Munsch Chemie-Pumpen GmbH
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Data Sheet
Munsch Chemical-Pump

Serial-No's:

01	Customer: **IMPEXRON GmbH**	Designation: **Close-Coupled Chemical Pump**	Quotation-No.: **P079237** Pos.: **10**
02	Customer-No.: **19040**	Type/ Size: **NP-B 65- 50-125**	Contact: **Jürgen Singhof**
03	Enquiry-No. **E-Mail**	Main Material: **PE - UHMW**	MUNSCH-Order-No.:
04	Date: **30.06.2021**	Delivery: **without baseplate**	Quantity: **1**
05	Reference: **694014 - Ersatz für W23971/8/97**		Revision: of
06	Name:		
07	Customer-Item-No.:		

Site / Environment

08	Installation: **Indoor**	Altitude: m	Site condition: **-**
09	Details:	Ex-zone:-	Ambient temperature min/max.: / °C

Liquid

10	Liquid: **Waste water**	Description: **acidic**	
11	Components:	Solids: **Traces**	Operating temperature: **20.0** °C
12	1 % g/l	Solid content: % g/l	Operat. temp. min/max: / °C
13	2 % g/l	Solid size: mm	Density: **1.00** kg/dm³
14	3 % g/l	**fiber particles**	Vapour pressure: bar
15	pH-value at top: min: max		Dynamic viscosity: mPas

Operating conditions

16	Flow rated: **15.0** m³/h	Total head rated: **6.0** m	Design speed: **1750** 1/min
17	Flow min./max.: **3.0** / **25.0** m³/h	Total head min./max.: m m	Rotation (1): **cw**
18	Flow min.required: m³/h	Inlet gauge pressure: bar	Power consumption P: **0.63** kW
19	NPSH available: m	Outlet gauge pressure: bar	Efficiency: **39.04** %
20	NPSH required: **2.1** m	Differential pressure: **0.59** bar	P_{max} at rated Impeller-ϕ: kW
21	Frequency inverter operation: **-**		P_{max} at max. Impeller-ϕ: kW

Construction features

22	Flange connection: **EN 1092-2, PN 16**	Impeller design: **semi-open B2**			Bearing bracket:
23	Inlet flange: **DN 65**	Impeller-ϕ min./max.: **100.0** / **140.0** mm			Bearing lubrication:
24	Outlet flange: **DN 50**	Impeller-ϕ rated: **130.0** actual: mm			Radial bearing:
25	Pump Casing (seal): **O-ring**	Balancing hole(s): **with**			Axial bearing:
26	Drain connection: **-**	Back vanes: **-**			**For magnetically coupled pumps only:**
27	Mechanical Seal: **Single mechanical seal**	Flushing holes (casing cover): **-**			Magnetic coupling:
28	Seal type: **MUNSCH-REA-F**	Flushing	Rate	Pressure	
29	-	Spring chamber:	l/min	bar	Ext. flushing of plain bearing (1):
30	Pump interior: **-**	Pump interior:	l/min	bar	Connection:

Accessories

31	Coupling:	Coupling guard:			Foundation fixing: **-**
32	Type:	Base plate: **-**		**-**	Anchor bolts: **-**
33	Size: Spacer length: mm	Earthing lugs: **-**			Foundation bolts: **-**
34	UV-protection casing: **-**	Levelling bolts: **-**			Priming pot: **-**
35		Drip pan: **-**			Add. name plate: **-**

Materials

36	Pump casing: **PE - UHMW**	Secondary seals: **FPM**			Connecting bolts: **Stainless steel**
37	Casing cover: **PE - UHMW**	Casing seal (O-Ring): **FPM**			Studs: **Stainless steel**
38	Impeller: **PE - UHMW**	Impeller screw: **FPM**			Mechanical Seal
39	Pump shaft: **9 S Mn Pb 28**	O-Rings Mechanical Seal			Stationary / rotating seal ring Product: **SSIC /SSIC**
40	Intermediate lantern: **Cast iron**	dynamic (412.2): **FPM**			Stationary / rotating seal ring Atm.: **-**
41	Material compl. with FDA:	static (412.3): **FPM**			Shaft sleeve Product side: **SS, PVDF coated**
42	Coupling guard:				Shaft sleeve Atmos. side: **SS, PVDF coated**

Driver

43	Delivery: **with motor**	Nominal power: **1.3** kW			Nominal current at 400 V: A
44	- supplied by: **Munsch**	Nominal speed: **1750** 1/min			Start-up current: A
45	- mounted by: **Munsch**	Frequency: **60** Hz			cos φ:
46	Manufacturer: **EC-Manufacturer**	Voltage: **440** V			Enclosure: **IP 55**
47	Standard: **IEC**	Thermistors: **3 Thermistors**			Insulation class: **F**
48	Hazard designation: **-**	VIK-design: **-**			Anticondensation heaters: **-**
49	Design: **IM B3/B5**	Efficiency class: **IE3**			Located bearing: **with**
50	Frame size: **90 S**	Location terminal box(2): **top**			Sound pressure level: db(A)

Painting specification

51	Painting on 2-component epoxy basis, 2-3 layers	Pump: **RAL 7044**			Coupling guard:
52	Total dry-film thickness: **130 - 150** µm	Motor: **motor manufacturer´s standard**			Base plate: **-**

Special painting, special documentation and additional tests are possible upon request

Remarks: **Replacement for previous supply W23971, however according to current standard.**

(1) viewed from driver to pump (2) viewed from pump to driver

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Dimension Drawing
Munsch Chemical-Pump

Serial-No's:

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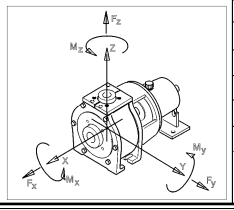
54	Enquiry-No. **E-Mail**	Type / Size:	**NP-B 65- 50-125**	Contact: **Jürgen Singhof**	
55	Reference: **694014 - Ersatz für W23971/8/97**	Main Material:	**PE - UHMW**	Quantity: **1**	
56	Name:			Revision:	of
57	Customer-Item-No.:			Nominal power: **1.3** kW	Speed: **1750** 1/min

Connection Dimensions

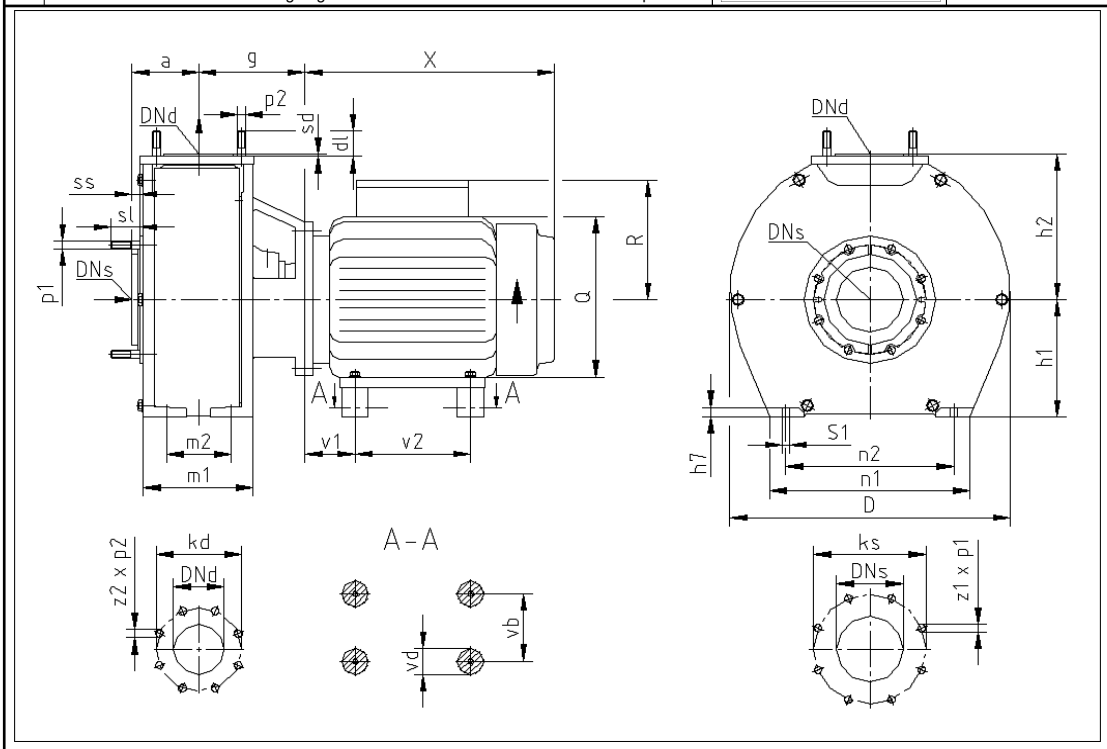
58	Connection: **EN 1092-2, PN 16**			Priming pot			
59	DN_S:	**DN 65**	DN_d:	**DN 50**	DN_{S2}	-	
60	z1:	**4**	z2:	**4**	z3:		
61	p1:	**M 16**	p2:	**M 16**	p3:		
62	ks:	**145.0** mm	kd:	**125.0** mm	ks2:		mm
63	ss:	**11.5** mm	sd:	**5.0** mm	Ds:		mm
64	sl:	**70.0** mm	dl:	**60.0** mm	h_4:		mm
65	Studs are dimensioned for backing rings and stub ends acc. to DIN 16 962 / 16 963 part 4						

Forces and Moments



DN	F_x [N]	F_y [N]	F_z [N]	ΣF [N]
DN 65	**735**	**650**	**595**	**1145**
DN 50	**525**	**470**	**580**	**915**
	M_x [Nm]	M_y [Nm]	M_z [Nm]	ΣM [Nm]
DN 65	**525**	**385**	**420**	**775**
DN 50	**490**	**350**	**405**	**725**

Forces and moments from pipe system to pump are to be kept as low as possible. They must not exceed the values.



$h1_P$: **112.0** mm
$h1_M$: **90.0** mm
The motor will be supported by distance blocks

Picture: **15101000000**

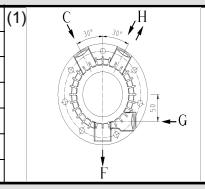
Main Dimensions (Tolerances of connection dimensions of the pump according to EN 735)

66	a:	**80.0** mm	n_1:	**240.0** mm	Close-coupled Pump		Motor		Bareshaft pump				
67	g:	**186.0** mm	n_2:	**190.0** mm	v_1:	**56.0** mm	Q:	**172.0** mm	w:	mm	b_4:	mm	
68	D:	**246.0** mm	m_1:	**145.0** mm	v_2:	**100.0** mm	R:	**128.0** mm	ϕ d:	mm	h_6:	mm	
69	h_1:	**112.0** mm	m_2:	**70.0** mm	vb:	**140.0** mm	X:	**331.0** mm	l:	mm	n_3:	mm	
70	h_2:	**140.0** mm	S_1:	**14.0** mm	vd:	**50.0** mm	ϕ F:	mm	pb:	mm	S_2:	mm	
71	ts:	mm	h_7:	**13.0** mm	v:	mm	Motor dimensions similar to european standard		u:	mm	sf_1:	mm	
72	td:	mm	Re:	-							sf_2:	mm	
73			y:	mm									

Accessories

74	Base plate				Coupling		Priming pot		Installation	Anchor bolts	
75	l_1:	mm	b_1:	mm	sp:	mm	a_1:	mm		-	/ -
76	l_2:	mm	b_2:	mm	s:	mm	a_2:	mm		Foundation bolts	
77	l_3:	mm	b_3:	mm	ϕ d_P:	mm	d_4:	mm		-	
78	l_4:	mm	h_3:	mm	ϕ d_M:	mm	H:	mm		Leveling elements	
79	ϕ d_1:	mm	h_5:	mm			h_8:	mm		d_2:	mm
80	F_1:	mm	F_2:	mm			av:	mm		hn:	- mm
81	A:	mm	bn:	mm			$h_{1.V}$:	mm		hn_{max}:	mm

Flushing connection



82	Seal type:	**MUNSCH-REA-F**	
83	Spring chamber	-	
84	Inlet: -	Connection: -	
85	Outlet: -	Connection: -	
86	Pump interior:	-	
87	Inlet: -	Connection: -	
88			

Special Measures, Remarks

-

Weights

89	Pump:	**30.00** kg	Coupling:	kg	Length:	**655.5** mm	P2Plus 4.2
90	Motor:	**13.20** kg	Priming pot:	kg	Width:	**246.0** mm	Technical and dimensional details may be subject to changes.
91	Baseplate:	kg	Total weight:	**43.20** kg	Height:	**307.0** mm	

(1) viewed from driver to pump (2) viewed from pump to driver

Angebots-Nr./Offer-No./No. de l'offre P079237	Projekt-Namen/Projectname/Nom de project Standard-Projekt
Bearbeiter/Originator/Nom SJ	Datum/Date/Date 02.07.2021
Position/Position/Position 10	Bezeichnung/Remark/Remarque
Pumpentyp/Pumptype/Type de la pompe NP-B 65-50-125	Pumpenname/Pumpname/Nom de la pompe
Laufrad/Impeller/Roue semi-open	Drehzahl/Speed/Vitesse 1750 [1/min]

MUNSCH
Kunststoff-Pumpen für aggressive Medien

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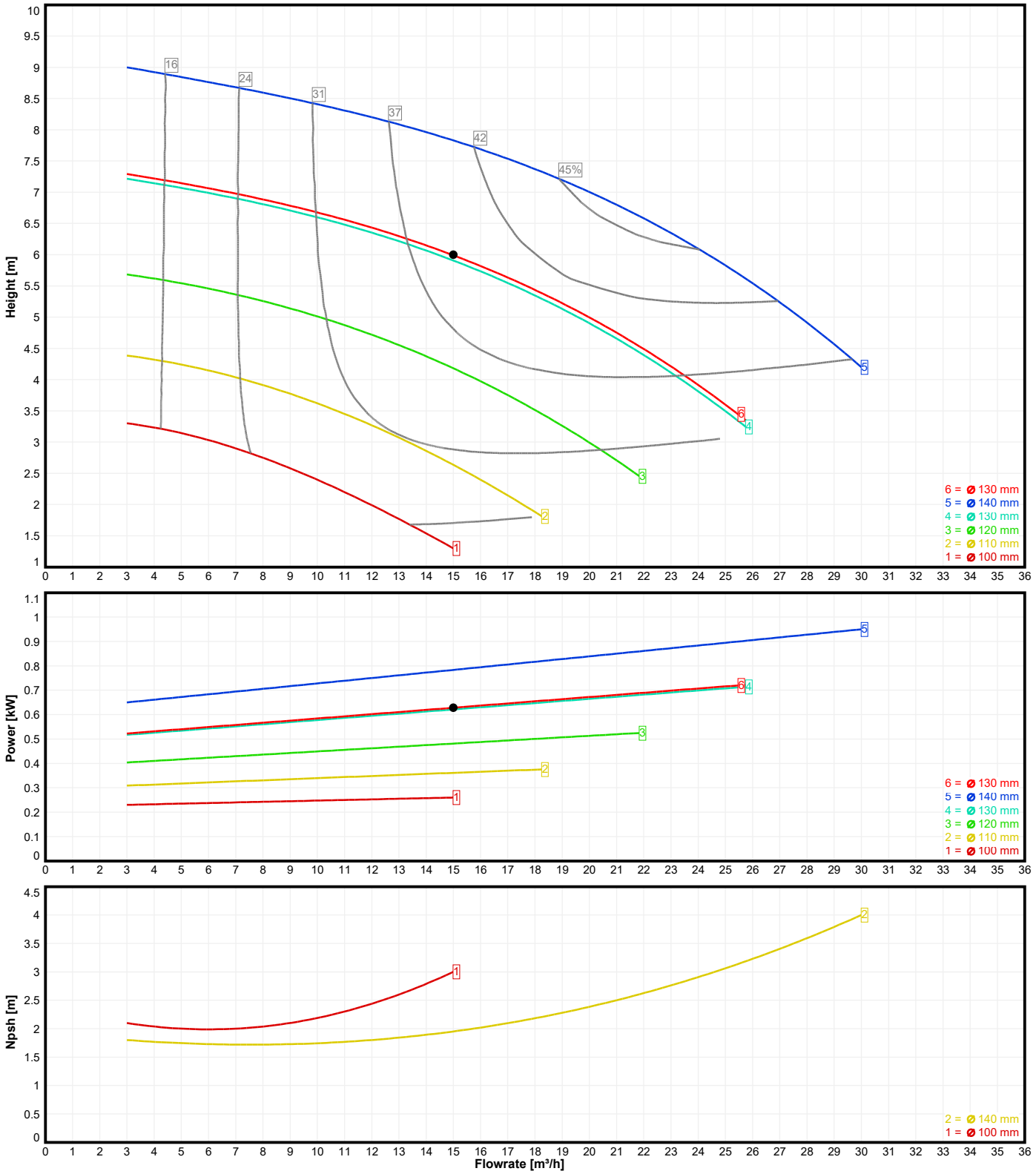

Betriebspunkt/Point of work/Point de travail Q=15.00m³/h, H=6.00m, P=0.63kW, P*(1.00kg/dm³)=0.63kW, Eta=39.0%, NPSH=2.10m
Kennlinien-Id/Identity of Data/Identité des dates A04031
Leistungsdaten bezogen auf Wasser bei Raumtemperatur/Performance data refer to water at ambient temperature/Courbes valables pour de l'eau à température ambiante Technische Änderungen vorbehalten/Performance data are subject to alteration/Sous réserve de modification technique