PCF02xls Revision No: 0\6 Date: September 3, 2021



RECIPROCATING PUMP TEST RIG





FEATURES

- Compact, comprehensive, sturdy design
- Study of reciprocating pump



DESCRIPTION

An invaluable aid in the effective understanding of the performance characteristics of a variety of reciprocating pumps. An electric motor is used as a drive unit. Optionally, it has a facility to vary the speed of the motor to get various performance parameters for better understanding. The unit has a facility to measure the power consumed.

INSTRUCTION MANUAL

Self -explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

LIST OF EXPERIMENT

- 1. To study the construction and operation of a pump.
- 2. Determination of total head
- 3. Determination of power input and efficiency of a pump.
- 4. To study the performance characteristics of pump.

COMPONENTS

- 1. Reciprocating Pump
- 2. Pressure gauges
- 3. Flow measurement unit
- 4. Electric Motor
- 5. Sump tank
- 6. Input Power measuring arrangement

Note: Details of attachments can be made available on request.

SERVICES REQUIRED

- 1. Water supply and drainage arrangement
- 2. Electric supply



MODEL SELECTION CHART

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			- 50	-17	2 50.	-520	19	25	- 323	- 15	10	G4 - 61.			.o	-5		
Tank																		
Plastic/FRP	A																Speed variatio	n
MS	В																Fixed speed	Х
SS	C																Electronics	В
																	Step cone pulley	С
Flow measurem	ent																	
Meas tank, stop watch	1																	
Rotameter	2																Power Measurem	ent
Digital Flow-meter	3																Energymeter	1
																	Wattmeter	2
																	Load cell	3
													385				Load scale	4
Pump type	70	J																
Pump type Single stage	A																Others (Pls specify)	5
	A B					2											Others (PIs specify)	5
Single stage						2											Others (Pls specify)	5
Single stage Multi stage	В					Z											Others (Pls specify)	5
Single stage Multi stage	ВС					č											Others (Pls specify)	5
Single stage Multi stage Others (Pls specify)	ВС					E											Others (Pls specify) Motor	5
Single stage Multi stage Others (Pls specify) Capacity of Pur	B C					-												5 A
Single stage Multi stage Others (Pls specify) Capacity of Pur	B C					2											Motor	
Single stage Multi stage Others (Pls specify) Capacity of Pur	B C					8					23						Motor AC, Fixed type	A

- (1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
- (2) Photographs are indicative only.

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