

* CHILLER Efficiency (KW/TR)

COP

INPUTS

PARAMETERS	UNIT	PORT NO	VALUE
7 CHILLED Water FLOW	m ³ /hr		
8 Chiller Power	KW		
Ambient Dry Bulb Temperature (DBT)	Deg C		
Ambient Wet Bulb Temperature (WBT)	Deg C		
Relative Humidity (RH)	%		

can label be added

CHILLED WATER PARAMETERS

1 Chilled Water Temp Inlet (T _{c in})	Deg C		
2 Chilled Water Temp Outlet (T _{c out})	Deg C		
3 Refrigerant Temperature in Chiller	Deg C		

can label be added

COOLING Water Parameters

4 Cooling water Temp Inlet (T _{cw in})	Deg C		
5 Cooling water Temp Outlet (T _{cw out})	Deg C		
6 Refrigerant Temperature in Condensor	Deg C		

Outputs .

if not can be continued.

Can this space be used

(A) Chiller Approach Degr (C) Condensor Approach Degr
(B) Chiller Range DegrC (D) Condensor Range DegrC

Chiller operating TR TR (E)
Chiller Power & KW (F) → same as (B)

$$\textcircled{A} \text{ Chiller Approach} = \textcircled{2} - \textcircled{3}$$

$$\textcircled{B} \text{ chiller Range} = \textcircled{1} - \textcircled{2}$$

$$\textcircled{C} \text{ Condensor Approach} = \textcircled{6} - \textcircled{5}$$

$$\textcircled{D} \text{ Condensor Range} = \textcircled{5} - \textcircled{4}$$

$$\textcircled{E} \text{ Chiller operating TR}$$

$$= \frac{\textcircled{7} * 4.18 * 1000 * (\textcircled{1} - \textcircled{2})}{3.51 * 3600}$$

$$\textcircled{F} \text{ Chiller Power} = \textcircled{8}$$

$$\textcircled{*} \text{ KW/TR} = \frac{\textcircled{F}}{\textcircled{E}}$$

$$\textcircled{\#} \text{ COP} = \frac{3.517}{\textcircled{*}}$$