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Product Name :

Air Conditioning System Trainer

Product Code :

SLE/MCE/82



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Description :

Air Conditioning System Trainer (Product Code: SLE/MCE/82) is a refrigeration and air-handling training unit used to study cooling, heating, humidification and room loads in HVAC and thermal engineering laboratories. Polytechnics and engineering colleges choose this TVET lab equipment because an air duct with fan, air cooler, humidifier, flaps, air heater and sensorsserves a chamber with adjustable wet and dry cooling loads. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Air duct	With fan, air cooler, humidifier, flaps, air heater andsensors
Chamber	Wet (latent) and dry (sensible) heat source as cooling load
Cooling-load heaters	2 heaters in the chamber; power output 0–250 W each, freely adjustable
Humidifier heating power	400 W
Air heater power	360 W
Refrigeration capacity	320 W at +5/40 °C
Power consumption	140 W at ?10 °C
W × H	155 × 155 mm
Refrigerant	A refrigerant currently available on the market; filling volume 1.2 kg; CO2-equivalent 0.8 t
Measuring range – temperature	0–50 °C
Measuring range – relative humidity	10–90%
Measuring range – power consumption	0–600 W (condensing unit)
Measuring range – refrigerant flow rate	1.5–23.5 L/h
Measuring range – air velocity	0–2.5 m/s
Measuring range – cooling-load power	2 × 0–300 W
Measuring range – refrigerant pressure	?1 to 9 bar / ?1 to 24 bar
Power supply options	230 V, 50 Hz, 1 phase or 230 V, 60 Hz, 1 phase
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