

Figure 1

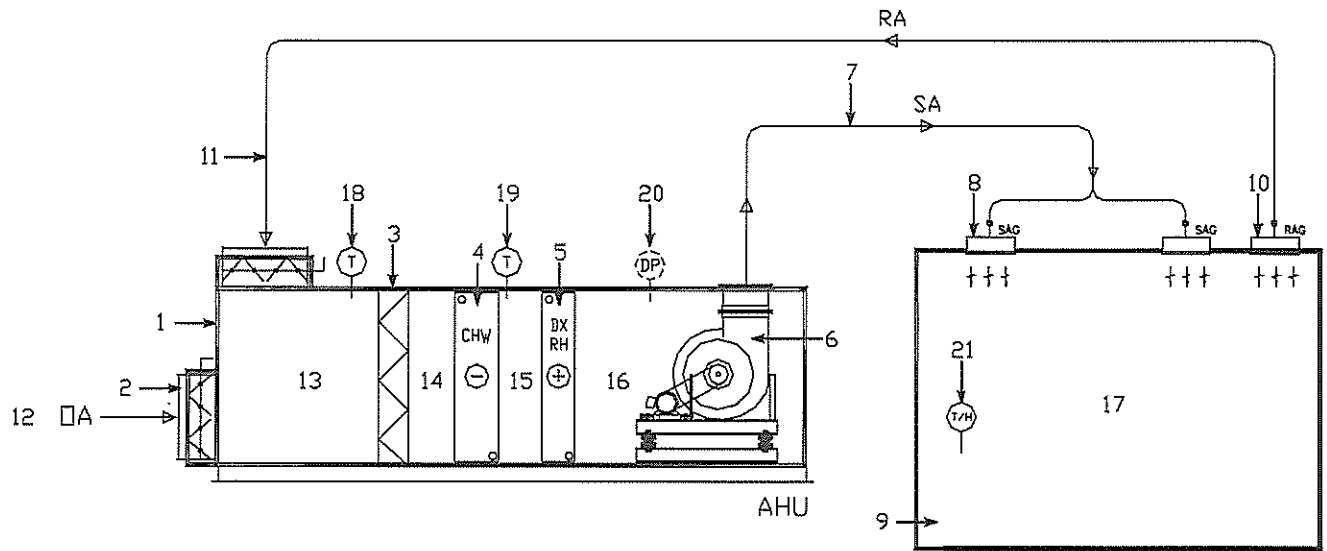


Figure 2

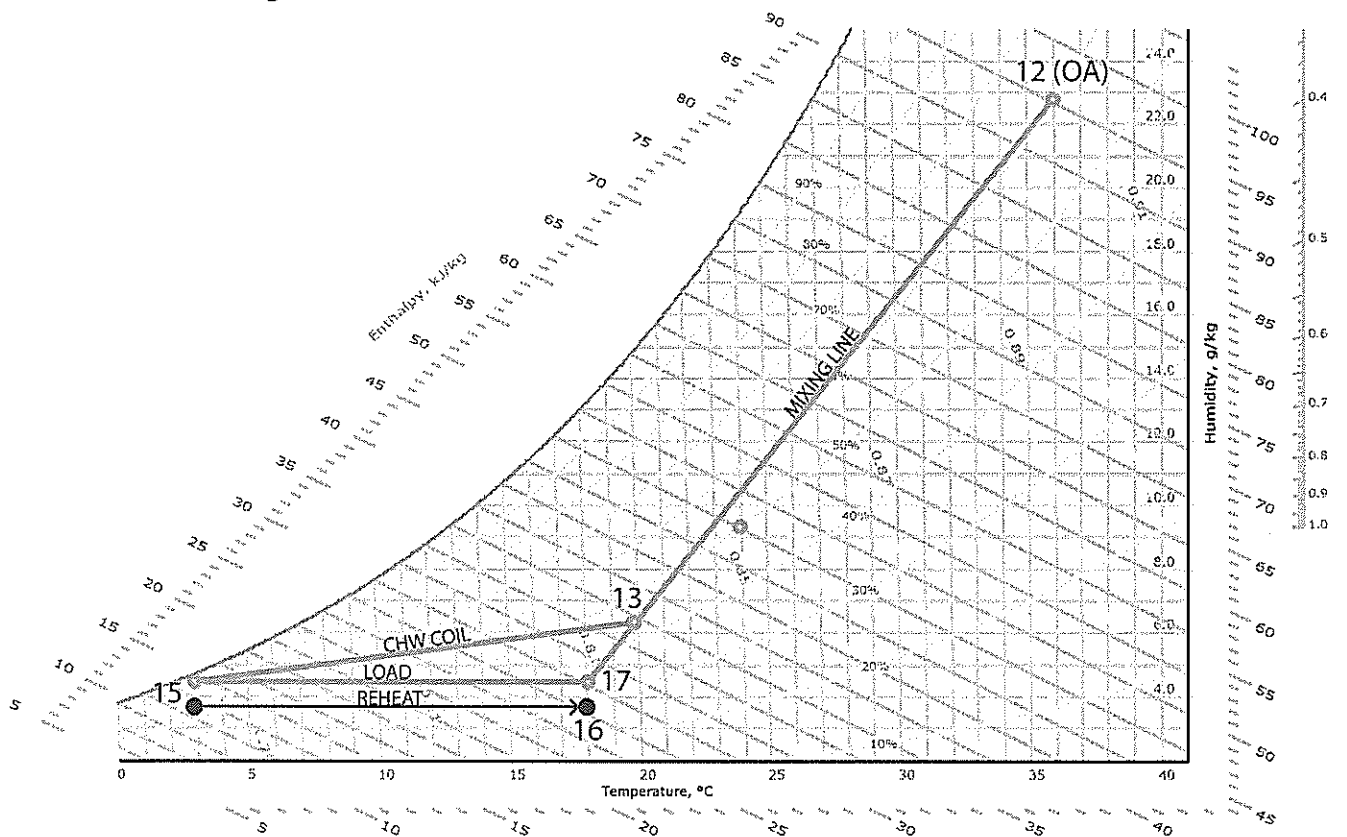


Figure 3

2/4

CHW COOLING COIL SELECTION/RATING Summary	
Modes	Cooling / Rating
AIR SIDE DATA	
Air On Dry Bulb Temperature	19.8°C
Air On Wet Bulb Temperature	12.8°C
Air On Relative Humidity	N/A %
Air Off Dry Bulb Temperature	2.7°C
Air Off Wet Bulb Temperature	2.5°C
Coil Duty	14.78 kW
Air Density	1.21 kg/m3 Standard Air
Face Velocity	2.08 m/s
Air Pressure Drop	95.5 Pa
Air Volume	2000 m3/h
Sensible Heat Ratio	0.785
FLUID SIDE DATA	
Fluid On Temperature	0.5°C
Fluid Off Temperature	3.5°C
Fluid Flow Rate	4.24 m3/h
Glycol	0 %EGS
Actual Fluid Pressure Drop	25.3 kPa
PHYSICAL COIL DATA	
Fin Material and Type	Aluminium 0.15 rippled
Coil Type	Water
Tube Diameter	12 mm
Tubes High	13□
Finned Height	533 mm
Finned Height	500 mm
Fin Density (FPI)	10 Fixed
Circuit Type	Half Fixed
Number Sections	1
Number Rows	6

Figure 4

CONDENSER SELECTION/RATING Summary	
Modes	Heating / Rating
AIR SIDE DATA	
Air On Dry Bulb Temperature	2.7°C
Air On Wet Bulb Temperature	N/A°C
Air On Relative Humidity	N/A %
Air Off Dry Bulb Temperature	19.4°C
Air Off Wet Bulb Temperature	N/A°C
Coil Duty	11.8 kW
Air Density	1.21 kg/m3 Standard Air
Face Velocity	2.08 m/s
Air Pressure Drop	21.1 Pa
Air Volume	2000 m3/h
Sensible Heat Ratio	N/A
FLUID SIDE DATA	
Refrig. Temp.	50°C
Fluid Flow Rate	0.061 kg/s
Refrig. Pressure Drop	0.131 psi
PHYSICAL COIL DATA	
Fin Material and Type	Aluminium 0.15 rippled
Coil Type	R22
Tube Diameter	12 mm
Tubes High	13
Finned Height	533 mm
Finned Height	500 mm
Fin Density (FPI)	10 Fixed
No of Circuit	1/4
Tube Type	Plain Tube
Number Sections	1
Number Rows	2

Figure 6

The diagram illustrates a process flow system for a cooling coil. At the top, a cooling coil is shown with two ports labeled "CHW IN" and "CHW OUT". Above the coil, a bracket indicates the flow is "TO COOLING COIL". The coil is labeled "400". A flow line enters the coil from the left, passes through a valve labeled "300", and then enters the coil. The flow line exits the coil on the right, passes through a valve labeled "130", and then enters a "DOL" (Differential Operating Limit) block. The "DOL" block is connected to a coil labeled "200". The flow line exits the "200" coil, passes through a valve labeled "50", and then enters a "DOL" block. The "DOL" block is connected to a coil labeled "51". The flow line exits the "51" coil, passes through a valve labeled "140", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "120", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "80", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "70", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "60", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "90", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "100", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "110", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "120", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "130", and then enters the "400" coil. The flow line exits the "400" coil, passes through a valve labeled "140", and then enters the "400" coil.

Figure 7

