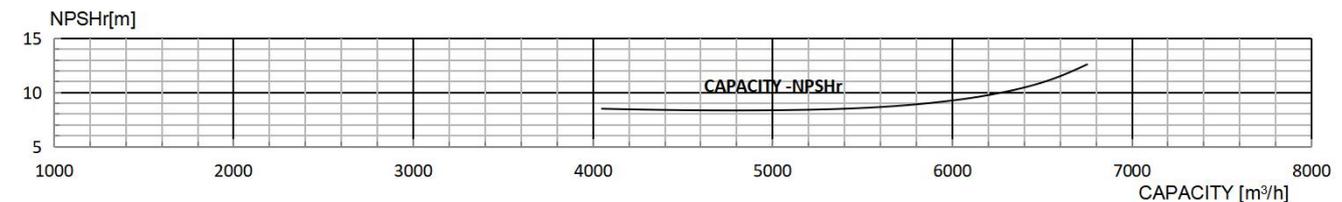
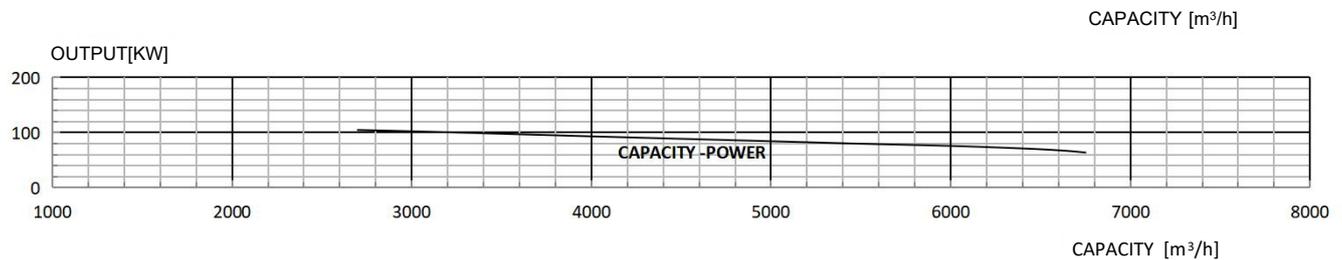
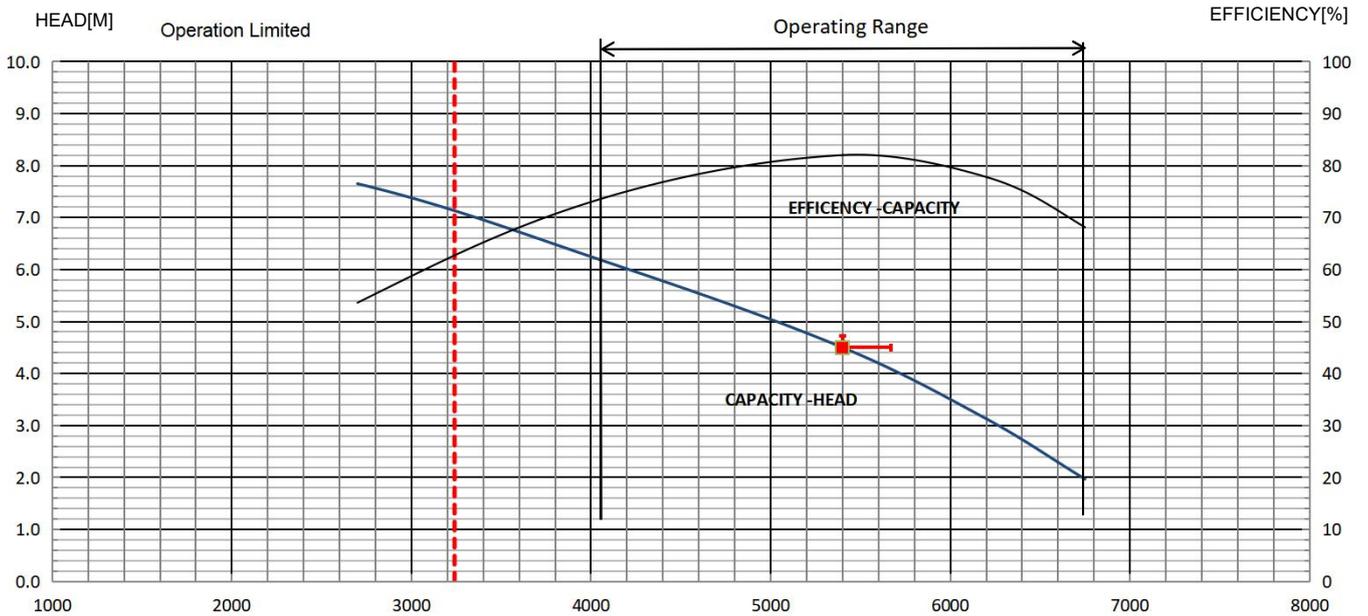


Customer		PUMP			HYDAULIC MOTOR		
Location	N/A	Capacity	5400	m <sup>3</sup> /h	Hydraulic motor type	Rexroth Vane type MV037	
Plant No.	N/A	Total Head	4.5	m	Max displacement	606	Cm <sup>2</sup> /rev
Service	Water Supply	Dischage Size	600	mm	Max speed	1000	rpm
Pump Type	Axial Flow pump	Revolution	740	RPM	Continuous pressure	31	Mpa
Quantity	1 Sets	NPSH <sub>0</sub>	8.5	m	Intermittent pressure	34.5	Mpa
Item No.	N/A	Impeller Size & Type	600 mm & Axial flow		Max torque at 20.7Mpa	1783	N.M
Approved by	ERIK PUMP	Impeller Stage	1		Max torque at 31Mpa	2721	N.M

CURVES ARE APPROXIMATE, PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS; CAPACITY, HEAD, AND EFFICIENCY. Final interpretation belong to ERIK PUMP. MCSF PROVIDES MECHANICAL PROTECTION ONLY. MINIMUM THERMAL FLOW MUST BE CALCULATED FOR THE SPECIFIC FLUID AND OPERATING CONDITIONS.



**REMARKS :**

Pump efficiency	82.00	[%]
Hydraulic system efficiency	86.00	[%]
Overall efficiency	70.52	[%]

**NOTES :**

PUMP HEAD AND POWER RATING APPLY TO MEDIUM LIQUID WITH THE DENSITY IS 1kg/dm<sup>3</sup> AND THE KINETIC VISCOSITY IS 20 MM/S<sup>2</sup> WHERE AN ITEM DOESN'T APPLY SHOW N/A.

## Pump Data Sheet

Customer	:		Pump Stages	:	1	Stage	
Project name	:	N/A	Quantity	:	4	Sets	
Item number	:	N/A	Based on curve no.	:	161603348		
Pump type	:	Axial Flow pump	Manufacture	:	ERIKPUMP		
Service	:	Water Supply	Date	:	2026/3/11 18:07		

Primary Operating Conditions(customer to complete)			Materials / Specification			
Capacity @ Temp	: 5400	m <sup>3</sup> /h@25°C	Pump casing	: ASTM A242	Stuffing box	: ASTM A242
Liquid gravity	: 1.0	kg/cm <sup>3</sup>	Impeller	: ASTM A304	Casing bolts	: SS 304
Normal capacity	: 5400	m <sup>3</sup> /h	Shaft	: ASTM 420	Mechanical seal	: YES
Total developed head	: 4.5	m	Suction bell	: ASTM A242	Bearing support	: Carbon steel
Water head(CH=1.00)	: N/A	m	Shaft sleeve	: N/A	Bearing	: NTN#7317B/DT
NPSH available (NPSHa)	: 10	m	Guide vane	: ASTM A242	Impller nut	: SS 420
NPSHa less NPSH margin	: 2	m	Wear ring	: SS 304	Casing nuts	: SS 304
Maximum suction pressure	: N/A	kPa.g	<b>Other Requirements</b>			
Discharge pressure	: N/A	kPa.g	Hydraulic selection	:	No specification	
Differential pressure	: 4.5	m	Construction	:	No specification	
Pump seal	:	Mechanical seal	Test tolerance	:	ISO 9906 Grade 2B	

Liquid			Speed Set		
Liquid type	:	Storm water	Speed Set	:	740 rpm
Temperature / Spec. Gravity	:	<50 /1.0 °C / kg/cm <sup>3</sup>	Driver Sizing	:	Max Power(MCSF to EOC)with SF
Solid Size - Actual / Limit	:	50 mm	Seal configuration	:	Mechanical seal
Min water level	:	1.6 m	Running speed range	:	600-800 rpm
			Seal configuration	:	Mechanical seal

Hydraulic system pump Performance			Axial flow pump Performance		
Hydraulic pump type	:	VELJAN Vane Type VT Series	Impeller type	:	Propeller axial flow
Rate pressure	:	20.7 Mpa	Rated Impeller diameter	:	600 mm
Max displacement	:	246 Cm2/rev	Pump max operation speed	:	800 rpm
Max speed	:	2000 rpm	Pump max operation temperature	:	60 °C
Max torque	:	690 N.M	Suction specific speed	:	350 Unit

Engine Control Panel and Fuel System			Minimum continuous flow		
Maual start /stop system	:	Low oil pressure shut down	Minimum continuous flow	:	3240 m <sup>3</sup> /h
Switch manual /AUTO	:	High temperature shut down	Maximum head @ rated dia	:	5 m
Tachometer	:	High water temperature shut down	Flow at BEP	:	5500 m <sup>3</sup> /h
Warning lights	:	Premium quality 24v Battery	Flow as % of BEP	:	97 %
Hour Counter	:	Over speed shut down	Efficiency at normal flow	:	82.0 %
Running lights	:	Variable speed control	Impeller dia ratio (rated/max)	:	N/A %
Machanical injection fuel	:	With fuel level indicate	Head rise to shut off	:	N/A %
			Total head ratio (rated/max)	:	N/A %

Axial flow pump Construction			Shop testing ( customer to complete)				
Nozzles	Size	Rating pressure	facing	Workshop Test		Witness Test	
Suction (mm)	N/A	N/A	under	Performance test	: Y	Performance test	: N
Discharge (mm)	600	0.6	upper	Hydrolic test	: Y	Hydrolic test	: N
Installation type	:	Flange connection		NPSH test	: N	NPSH test	: N
Shaft seal type	:	singal mechanical seal		Noise test	: Y	Noise test	: N
Shaft seal lubricate	:	Water		Seal test	: Y	Seal test	: N
Painting colour and Thickness	:	Black	210 μ	Shop inspection	: Y	Shop inspection	: N
Mechanical seal leakage sensor	:	On requirment					

Engine Driver (supplier to complete)			Recommditiion spare parts			
Engine manufacture	:	CUMMINS QSB6.7 P260	Mechanical seal	:	1	2 years
Duty rated power	:	183 kw	Propeller and casing wearing	:	1	3 years
Revolution speed	:	1800 rpm	O-ring and Gasket	:	1	2 years
No. of Cylinda	:	6	propeller Nuts	:	1	2 years
Cooling type	:	Radiator	Hydraulic seal parts	:	1	1 years
Cylinder bore	:	107 mm	Shaft	:	1	5 years
Stroke	:	124 mm	Bearing support	:	1	5 years
Speed control	:	Electronic Governor	Bearing	:	1	2 years
Incharge type	:	Turbo	Pump casing	:	1	10 years

NOTES: 1. Hydraulic Oil Tank 700 L, Diesel Fuel Tank 550 L .  
 2. Data sheet based on calculation. Where an item doesn't apply show N/A.