



Customer : ETATRON UKRAINA
 LLC
 Reference :

Pump Performance Datasheet
 MPumps Selection System 25.4.4

Item number	: 001	Size	: CL MAG-M 50-32-200
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: 12254
Quote number	: 35758	Date last saved	: 03 Oct 2025 1:48 PM

Operating Conditions

Flow, rated	: 25.00 m3/h
Differential head / pressure, rated (requested)	: 45.00 m
Differential head / pressure, rated (actual)	: 45.09 m
Suction pressure, rated / max	: 0.00 / 0.00 bar.g
NPSH available, rated	: Ample
Site Supply Frequency	: 50 Hz

Liquid

Liquid type	: Sulfamic Acid [97.00 %]
Additional liquid description	:
Solids diameter, max	: 0.00 mm
Solids concentration, by volume	: 0.00 %
Temperature, max	: 20.00 deg C
Fluid density, rated / max	: 1.000 / 1.000 kg/dm3
Viscosity, rated	: 1.83 cSt
Vapor pressure, rated	: 0.00 bar.a

Performance

Speed criteria	: Synchronous
Speed, rated	: 2900 rpm
Impeller diameter, rated	: 180 mm
Impeller diameter, maximum	: 209 mm
Impeller diameter, minimum	: 170 mm
Efficiency (total / pump)	: 52.62 / 52.62 %
NPSH required / margin required	: 2.41 / 0.00 m
Ns (imp. eye flow) / Nss (imp. eye flow)	: 676 / 5,771 US Units
MCSF	: 5.00 m3/h
Head, maximum, rated diameter	: 49.14 m
Head rise to shutoff	: 8.66 %
Flow, best eff. point	: 30.52 m3/h
Flow ratio, rated / BEP	: 81.92 %
Diameter ratio (rated / max)	: 86.12 %
Head ratio (rated dia / max dia)	: 71.83 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Material

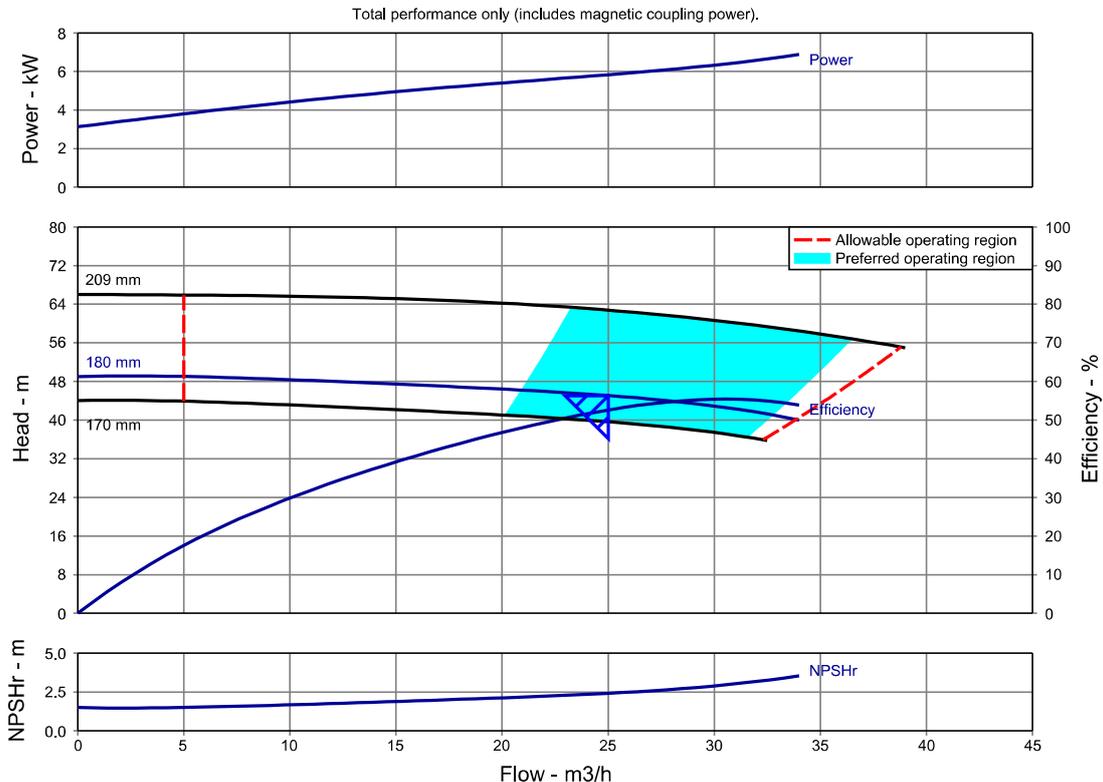
Material selected	: GGG 40.3 lined PFA
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Pressure Data

Maximum working pressure	: 4.82 bar.g
Maximum allowable working pressure	: 16.00 bar.g
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Magnetic losses	: 0.00 kW
Power (total / pump)	: 5.83 / 5.83 kW
Power, maximum, rated diameter	: 6.88 kW
Minimum recommended motor rating	: 7.50 kW / 10.06 hp



Construction Datasheet

1	Customer	: ETATRON UKRAINA LLC	Quote number	: 35758
2	Customer reference	:	Item number	: 001
3	Project name	: -	Standard 1	: Sub-ISO
4	Service	: -	Standard 2	: -
5	Quantity	: 1	Standard 3	: -
Pump design			Application data	
7	Flange	Standard	Size	PN
8	Suction	ISO	50	16
9	Discharge	ISO	32	16
10	Pump PN	16		
11	Model	CL MAG-M		
12	Size	32 - 200		
13	Execution	Close coupled		
14	Type	Centrifugal single stage		
15	Sealing type	Mag drive		
16	Connection	Flanged		
17	Stages	1		
18	Impeller type	Closed		
19	Casing split	Axial		
20	Casing type	Single volute		
21	Rotation (from motor side)	Counter-Clockwise		
Materials			Driver	
23	- Pump Casing	GGG 40,3 lined PFA		
24	- Impeller	Cast Iron / PFA		
25	- Isolation Shell	PTFE / FC		
26	- Gasket	PTFE (Standard)		
27	- Shaft	-		
28	- Internal Magnet	PFA		
29	- External Magnet	PFA		
30	- Shaft Support	WCB/PFA		
31	- Sleeve Bearings	SiC - SiC		
32	- Stationary Bearings	SiC - SiC		
33	- Thrust Bearings	SiC		
34	- O-Ring	FFKM		
35	- Pump Bracket	ASTM WCB A216 (Standard)		
23	Brand	Electro Adda		
24	Type	IEC		
25	Efficiency class	IE3		
26	Frame size	132SB		
27	Face	B5		
28	Power	7.50 kW		
29	Power supply	400V		
30	Frequency	50 Hz		
31	RPM nominal	2900 rpm		
32	Enclosure	TEFC		
33	Insulation	F		
34	Adapter Flange	I° Range - motor size 132		
Baseplate and coupling			Painting	
37	Baseplate Type	None		
38	Baseplate Material	*N/A		
39	Coupling Manufacturer	*N/A		
40	Coupling Type	*N/A		
41	Coupling Size	*N/A		
42	Coupling Guard	*N/A		
43	Spacer Length	*N/A		
37	Pump painting grade	C4 HIGH		
38	Pump RAL	5015		
39	Driver painting grade	C2		
40	Driver RAL	7030		
41	Baseplate painting grade	*N/A		
42	Baseplate RAL	*N/A		
43	Notes	-		
Bearing Bracket			Weight	
45	Bearing type DE	*N/A		
46	Bearing type NDE	*N/A		
47	Lubrication	*N/A		
48	Sealing type	*N/A		
49		*N/A = Not applicable on this product.		
45	Pump weight	61.00 kg		
46	Baseplate weight	-		
47	Motor weight	78.00 kg		
48	Total weight	139.0 kg		
49		All weights are to be verified.		
Pump options			Pump accessories	
51	Pump opt 1	---		
52	Pump opt 2	---		
53	Pump opt 3	---		
51	Pump acc 1	---		
52	Pump acc 2	---		
53	Pump acc 3	---		

