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Pluga  **Franklin Electric**

Pluga Pumps and Motors Private Limited

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EUROPA

OIL FILLED PUMPS

REVOLUTIONARY PUMP FOR BETTER PERFORMANCE



Pluga  **Franklin Electric**

100 mm (4") Oil Filled Submersible Pumpsets

Salient Features

Energy efficient Motor and Pump, reduces energy bill.

Motor is pre-filled with potable and non-toxic oil, ensures superior performance

Motor is fitted with ball bearing hence capable to start at low voltage.

Pumpset performs in wide voltage range: 160-240V.

Pump parts are made from virgin Noryl (GFN-3), improves efficiency and longer life.

Because of less weight, pumpset can be installed with HDPE/UPVC pipes.

Class of Insulation: F, provides higher safety and Protection: IP-68

Maximum No. of starts per hour: 30, hence suitable for Variable Frequency Drive.

Pumpset can be installed horizontally as well.

Digital Control Panel ensures trouble free operation and protection with adoptability as water level controller.

Application

Domestic and Industrial Water Supply

Offices, Commercial and Residential Complexes

Hotels, Hospitals, Educational buildings

Pressure Booster

Fountains, Lawn and Gardens, Sprinkler and Drip System

Material of construction

Motor Parts

Stator Tube	Stainless Steel
Electrical Stampings	High Grade Silicon Steel
Motor Shaft	SS AISI-410
Rubber Parts	Nitrile Rubber
Cable	4 Core PVC flat cable

Pump Parts

Impeller	30% Glass filled Noryl
Diffuser	30% Glass filled Noryl
Pump Shaft	SS AISI-410
Suction,N.R.V.	Stainless Steel
Hardware	Stainless Steel



PERFORMANCE AT 230 V, 2850 RPM,

50 HZ SINGLE PHASE A.C. SUPPLY

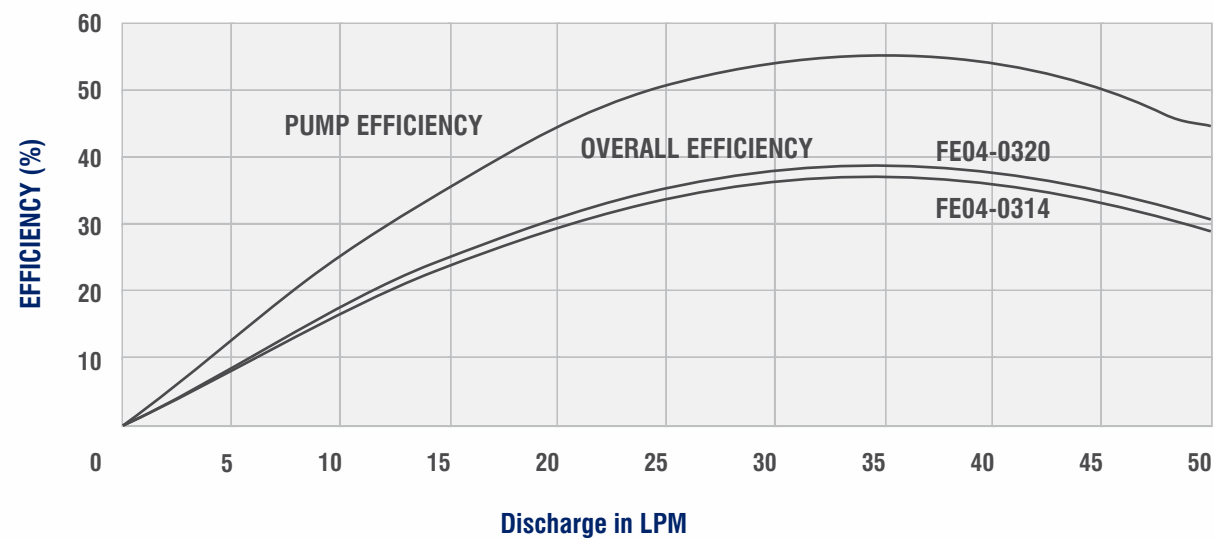
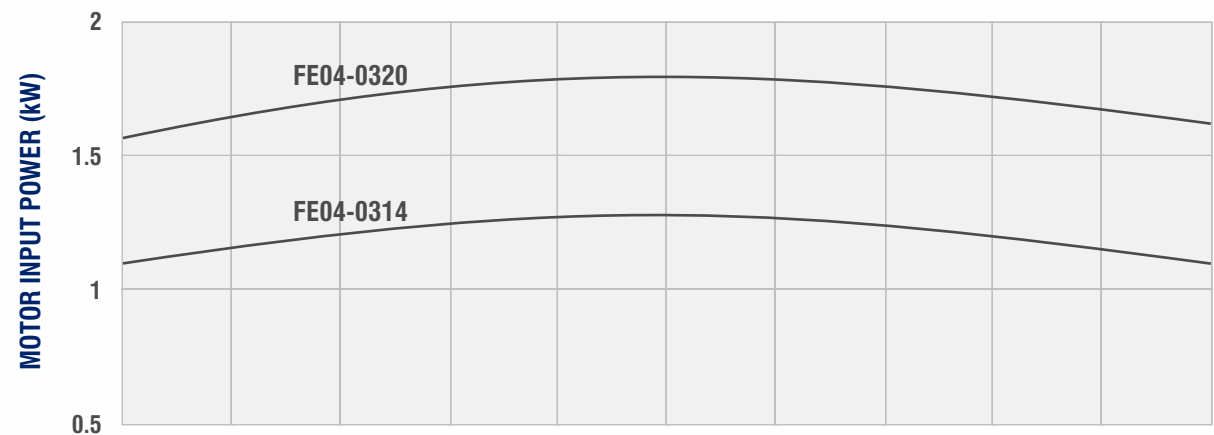
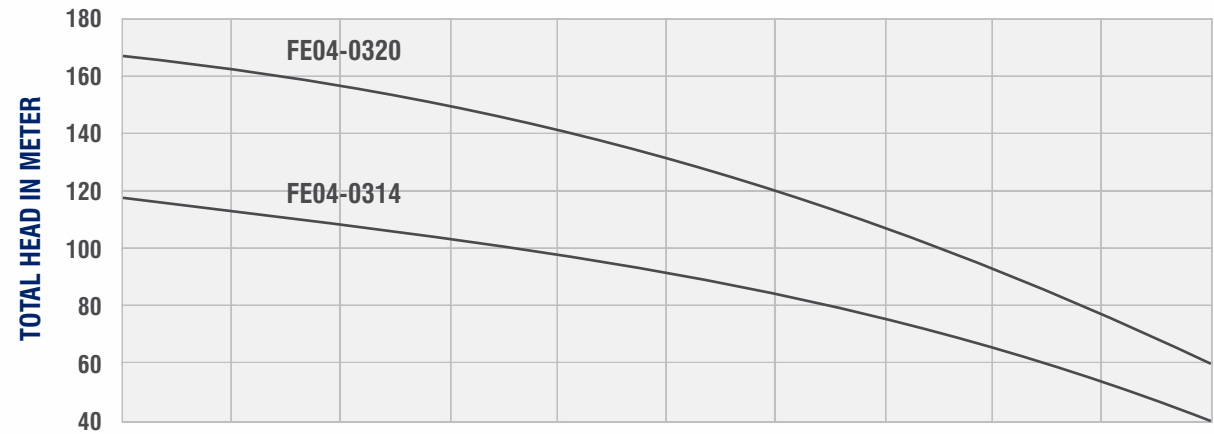
SERIES	NRV SIZE (mm)	PUMP MODEL	No. of STAGES	MOTOR RATING		DISCHARGE																			
				M ³ /hr	0	0.60	1.20	1.50	1.80	2.10	2.40	3.00	3.60	4.20	4.80	6.00	7.20	8.40	9.60	10.80					
																					LPH	0	600	1200	1500
				H.P.	Kw	LPM	0	10	20	25	30	35	40	50	60	70	80	100	120	140	160	180			
						TOTAL HEADIN METERS																			
30 LPM	32	FE04-0314	14	1.0	0.75		118	111	99	92	84	76	67	42											
		FE04-0320	20	1.5	1.10		168	158	142	132	120	108	95	60											
60 LPM	40	FE04-0608	8	1.0	0.75		66				59		56	51	45	38	30	21							
		FE04-0612	12	1.5	1.10		100				89		84	77	67	56	45	32							
120 LPM	50	FE04-1205	5	1.0	0.75		33								30		29	26	23	19	14	8			
		FE04-1207	7	1.5	1.10		46								42		40	37	33	27	20	11			

(*) Many more models are being added in product line.

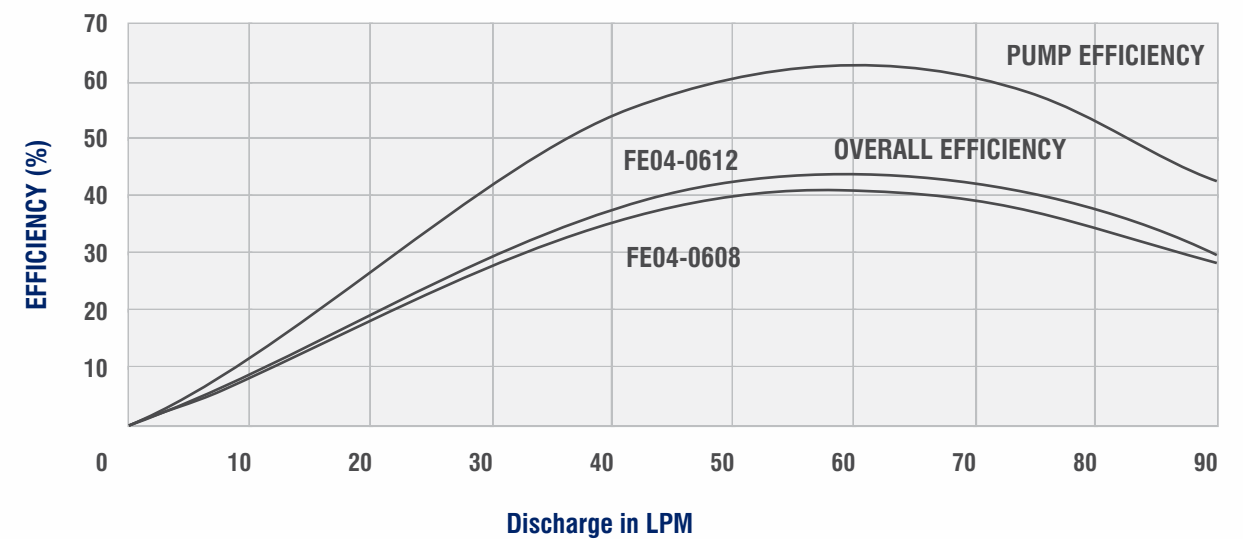
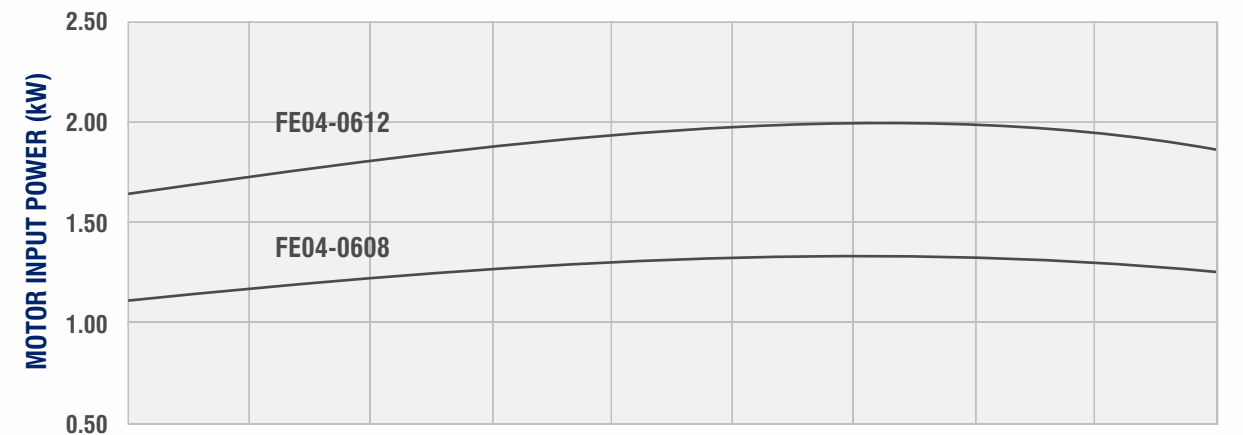
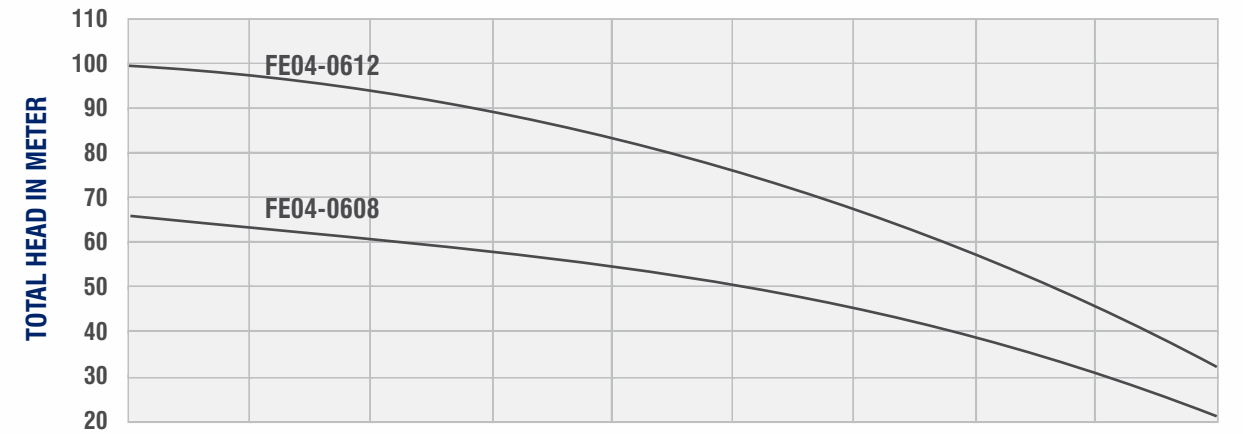
NOTE:

- The above performance is applicable to the liquid of Specific Gravity 1.0 and viscosity of water at normal temperature (40°C).
- Pumps are for clear cold fresh water. Maximum permissible sand content: 25 gm/m³.
- Pump set is suitable for maximum submergence of water 250 meter.

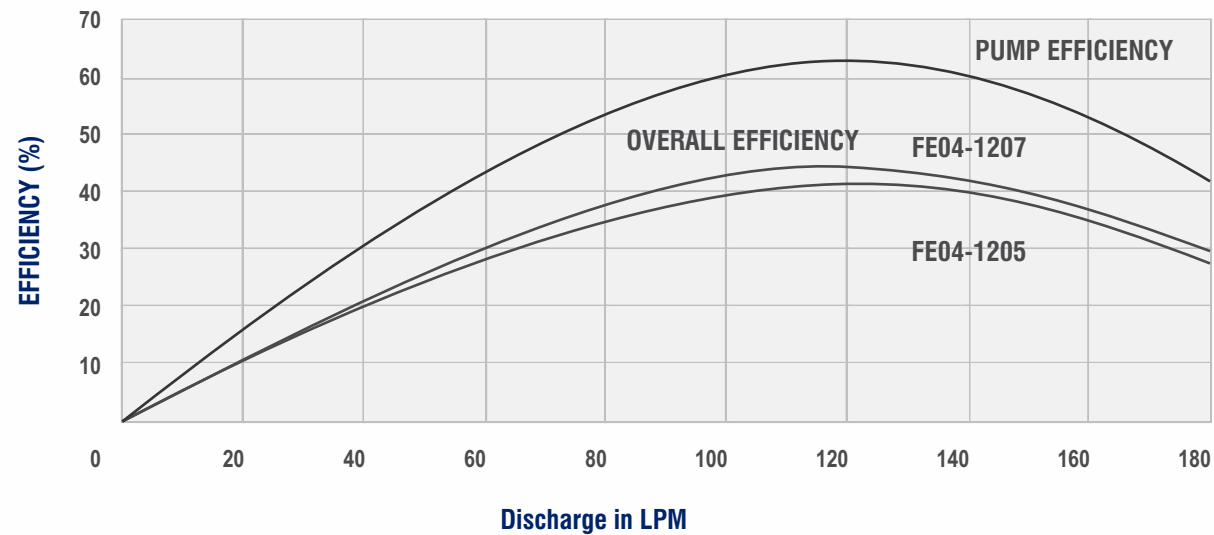
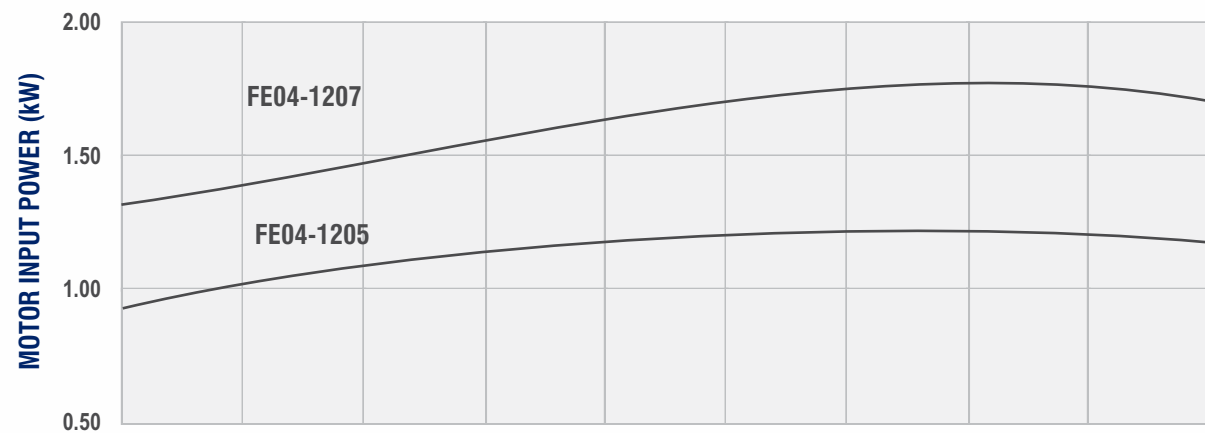
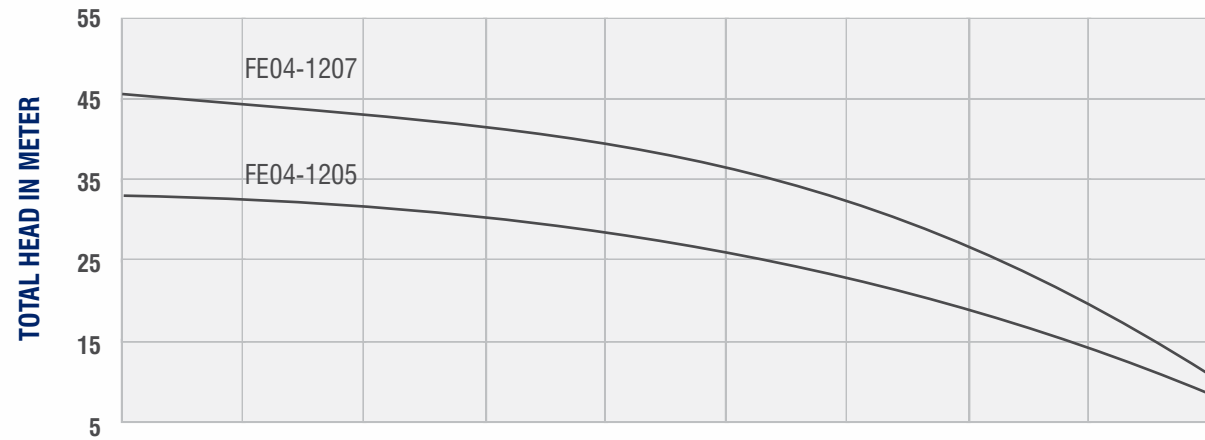
Performance Curves - FE04-0320



Performance Curves - FE04-0612



Performance Curves - FE04-1207



General Arrangement Drawing

100mm (4") Oil Filled Pumpsets

MODEL	HP RATING	NRV SIZES (MM)	TOTAL LENGTH (MM)			NET WEIGHT (KG)	GROSS WEIGHT (KG)
			PUMP "L-1"	MOTOR "L-2"	PUMPSET "L"		
FE04-0314	1.00	32	620	460	1080	26	28
FE04-0320	1.50	32	820	500	1320	29	32
FE04-0608	1.00	40	520	460	980	24	26
FE04-0612	1.50	40	640	500	1140	26	28
FE04-1205	1.00	50	460	460	920	24	27
FE04-1207	1.50	50	530	500	1030	26	29

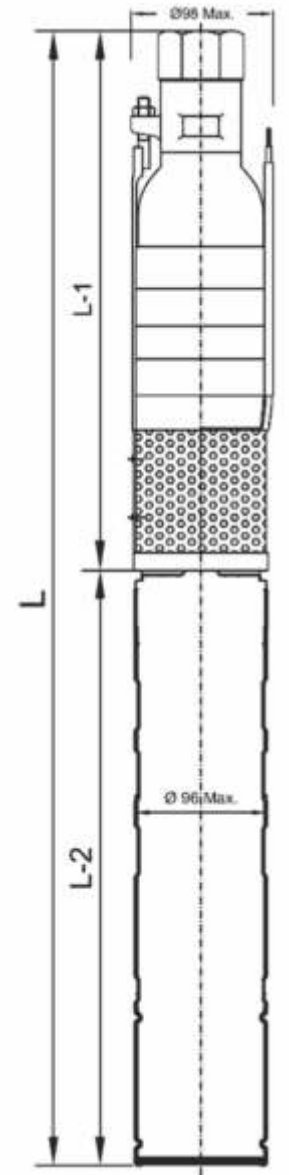
Cable Selection Chart

230 Voltage Single Phase, 50 Hz A.C. Supply

Sr. No.	MOTOR RATING		FULL LOAD CURRENT (AMPS)	CABLE SIZE IN SQ. MM		
	HP	kW		1.5	2.5	4.0
				MAX. LENGTH OF CABLE (METER)		
1	0.5	0.37	4.5	160	267	430
2	0.75	0.55	5.4	133	222	359
3	1.0	0.75	6.5	120	200	323
4	1.5	1.1	8.5	75	126	204

NOTE : Refer above selection table for rated voltage condition.

- For the low voltage site conditions, it is advised to go for the next higher size of cable to keep the voltage loss in cable minimum.
- Performance may be updated due to continuous improvement without any prior notice.



Control Panel

Specifications

SR. NO.	MODEL	HP RATING	RATED CURRENT (AMPS)	START CAPACITOR (MFD)	RUN CAPACITOR (MFD)
1	40F10	1.0	6.5	100-120	30
2	40F15	1.5	8.5	100-120	50

