.00 m³/h	Curve number	VA-25145-2900
Total developed head	20.00 m	Effective impeller diameter	145.0 mm

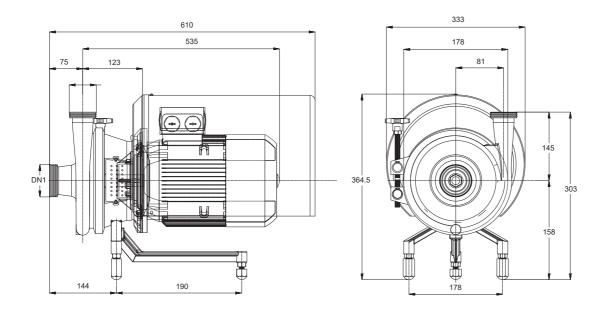
Installation plan



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Drawing is not to scale Dimensions in mm

Motor

Motor manufacturer KSB-Motor Motor size 90L Motor power 2.20 kW Number of poles 2 2974 rpm Speed of rotation 0°/360° (top) Viewed from the drive Position of terminal box

Connections

DN 32 / DIN 11851 (Milk Suction nominal size DN1

thread)

Discharge nominal size DN2 DN 25 / DIN 11851 (Milk

thread)

Nominal pressure suct. PN 10 Rated pressure disch. PN 10

Weight net

Pump 15 kg Motor 21 kg Total 36 kg

For auxiliary connections see

separate drawing.

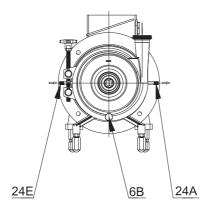
Connect pipes without stress or strain!

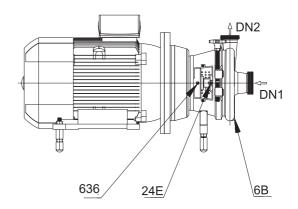


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Connections

6B Pumped liquid drain	G 3/8	Not executed
24E/24A Quench liquid in/out	G 1/4	Not executed
10E/10A Sealing liquid in/out	G 1/4	Not executed
636 Lubrication for bearing		Not executed