

Technical Data

Pump Name

OYM 4N7-8/1.1

Customer	Date	2024-06-16	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-16 15:45:44	E-mail

Requested data

1	Pump type	SUBMERSIBLE MULTISTAGE PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h		Kin. viscosity mm²/s	1.005
4	Head m		Vapour pressure bar	0.0234
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump Name	OYM 4N7-8/1.1	Frequency	Hz	50
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type		with EBARA MOTOR OIL - three phase
11	Manufacturer	EBARA	Impeller Diameter	Max. mm	74
12	Speed rpm	2850		Designed mm	74
13	No. of Stage	8		Min. mm	74
14	Connection Suction side		Flow	Operating m³/h	
15	Connection Discharge side	UNI ISO 228		Max- m³/h	9.6
16	Max Working Pressure bar			Min- m³/h	3
17	Shut-off head bar	4.90	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	15.0
19	Shaft power kW			- (Qmin.) m	44.2
20			Max. Shaft Power at max. impeller	kW	0.79
21	Required pump NPSH m		Efficiency	%	

Materials

22	Impeller	1xef		
23	Intermediate casing	EN 1.4301 (AISI 304)		
24	Shaft	EN 1.4301 (AISI 304)		
25				
26				
27				

Motor

28	Manufacturer	EBARA MOTOR	Insulation class	F
29	Type	4N7-8/1.1_230_Single Phase	Phases	1~
30	Specific design	Submersible oil filled type / 50 Hz / Pole pairs 1	Frame size	4"
31	Rated power kW	1.1	Weight kg	10.3
32	Number of poles	2	Electric voltage V	230
33	Speed rpm	2855	Electric current A	8.2
34	Degree of protection	IP 58		
35				

Remarks

Performance Curve

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Requested data

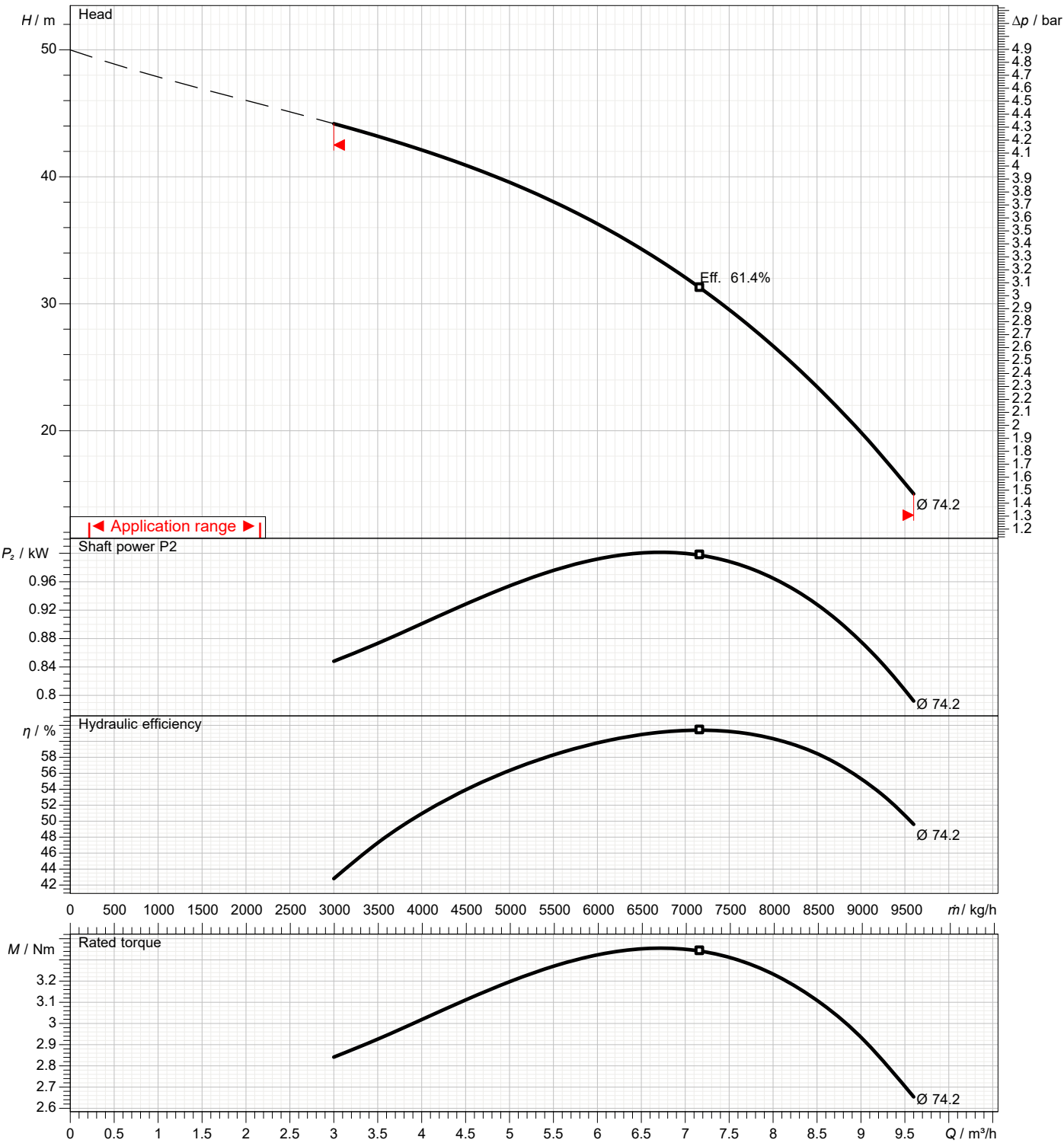
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	74	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

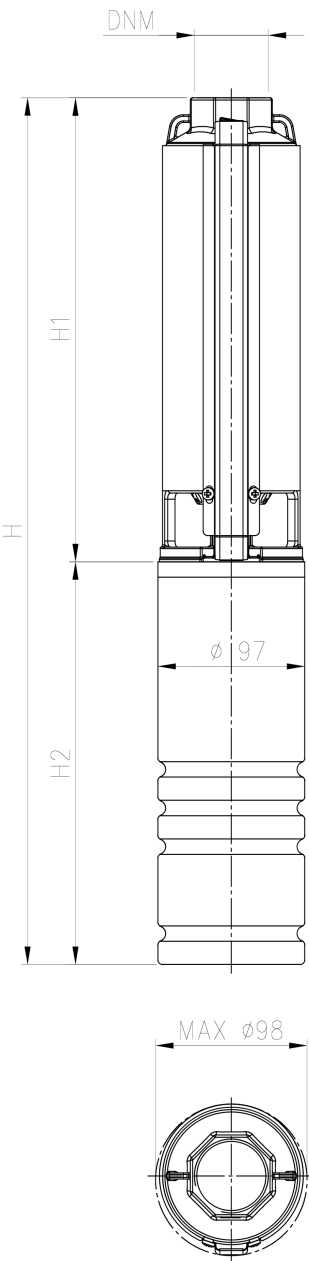
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	DNM	G 2					
2	H	777					
3	H1	427					
4	H2	350					
5	Weight P&M	11,2 kg					
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

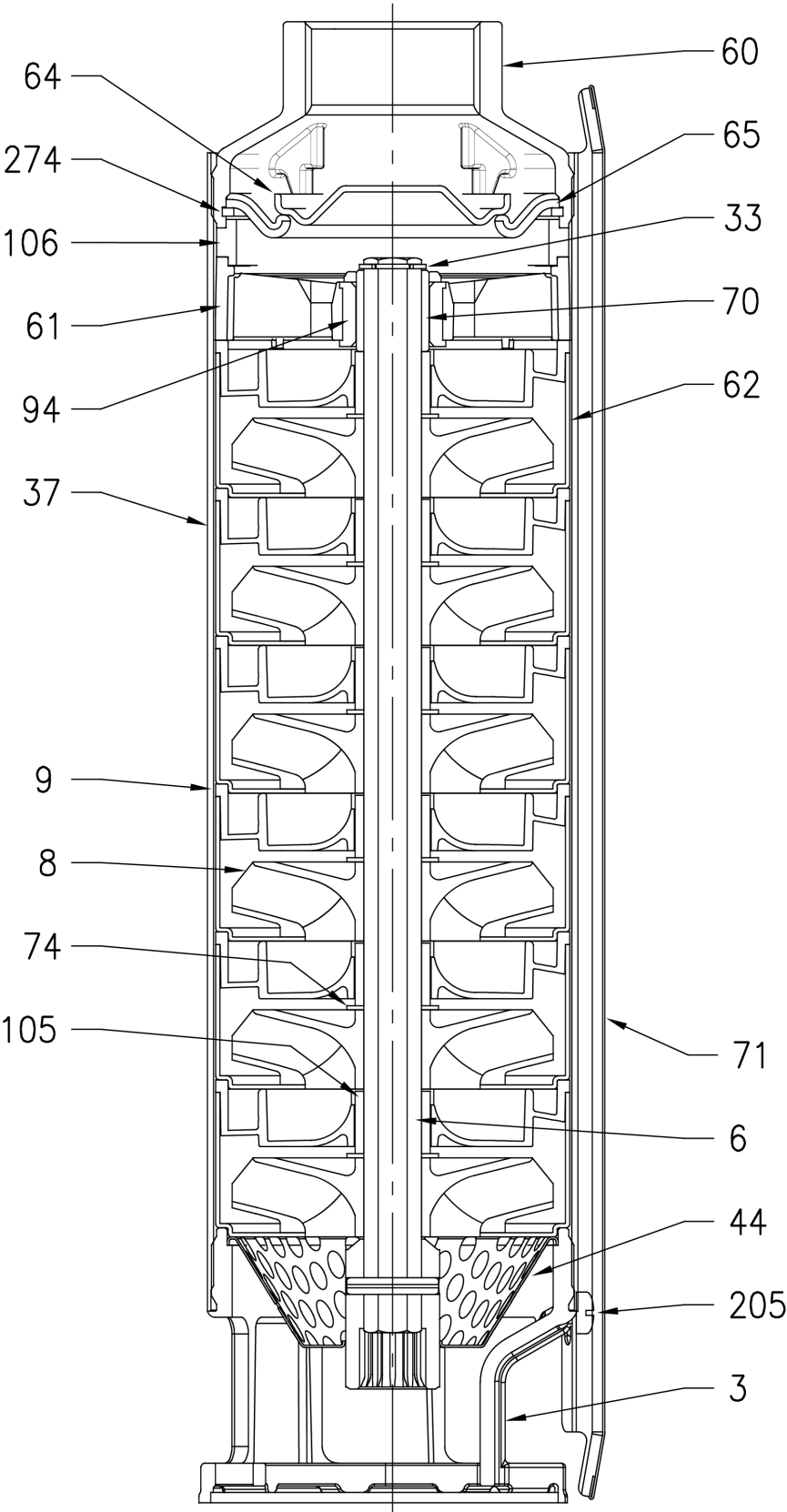
(1/3)

Construction

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(2/3)

Construction

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N°	PART NAME	MATERIAL	Q.TY
3	Bracket	EN 1.4308 (ASTM CF8)	1
6	Pump shaft with coupling	EN 1.4301 (AISI 304)	1
8	Impeller	Ixef®	[*]
9	Diffuser	PPE+PS Glass fibre reinforced	[*]
33	Elastic Ring	EN 1.4301 (AISI 304)	1
37	Outer casing	EN 1.4301 (AISI 304)	[*]
44	Strainer	EN 1.4301 (AISI 304)	1
60	Discharge casing	EN 1.4308 (ASTM CF8)	1
61	Upper / Intermediate bracket	PPE+PS Glass fibre reinforced	[*]
62	Stage housing	EN 1.4301 (AISI 304)	[*]
64	Valve	EN 1.4301 (AISI 304)	1
65	Valve seat	EN 1.4301 (AISI 304) + EPDM Rubber	1
70	Shaft sleeve bearing	Alumina (Ceramic)	[*]
71	Cable guard	EN 1.4301 (AISI 304)	1
74	Thrust washer	EN 1.4301 (AISI 304)	[*]
94	Bearing	EPDM Rubber	[*]
105	Spacer	PPE+PS Glass fibre reinforced	[*]
106	Spacer	NORYL+GF20%	1
205	Screw (M4 x 6 UNI 7687)	EN 1.4301 (AISI 304)	2
274	Elastic Ring	EN 1.4310 (AISI 302)	1

[*] See **CONSTRUCTION 3**

(3/3)

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Pump type	N° 3A Join ring	N° 8 Impeller	N° 9 Diffuser	N° 37 Outer casing	N° 61 Upper / Intermediate bracket	N° 62 Stage housing	N° 70 Shaft sleeve bearing	N° 73 Thrust washer first impeller	N° 74 Thrust washer	N° 94 Bearing	N° 105 Spacer
4N7-4	-	4	4	1	1	4	1	-	4	1	4
4N7-6	-	6	6	1	1	6	1	-	6	1	6
4N7-8	-	8	8	1	1	8	1	-	8	1	8
4N7-12	-	12	12	1	1	12	1	-	12	1	12
4N7-17	-	17	17	1	1	17	1	-	17	1	17
4N7-23	-	23	23	1	1	23	1	-	23	1	23
4N7-30	1	30	30	2	2	30	2	-	30	2	33
4N7-42	1	42	42	2	2	42	2	-	42	2	45