HVAC – EVAPORATOR PUMP

PERFORMANCE IMPROVEMENT

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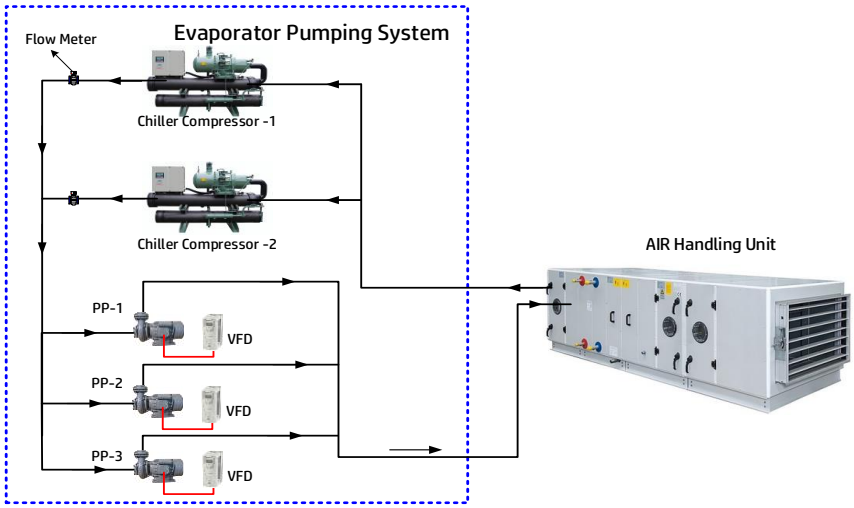
HVAC – EVAPORATOR PUMP – ENERGY SAVING

Interacting with people occupancy, their cooling requirement, external ambient climatic conditions leads to performance improvement & energy saving

- Individual Pump Run Hours
- Individual Pump Efficiencies
- Electrical Anomaly
- Per KWHr pumping of water quantity in Cubic Meter of volume.
- For Volume of One Cubic Meter -the energy consumption in KWHr.
- Indexing of pump wise efficiency
- Individual pump pressure suction head
- Delivery head of individual pump
- Individual pump - power, current consumption and the anomaly.
- Individual Pump Vibration-Temperature Level
- Individual pump energy consumption
- Individual pump flow rate and flow quantity
- The power consumption per ton of refrigeration.



OUTPUTS / DELIVERABLES

Real Time Monitoring and Control

Pump & Motor Condition Monitoring

Early fault prediction

Automatic Report and emailing

Thresholds based alerts

Trend, event, history – analysis

Pump Efficiency/Effectiveness

Energy Saving

Maintaining condenser process liquid temperature requirements

Benefit Value

- Reduce down time through effective monitoring and recommendation for early maintenance.
- To improve motor efficiency by reducing power consumption through real-time monitoring and control
- Automatic condition predicting will leads to reduced skill level, improving intelligence and reducing down time
- Predicting failure and forecasting - eliminates costly repair charges
- Database recording and retrieval leads to complete transparency
- The total harmonic current distortion is typically <3% in a nominal situation in an undistorted network. In partial loads, the harmonic content is also low.
- Unity power factor. Network power factor correction is also possible.
- Nominal voltage can be supplied to the motor, even when the drive's supply voltage is below the motor's nominal voltage level
- A voltage drop caused by an output filter, motor cable or input supply cables is compensated
- Voltage to the motor can be boosted, even when maintaining superior harmonic mitigation
- Motor torque in the field weakening area is increased (i.e. when the drive operates the motor in a speed range above the motor's nominal speed)
- A motor with a higher nominal voltage than the drive's actual supply voltage can be used
- No need for external filters, multi-pulse arrangements or special transformers
- The active supply unit in the drive can boost output voltage, which ensures reliable operation and guarantees full motor voltage, even when the supply voltage is below nominal

Reduce your carbon footprint and make a positive impact in your community.