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NOMENCLATURE

C	Centigrade
CFC	Chlorofluorocarbon
COP	dimensionless coefficient of performance
EISC	dimensionless effectiveness of the internal sub-cooler
H	enthalpy (kJ/kg)
HFC	Hydrofluorocarbon
ISC	Internal sub-cooler
P	Pressure (kPa)
PCPTR	Power consumption per ton of refrigeration (kW/TR)

PISC	Porous Internal Sub-cooler
\dot{Q}_{refnsc}	Refrigeration capacity without internal sub-cooler
R	Refrigerant
RCI	Refrigeration capacity index (%)
Ref. Capacity	Refrigeration capacity (kW)
Tc	Condensing temperature in (°C)
Te	Evaporation Temperature in (°C)
W	Watt

Greek symbols

$\Delta T_{(sub)}^{\circ}C$	degree of sub-cooling in degree centigrade
ΔP_{ISC}	pressure drop in the internal sub-cooler (kPa)

Subscripts

C	Condensation
E	Evaporation
sub	Subcooling

Superscripts

o	degree
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