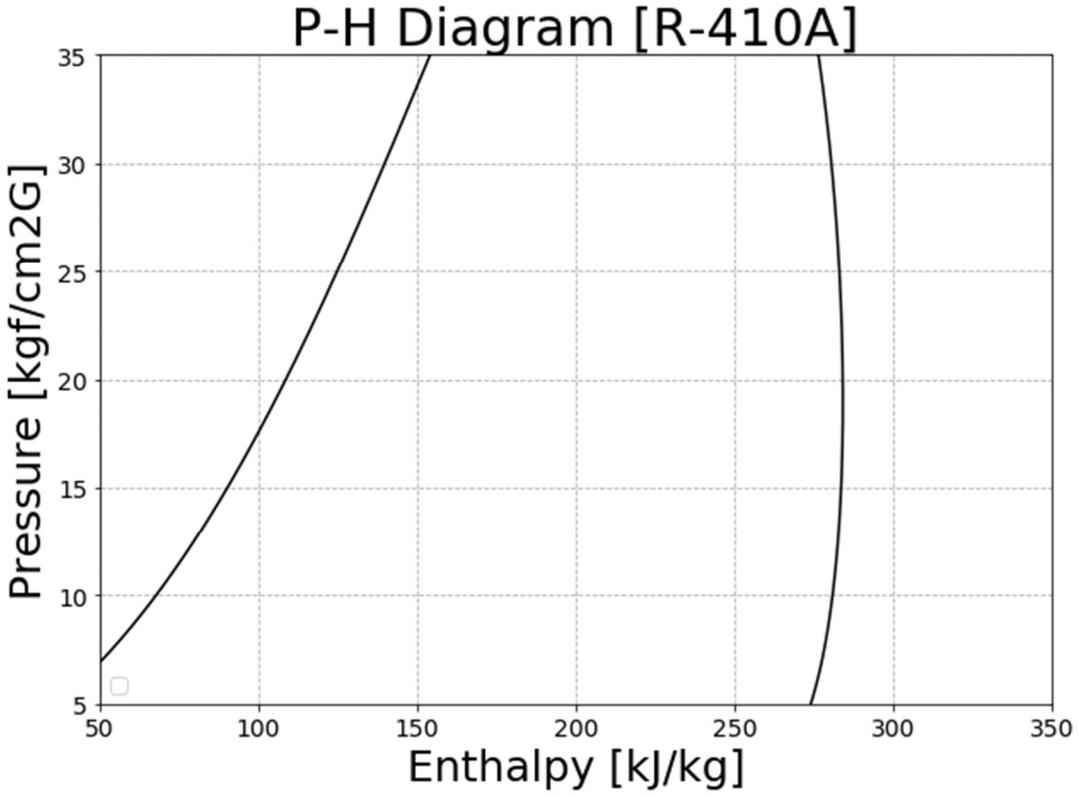
1. Refrigeration Cycle Simulation Result with respect to Indoor Air Flow Rate

Input Variable			
Indoor Air Flow Rate [m^3/min]	-	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

Cal. Result	Indoor Air Flow Rate [m^3/min]	
	10	16
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]		

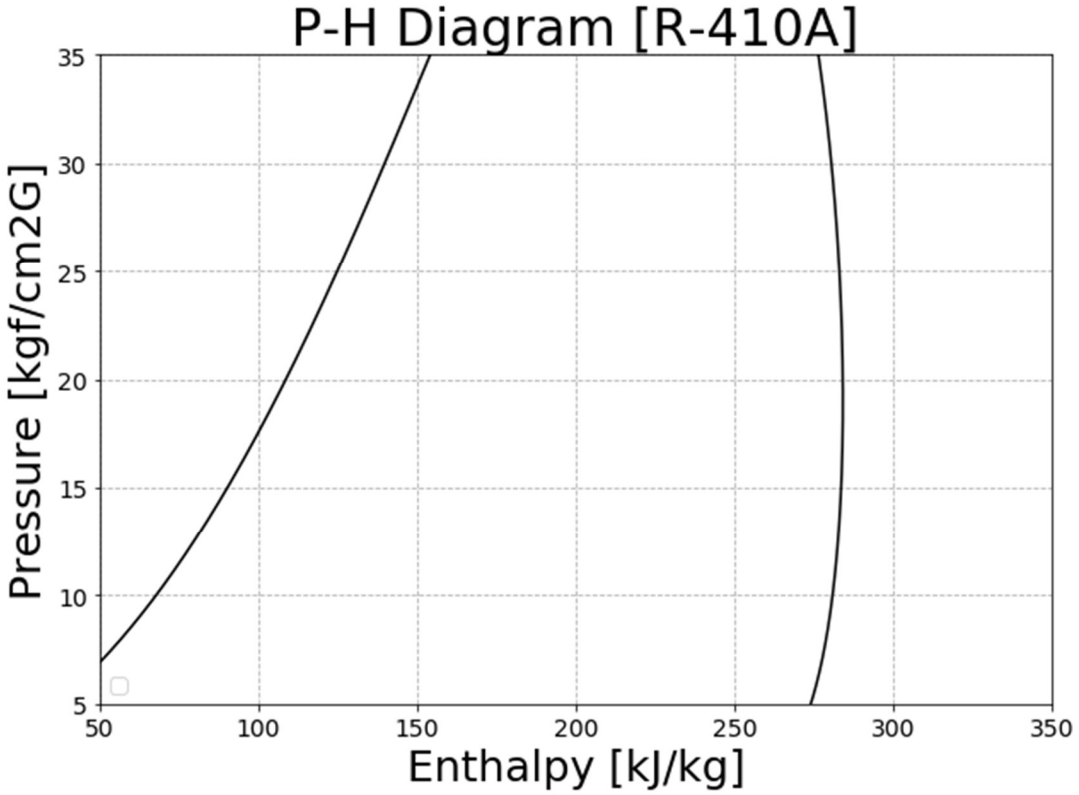


2. Refrigeration Cycle Simulation Result

with respect to Outdoor Air Flow Rate

Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	-	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

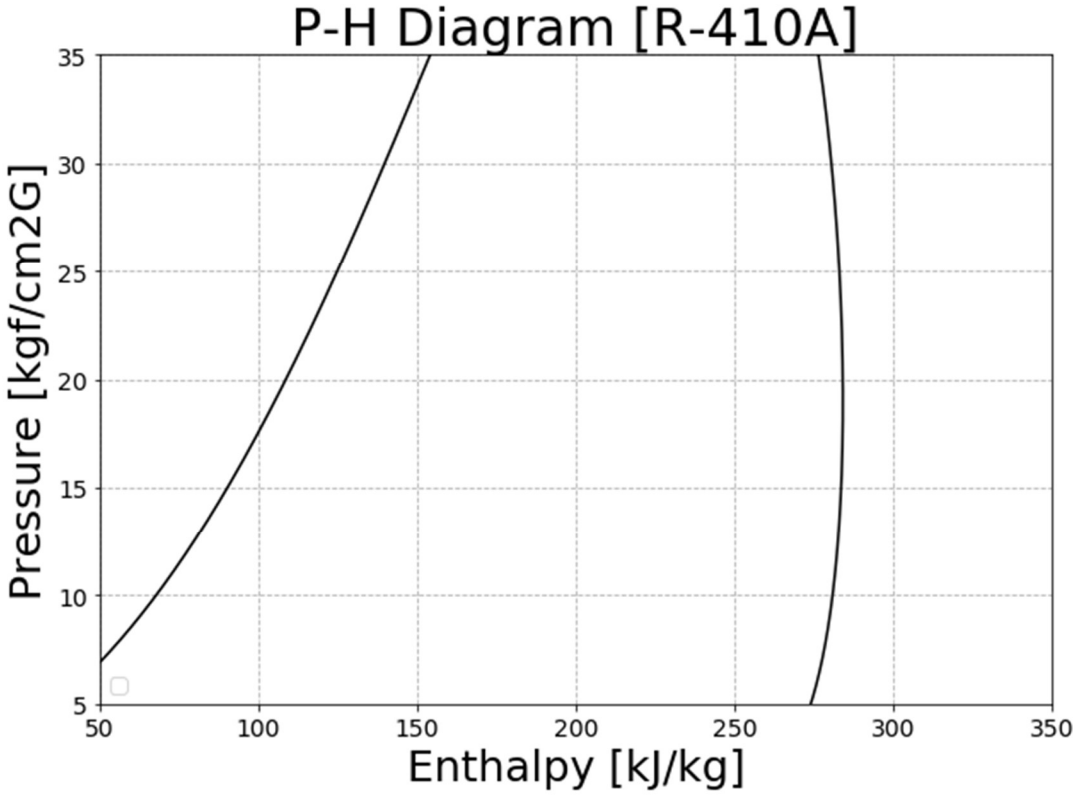
Cal. Result	Outdoor Air Flow Rate [m^3/min]	
	15	22
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]		



3. Refrigeration Cycle Simulation Result with respect to Indoor Dry-bulb Temp.

Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	-	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

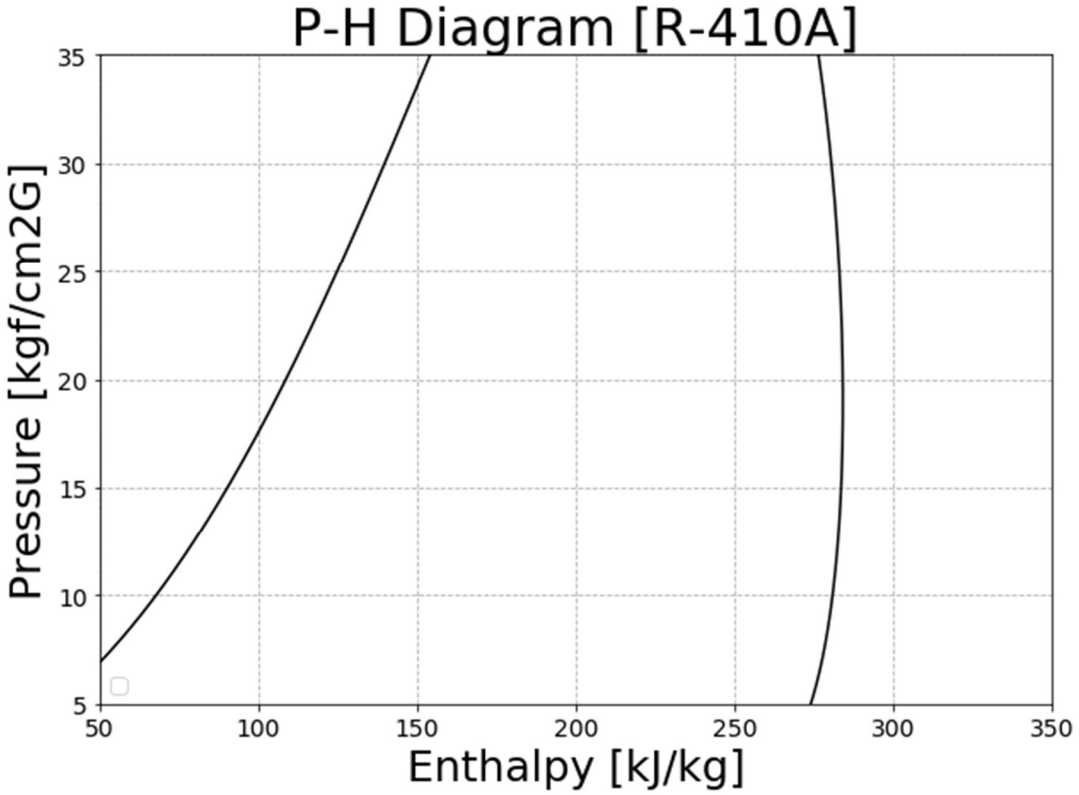
Cal. Result	Indoor Dry-bulb Temp. [℃]	
	22	28
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]		



4. Refrigeration Cycle Simulation Result with respect to Indoor Wet-bulb Temp.

Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	-	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

Cal. Result	Indoor Wet-bulb Temp. [℃]	
	21	26
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]		

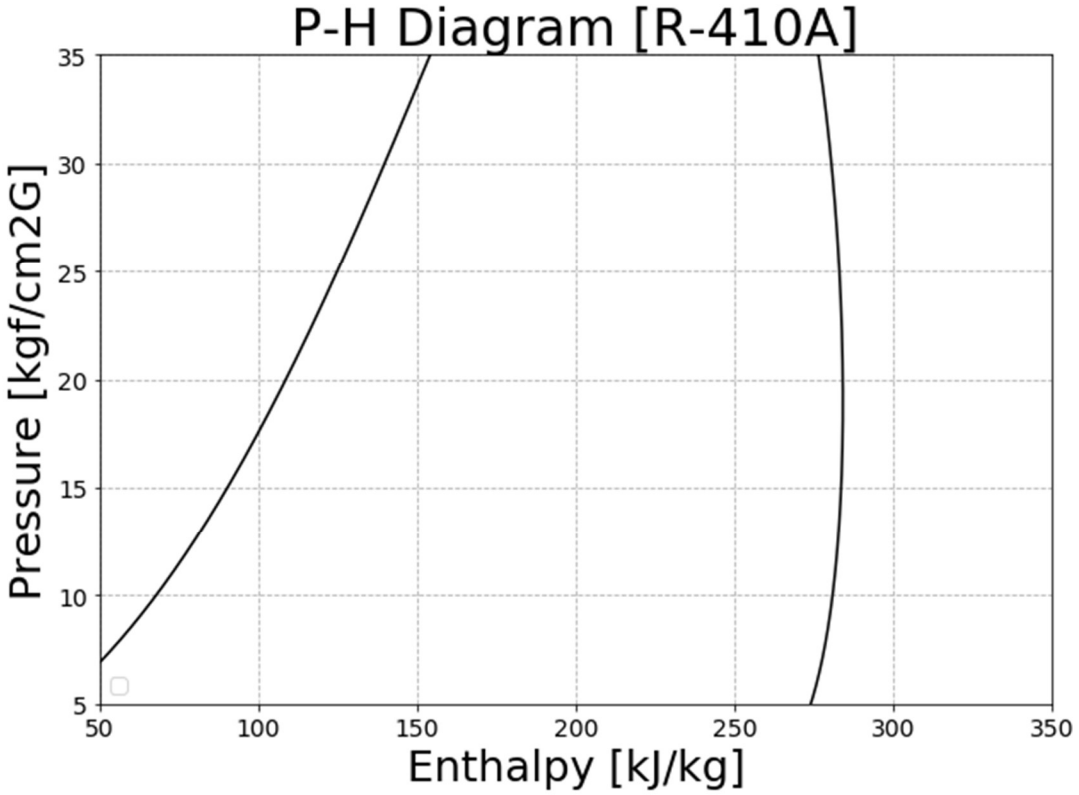


5. Refrigeration Cycle Simulation Result

with respect to Outdoor Dry-bulb Temp.

Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	-	Cond. Rows	2

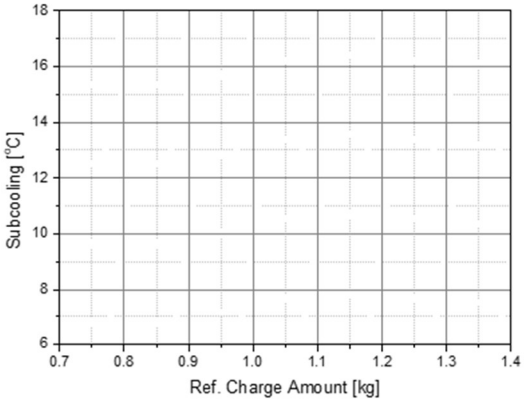
Cal. Result	Outdoor Dry-bulb Temp. [℃]	
	33	40
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]		

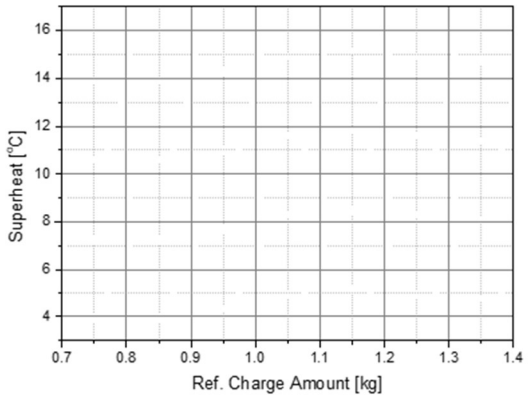


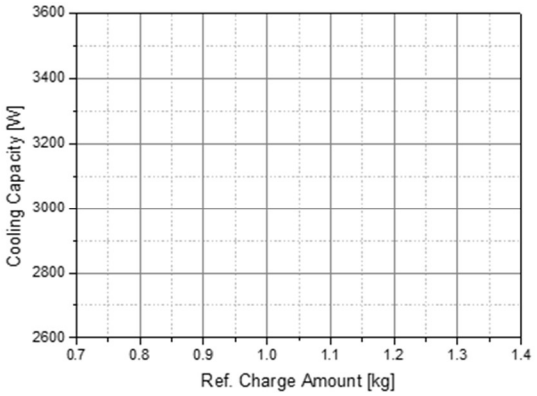
6. Refrigeration Cycle Simulation Result with respect to Ref. Charge Amount

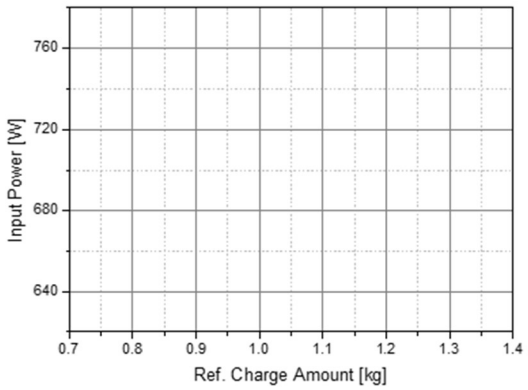
Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	-
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

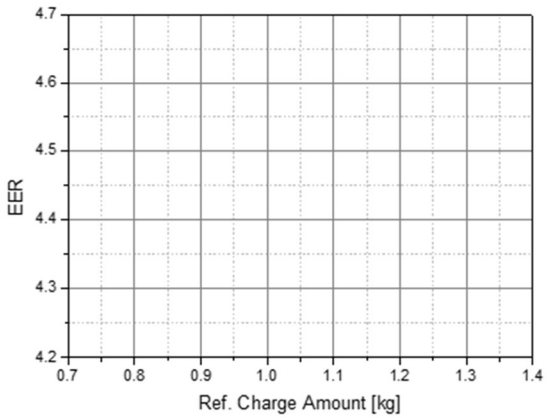
Cal. Result	Ref. Charge Amount [kg]				
	0.75	0.90	1.05	1.20	1.35
Subcooling [℃]					
Superheat [℃]					
Cooling Capacity [W]					
Input Power [W]					
EER [-]					







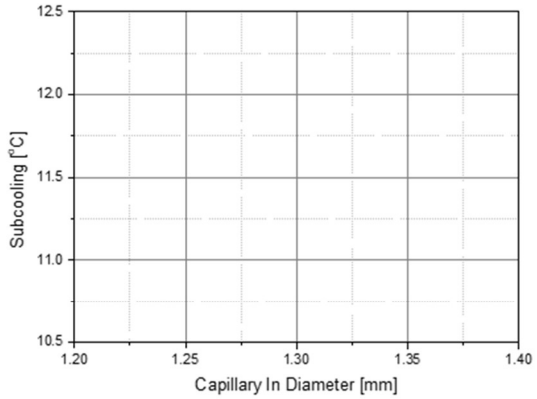


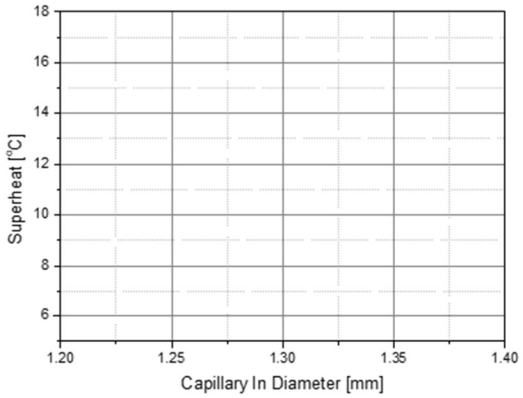


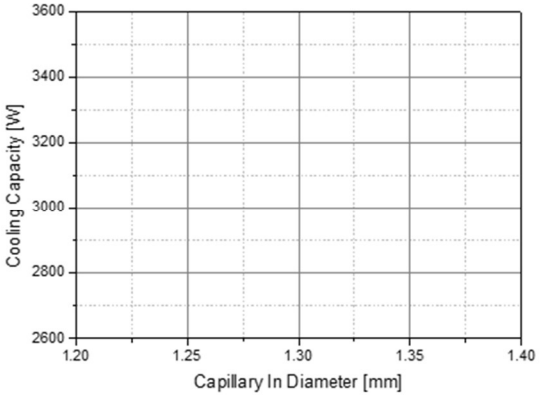
7. Refrigeration Cycle Simulation Result with respect to Capillary In Diameter

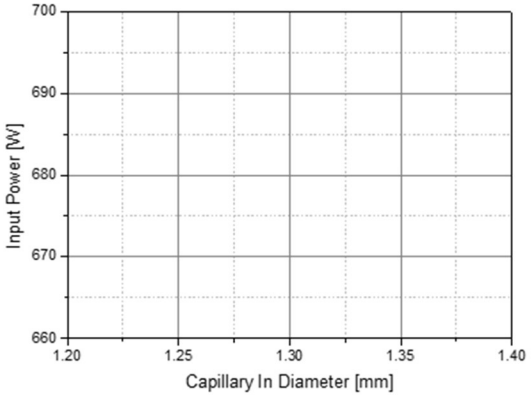
Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	-
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

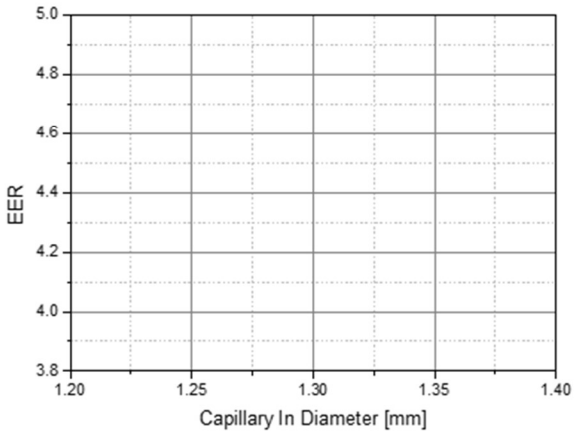
Cal. Result	Capillary In Diameter [mm]				
	1.24	1.26	1.30	1.33	1.36
Subcooling [℃]					
Superheat [℃]					
Cooling Capacity [W]					
Input Power [W]					
EER [-]					









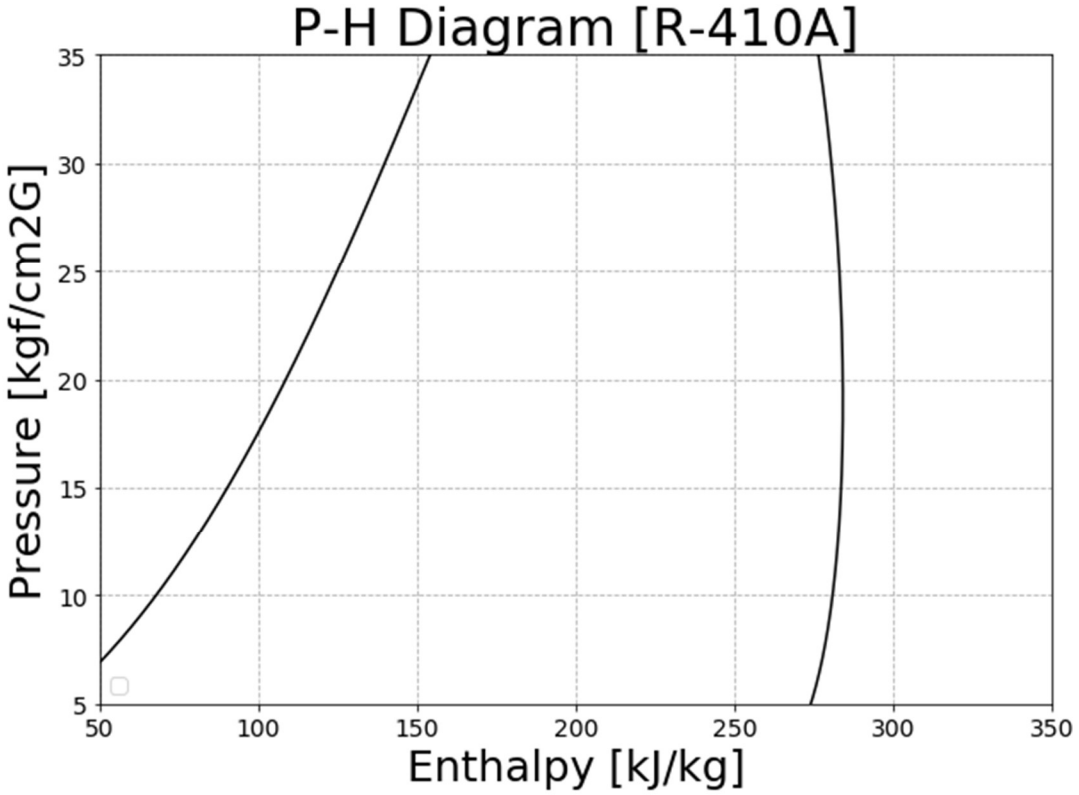


8. Refrigeration Cycle Simulation Result

with respect to Eva. Rows

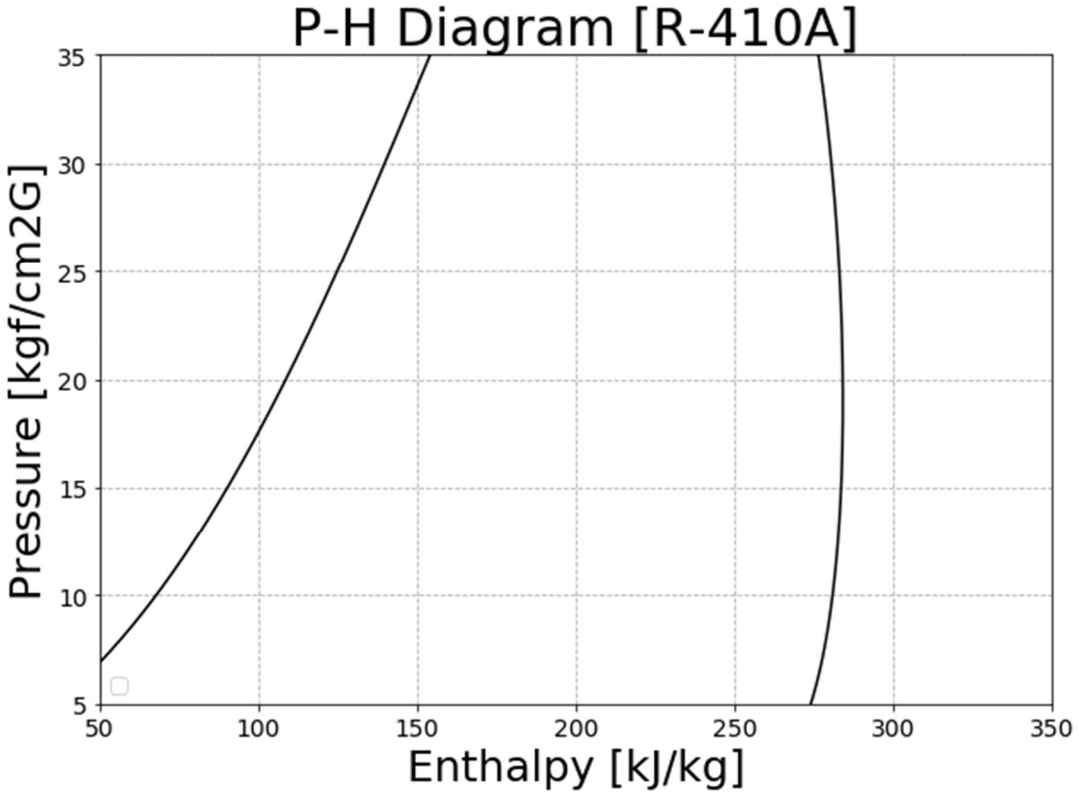
Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	-
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	2

Cal. Result	Eva. Rows	
	1	2
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]		



9. Refrigeration Cycle Simulation Result

with respect to Cond. Rows

Input Variable			
Indoor Air Flow Rate [m^3/min]	16	Ref. Charge Amount [kg]	1.05
Outdoor Air Flow Rate [m^3/min]	22	Capillary Length [mm]	630
Indoor Dry-bulb Temp. [℃]	28	Capillary In Diameter [mm]	1.3
Indoor Wet-bulb Temp. [℃]	21	Eva. Rows	2
Outdoor Dry-bulb Temp. [℃]	33	Cond. Rows	-

Cal. Result	Cond. Rows	
	2	4
Suction Pressure [kgf/cm^2G]		
Discharge Pressure [kgf/cm^2G]		
Subcooling [℃]		
Superheat [℃]		
Eva. Pressure Drop [kgf/cm^2G]		
Cond. Pressure Drop [kgf/cm^2G]		
Eva. Sensible Heat [W]		
Eva. Latent Heat [W]		
Eva. Dehumidification [kg/h]		
Cooling Capacity [W]		
Input Power [W]		
EER [-]