

Contact Carrier Service

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GREEN
MAINTENANCE
WITH SERVICE
INSPECTION AND
HEALTH CHECK AUDIT



GREEN MAINTENANCE WITH SERVICE INSPECTION AND HEALTH CHECK AUDIT

Achieving chiller plant optimization and operation efficiency with a detailed inspection audit from Carrier professionals. Carrier provides a number of health check audit services aiming for different aspects in chiller equipment and chiller system operations. Offering a comprehensive report to address the condition of mechanical equipment, energy efficiency, performance evaluation, benchmark rating, economic analysis, along with professional recommendations and practical solutions.



Healthcheck assessment of chiller plants



Chiller Equipment Service Inspection

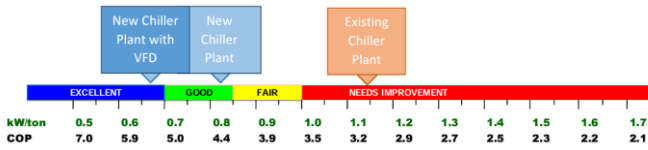




Identifying potential energy improvements



Benchmark system performance



Source: ASHARE Chiller Plant COP Efficiency



Health Check Audit offers rating and assessment on chiller plant and equipment performance, **Chiller Functional Test** is equally essential.



In-depth report confirming the function and condition on all major mechanical and electrical devices in the chiller



Factory-trained and certified Carrier technicians with years of experience perform testing and inspection to verify each components' normal operations



Keep check on **equipment** and restoring everything **in good operational order**



Carrier Service Offerings

Health Check Audit Services

- Chiller plant health check audit service
- Chiller performance M&V audit service
- Chiller equipment functional test service
- Chiller equipment vibration measurement & analysis
- Chiller troubleshoot data logging service
- BMS operation trend log analysis



HVAC System Maintenance & Upgrades Services

- Digital SMARTchiller Maintenance
- ✓ Web/ mobile real-time chiller dashboard
- ✓ Alarm & alert notifications
- ✓ Monthly performance report
- ✓ Daily chiller log report
- ✓ Data trend log download



- Compressor overhaul service
- VFD retrofit for centrifugal chiller
- Chiller control firmware upgrade
- AC condenser coil Blygold coating service
- AC condenser coil replacement service
- BMS optimization control upgrade

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GREEN MAINTENANCE OF WATER-COOLED CHILLERS

KEEPING CONDENSER IN CHECK



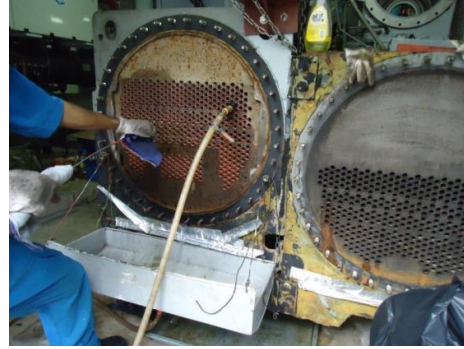
GREEN MAINTENANCE OF WATER-COOLED CHILLERS: KEEPING CONDENSER IN CHECK

Carrier's Green Maintenance Practice help sustains high asset performance and prevent energy waste. Reduce your energy bill dollars with good clean heat exchanger tubes. Best strategy is to keep your chiller condenser tubes in check and carry-out maintenance on "as need" basis, because scaled and fouled tubes will degrade your chiller performance and disrupt overall HVAC system operation.

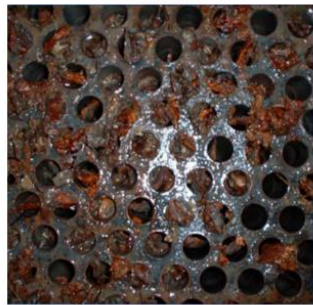


Keep Constant Check on Condenser

Condenser Approach Temperature is an indication of heat transfer effectiveness between the refrigerant in condenser and the cooling water from cooling tower system. A high value of Condenser Approach Temperature compares to a value showing when condenser is clean, implies a poor heat transfer across the condenser tubes which is likely caused by serious fouling condition on tube surface. Negative consequences such as reduced energy efficiency of the chiller, increased pump power and increased risk of exchanger blockage may result. **Keeping a close check on Condenser Approach Temperature to schedule cleaning and inspection of your condenser tubes shall be the proper strategy in managing your energy budget.**

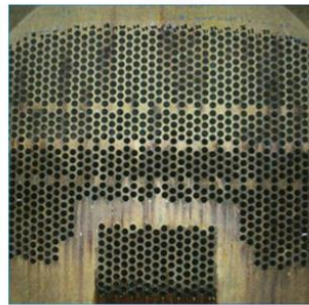


✗



Sludge build up

✓



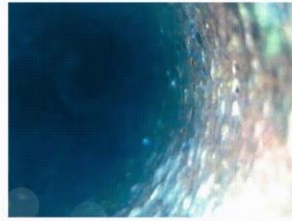
Cleaned tube



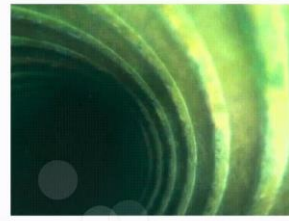
Predictive Options: It is time to Examine your Condenser with Tube Scan service

Leakage in condenser tube can cause devastating damage to compressor and to the whole chiller. **Eddy Current Test** examines minute defects, corrosion signs, eroded pitting and other abnormalities through non-destructive electromagnetic induction prob. And combined this with the use of borescope tube scan camera to provide a visual confirmation. Together the packaged tube scan service offers clear and confident result.

- ✓ Condenser tubes are subjected to constant erosion and corrosion resulting to water leaks into chiller.
- ✓ **Schedule Tube Scan Service every 5 Years to assess and determine conditions of condenser tubes.**



Scale Buildup



Cleaned Tube

Fibrescopic inspections reveals
Internal condenser tubes surfaces

Contact your Carrier representatives to schedule your system health-checks and chiller inspections by emailing Chk.service@Carrier.com or calling 2694 5245 now.

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