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facility is a preparation and demonstration site for a full-scale replacement of existing commercial refrigeration installations in India (Phase II).

NOMENCLATURE

HCFC	Hydrochlorofluorocarbons	T_{amb}	Ambient Temperature
HFCs	Hydrofluorocarbons	T_a	Temperature Approach
CFCs	Chlorofluorocarbons	T_{ut}	Utilization Temperature
CO_2	Carbon dioxide	T_e	Evaporation Temperature
ODP	Ozone Depletion Potential	p_{REC}	Receiver pressure
GWP	Global Warming Potential	p_{GC}	Gas Cooler Pressure
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers	p_e	Evaporation Pressure
INDEE	Energy-efficient and environmentally friendly refrigeration and air conditioning for supermarkets in India	P_j	Power Consumption
Temp	Temperature	$P_{j,c}$	Carnot Power Consumption
MT	Medium Temperature Compressor	$\dot{Q}_j$	Cooling Capacity
LT	Low Temperature Compressor	B_i	Exergy Exchange
A/C	Air Conditioning	ρ_j	Density
		V_j	Volume
COP	Coefficient of Performance	Δh_j	Enthalpy Difference
PIR	Power Input Ratio	τ	Time
MPR	Middle Pressure Receiver		

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