

Product Name :
Re-Circulation Type Air Conditioning Test Rig

Product Code :
NLAB-ENGINEERINGLB34006



Description :

Re-Circulation Type Air Conditioning Test Rig

Technical Specification :

PRODUCT DESCRIPTION:

Test rig enables to study the psychrometric process with recirculation of air. The trainer works on simple vapor compression refrigeration Cycle using R 22 as a refrigerant.

The system is fabricated such that student can study all the air conditioning Processes. It is also useful to understand working of all the components of system, their performance and control etc. All the components are mounted on the display board, so that students can observe their working easily.

TECHNICAL SPECIFICATIONS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CAPACITOR																																																																																																			
COMPRESSOR SEaled. MAKE: EMERSON CLIMATE TECH.OR ANY EQUIVALENT MAKE.																																																																																																			
CONDENSER CONVECTION AIR COOLED.																																																																																																			
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DRIER																																																																																																			
EXPANSION DEVICE																																																																																																			
EVAPORATOR CONVECTION AIR COOLED.																																																																																																			
EVAPORATOR FAN																																																																																																			

	DEHUMIDIFIER, RIGID TYPE. REHEATER	
	FIBRODIER	
	REFRIGERANT	
	RECOPRODUF / OR INDFOSS OR ANY EQUIVALENT MAKE.	
	TEMPERATURE FACILITIES WITH DIGITAL DISPLAY.	
	PRESSURE TYPE PRESSURE GAUGES.	
	SEASURFLOMETER PROVIDED.	

DBT & WBRT MEASUREMENT BY SLING PSYCHROMETER.	
AIR FLOW MEASUREMENT METER	
SUPPLY VOLTS, 50 HZ, 1 PHASE.	
PROVIDE FOR COMPRESSOR AND HEATER.	
PROVIDE FOR COMPRESSOR	
HEATING COILS CRCA	
POWER CORDING	
PROVED.	

POWER RATING	
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LIST OF EXPERIMENTS:

- Cooling of fresh air with full exhaust. (Summer experiment)
- Heating of fresh air with full exhaust. (Winter experiment)
- Humidification of air.
- Cooling or heating the air with partial recirculation.
(Calculations for mixing of two air streams having different characteristics.)
- Cooling of air with full re-circulation (operation of the system as a window air conditioner.)

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