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Technical data

Rexa SUPRA-V08-97

With motor

FK 17.1-4/16K

Project ID Untitled project 2025-03-05 10:17:21.271

Project name

Installation location

Customer pos. No.

Date 2025-03-05

Pump

Pump type	Rexa SUPRA-V08-97
Installation type	Suspension device 1 DN80/2RK
Free passage	80 mm
Nominal speed	1740
Frequency	60 Hz
Impeller type	Vortex impeller
Impeller construction	Open

Impeller Ø

designed	205 mm
standard	205 mm
Max.	205 mm
Min.	155 mm

Discharge port

Pressure rating	PN10
Rated diameter	DN80
Standard	EN1092-2-D

Suction port

Pressure rating	PN10
Rated diameter	DN80
Standard	EN1092-2-S

Weight

Weight	max.	33 kg
Weight of motor		106 kg
Weight of unit	max.	139 kg

Materials

Pump housing	EN-GJL-250
Impeller	EN-GJL-250

Motor

Motor name	FK 17.1-4/16K
Number of poles	4
Rated power	7.6 kW
Rated speed	1700 1/min
Power input with rated power	9.7 kW
Rated voltage	220/440 ~3 V
Current input with rated power	30 A
Efficiency with rated power	78 %
cos phi with rated power	0.86
cos phi with starting	0
Rated frequency	60 Hz
Operation type wet	S1
Operation type dry	S1
Starting current, direct starting	144 A
Starting current, star-delta	48 A
Starting torque	58 Nm
Inertia moment	0.0108 kg m²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	4x4 + 2x1,5 NSSHÖU
Max. fluid temperature	40 °C
Starts per hour max.	15

Duty point data

Volume flow	
Head	
Shaft power P2	
Hydr. efficiency η hyd.	
Power input P1	
Fluid	Water
Required pump NPSH	
Rotational speed	1,723 1/min
Max. flow	31.5 l/s
Head H(Q max)	9.3 m
Shut off head	20.7 m
Best efficiency point Q (BEP)	22.5 l/s
Best efficiency point H (BEP)	12.1 m
Total efficiency	$= \frac{P_2 * \text{Hydr. efficiency } \eta \text{ hyd.}}{P}$

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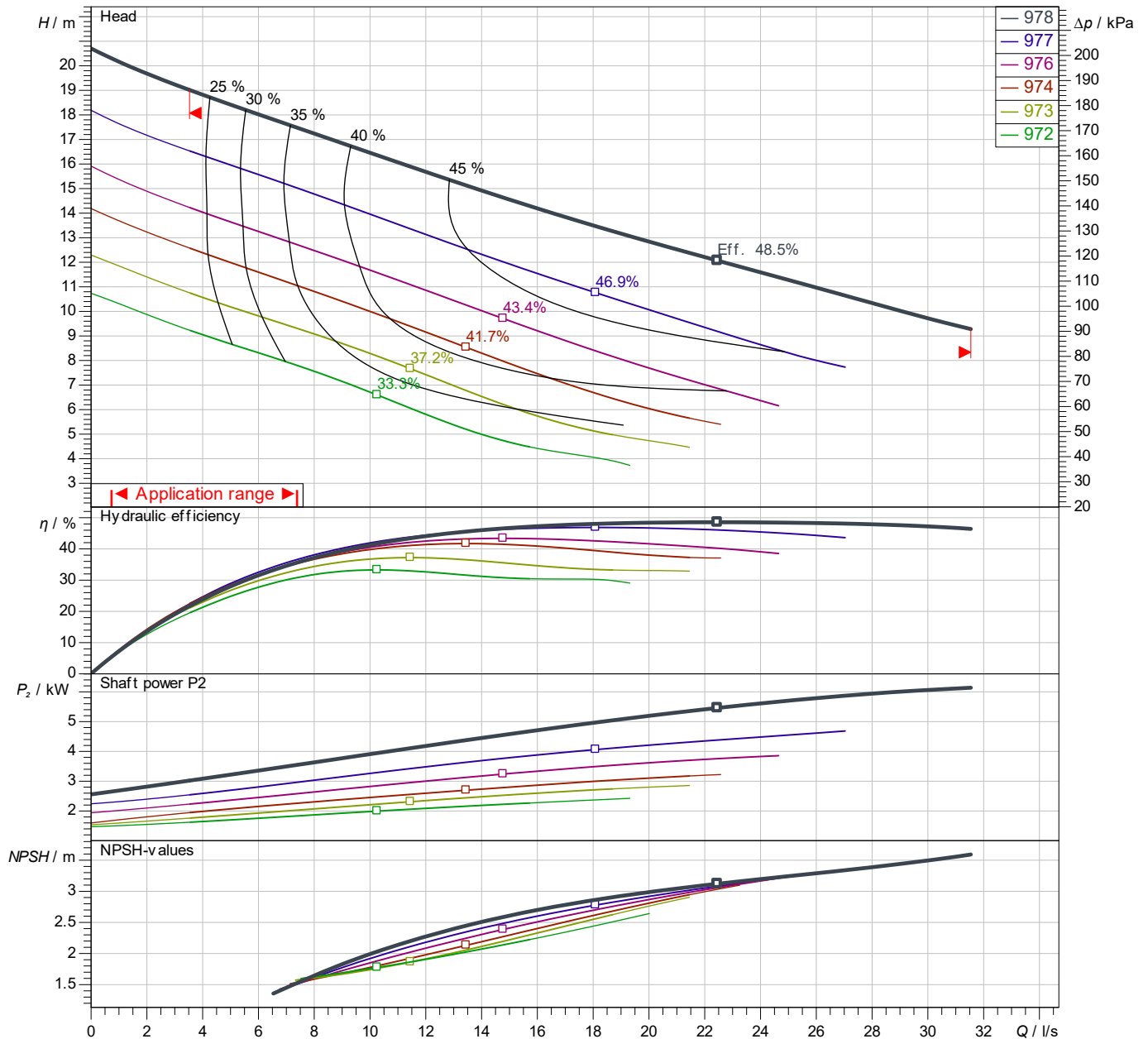
Installation location

Date 2025-03-05

Tender text

Submersible sewage pump as floodable, single-stage block unit in stationary, vertical installation for pumping of untreated sewage, which attacks the pumps neither chemically nor mechanically. Pump with radially arranged discharge piece and axial pump intake. Service-friendly unit structure by separated motor and pump housing unit. The duty values must be guaranteed according to ISO 9906, class 2B.

Submersible motor in pressure-resistant design, with internal, hermetically-tight active cooling with highly efficient heat exchanger, double mechanical shaft seal in EMU block design, as well as separate sealing chamber. The motor chamber and the sealing chamber are filled with medical white oil. Motor sealing at the shaft by a double, wear-resistant mechanical shaft seal independent of the direction of rotation entirely made of silicon-carbide as closed unit in EMU sealing cartridge of stainless steel with intermediate separation chamber and additional shaft sealing ring. Both seals are cooled and lubricated. The motor chamber is equipped with connecting terminals. Protection of the motor winding by thermistors installed. Both closed ball bearings are maintenance-free and filled with high-quality grease. All casing parts are of cast iron. Shaft and connecting elements are of stainless steel. The motor is suitable for continuous operation (s1) under full load in immersed and completely emerged condition.



Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s
Tolerance as per ISO 9906 / Annex A.2

Pump

Impeller Ø	designed	205 mm
Nominal speed		1,700 1/min
Frequency		60 Hz
Impeller type		Vortex impeller

Motor

Rated power	7.6 kW
Sel. explosion protection	

Duty point data

Volume flow	
Head	
Shaft power P2	
Hydr. efficiency η hyd.	
Power input P1	
Required pump NPSH	
Rotational speed	1723 1/min

Dimensions

Rexa SUPRA-V08-97

With motor

FK 17.1-4/16K

Project ID

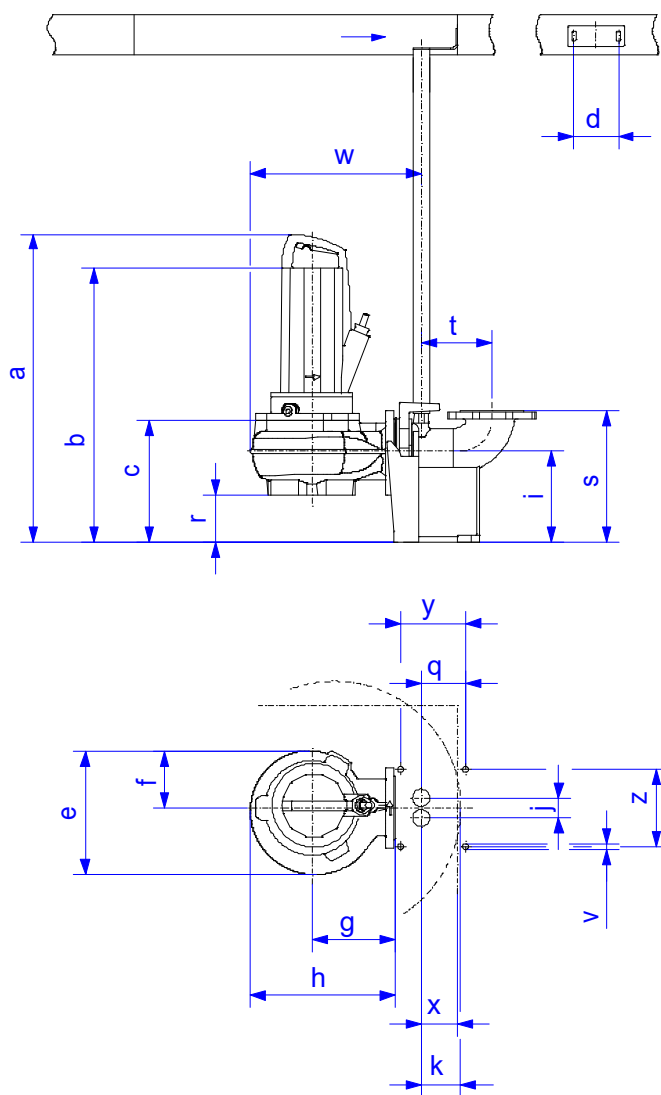
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Dimensions

Name	Value	Name	Value
a	1,041 mm	k	98 mm
b = min. water level	281 mm	q	69 mm
c	281 mm	r	113 mm
d	110 mm	s	300 mm
e	340 mm	t	166 mm
f	170 mm	v	15 mm
g	220 mm	w	439 mm
h	374 mm	x	90 mm
i	210 mm	y	120 mm
j	50 mm	z	170 mm

Connections

Suction port	DN80 PN10
Discharge port	DN80 PN10
Suspension device 1	DN80/2RK