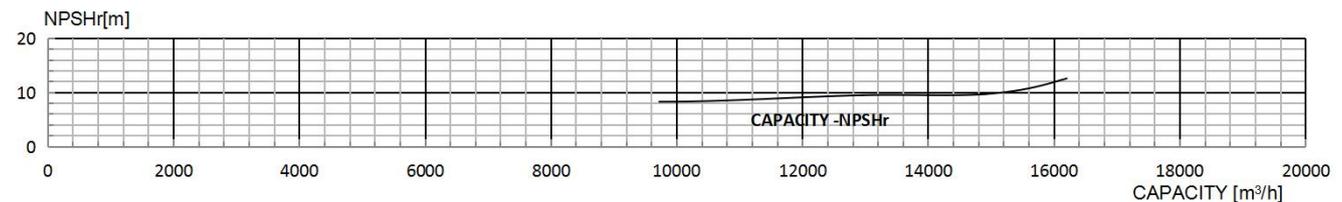
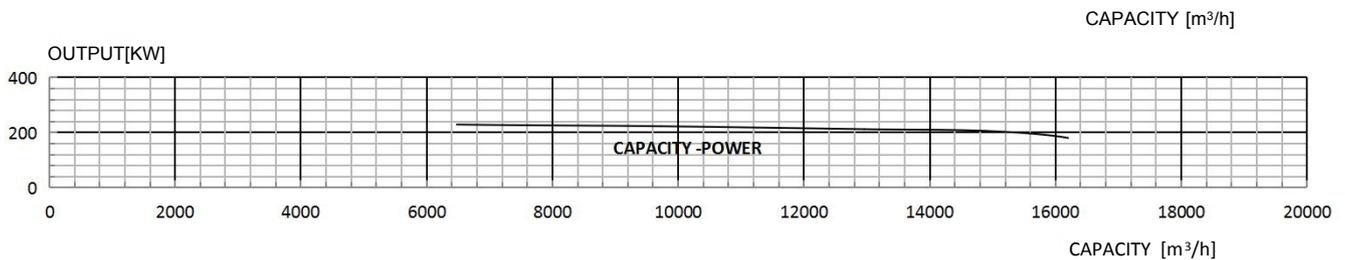
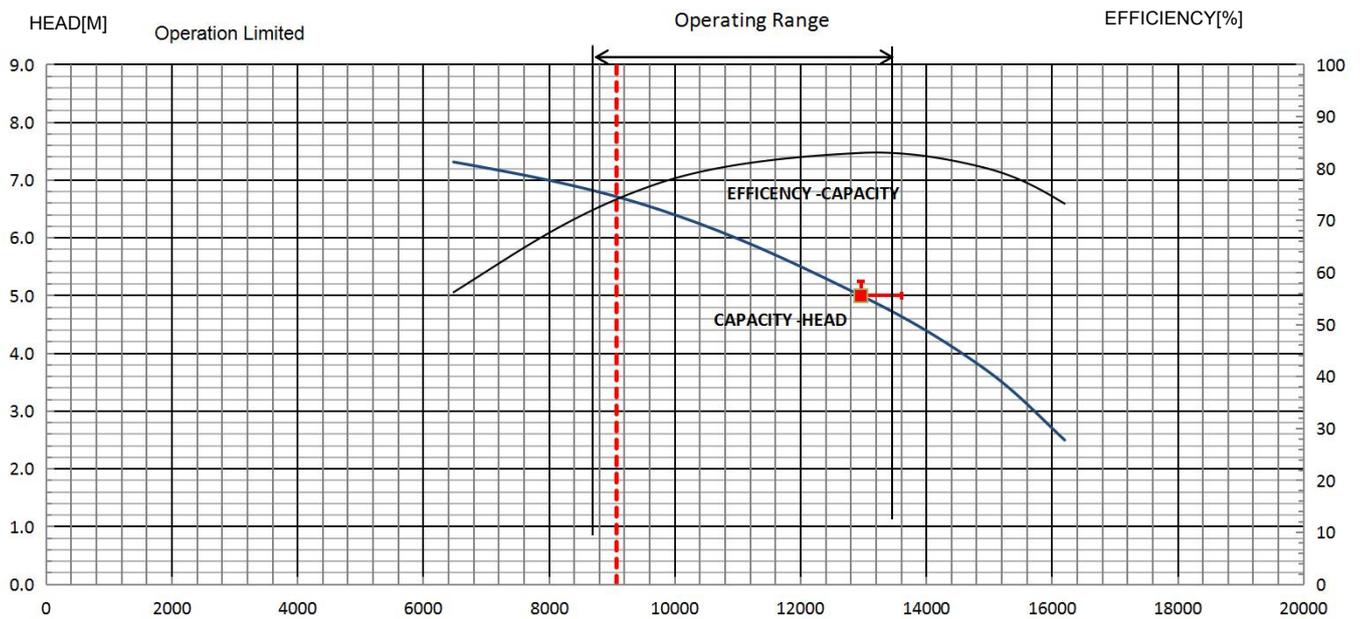


Customer		PUMP			HYDAULIC MOTOR		
Location	N/A	Capacity	12960	m ³ /h	Hydraulic motor type	Piston type A2FM 1000	
Plant No.	N/A	Total Head	5	m	Displacement	1000	Cm ² /rev
Service	Water Supply	Dischage Size	1000	mm	Max speed	1600	rpm
Pump Type	Axial Flow pump	Revolution	490	RPM	Input cpacity (Open loop)	1600	L/MIN
Quantity	1 Sets	NPSH®	9.5	m	Casing volume	8	L/MIN
Item No.	N/A	Impeller Size & Type	900 mm & Axial flow		Torque(35 Mpa)	5570	N.M
Approved by	ERIKPUMP	Impeller Stage	1		Approximate weight	336	Kg

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	83.00	[%]
Hydraulic system efficiency with gear box	82.00	[%]
Overall efficiency	68.06	[%]

NOTES :

PUMP HEAD AND POWER RATING APPLY TO MEDIUM LIQUID WITH THE DENSITY IS 1kg/dm³ AND THE KINETIC VISCOSITY IS 20 MM²/S WHERE AN ITEM DOESN'T APPLY SHOW N/A.

Pump Date Sheet

Customer	:	Pump Stages	:	1	Stage
Project name	:	Quantity	:	10	Sets
Item number	:	Based on curve no.	:	11360421	
Pump type	:	Manufacture	:	ERIKPUMP	
Service	:	Date	:	2022/10/13 13:39	

Primary Operating Conditions(customer to complete)			Materials / Specification		
Capacity @ Temp	: 12960	m ³ /h@25°C	Pump casing	: DIN GG25	Stuffing box : Carbon steel
Liquid gravity	: 1.0	kg/cm ³	Impeller	: SS 304	Casing bolts : SS 304
Normal capacity	: 12960	m ³ /h	Shaft	: SS 420	Mechanical seal : SIC/SIC
Total developed head	: 5	m	Suction bell	: DIN GG25	Bearing support : Carbon steel
Water head(CH=1.00)	: N/A	m	Shaft sleeve	: N/A	Bearing : NTN or NSK
NPSH available (NPSHa)	: 10	m	Guide vane	: DIN GG25	Impller nut : SS 420
NPSHa less NPSH margin	: 2	m	Wear ring	: SS 304	Casing nuts : SS 304

			Other Requirements		
Maximum suction pressure	: N/A	kPa.g	Hydraulic selection	:	No specification
Discharge pressure	: N/A	kPa.g	Construction	:	No specification
Differential pressure	: 5	m	Test tolerance	:	ISO 9906 Grade 2B
Pump seal	: Mechanical seal		Speed Set	:	490 rpm

Liquid			Speed Set		
Liquid type	: Water		Driver Sizing	:	Max Power(MCSF to EOC)with SF
Temperature / Spec. Gravity	: <50 /1.0	°C / kg/cm ³	Seal configuration	:	Mechanical seal
Solid Size - Actual / Limit	: 55	mm	Running speed range	:	490 rpm
Viscosity / Vapor pressure kPag	: N/A	kPag	Seal configuration	:	Mechanical seal

Hydraulic system pump Performance			Axial flow pump Performance		
Hydraulic pump type	: Piston type	A2FM500	Impeller type	:	Propeller axcial flow
Rate pressure	: 35	Mpa	Rated Impeller diameter	:	900 mm
Displacement	: 500	ml/rev	Pump max operation speed	:	600 rpm
Max speed	: 2000	rpm	Pump max operation temperature	:	60 °C
Max capacity	: 1000	L/min	Suction specific speed	:	1000 Unit

Engine Control Panel and Fuel System			Minimum continuous flow		
Maual start /stop system	: Low oil pressure shut down		Maximum head @ rated dia	:	5.5 m
Switch manual /AUTO	: High temperature shut down		Flow at BEP	:	13000 m ³ /h
Tachometer	: High water temperature shut down		Flow as % of BEP	:	98 %
Warning lights	: Premium quality 24v Battery		Efficiency at normal flow	:	83.0 %
Hour Counter	: Over speed shut down		Impeller dia ratio (rated/max)	:	N/A %
Running lights	: Variable speed control		Head rise to shut off	:	N/A %
Machanical injection fuel	: With fuel level indicate		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)	1000	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	:	N	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 spear parts		
Engine manufacture	: CUMMINS ENGINE		Mechanical seal	:	1 2 years
Duty rated power	: 340	kw	Propeller and casing wearing	:	1 3 years
Max 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
Cylinda bore	: 114	mm	Shaft	:	1 5 years
Stroke	: 145	mm	Bearing supportor	:	1 5 years
Speed control	: Mechanical type		Bearing	:	1 2 years
Incharge type	: Turbo		Pump casing	:	1 10 years

NOTES: 1. Date sheet based on calculation .
 2. Where an item doesn't apply show N/A.