

Engineered Air-Creotech MC SERIES CHILLERS



20 TO 80 TONS MODULAR CHILLERS

LIVE CHANGE OUT

- Service any unit without downtime
- Easy water-header disconnect
- Controller auto removes serviced unit
- Easy access to major components

LOWER INSTALLATION COST

- No base or mounting rails needed
- Headers pre-mounted (critical path)

BETTER CAPACITY CONTROL

- Refrigeration operation at maximum efficiency even at partial loads
- Multiple compressor, multiple units match capacity at any load

DEPENDABLE

- Built-in redundancy
- Centralized computer control
- Various Control Sequence Strategies
- Rugged components
- Back up controller

EXPANDABLE/FLEXIBLE

- Start small - expand to 960 tons
- Design flexibility
- Simple new unit addition
- Master controller ready



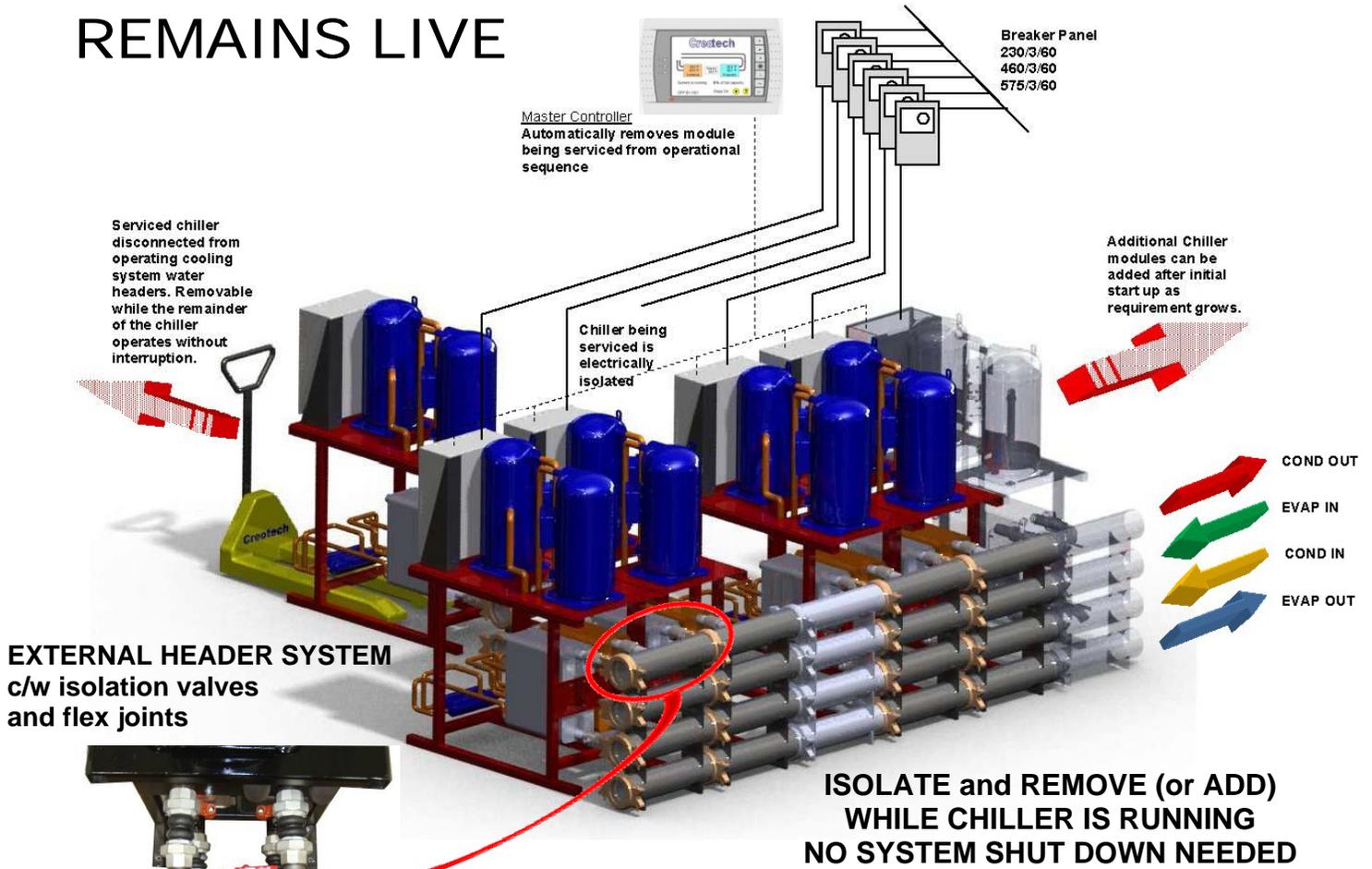
If you have an idea - We'll manufacture it!

www.engineeredair.com

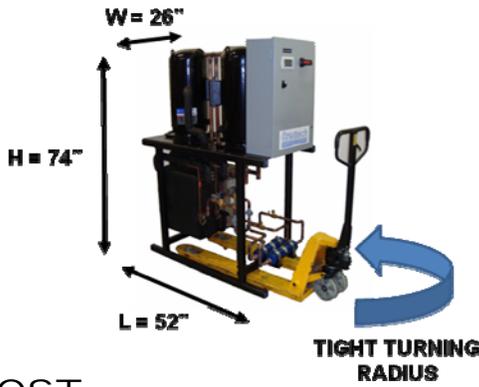


HEATING :: VENTILATING :: AIR CONDITIONING :: AIR QUALITY :: ENERGY RECOVERY

SERVICE WHILE CHILLER REMAINS LIVE

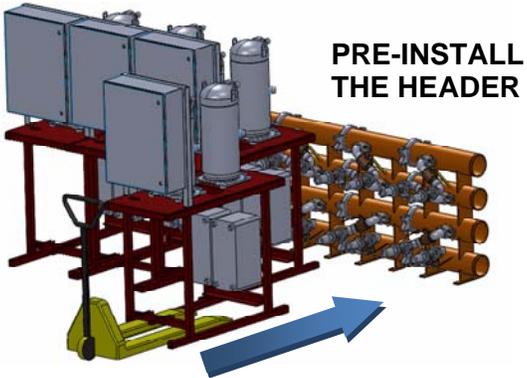


**ISOLATE and REMOVE (or ADD)
WHILE CHILLER IS RUNNING
NO SYSTEM SHUT DOWN NEEDED**

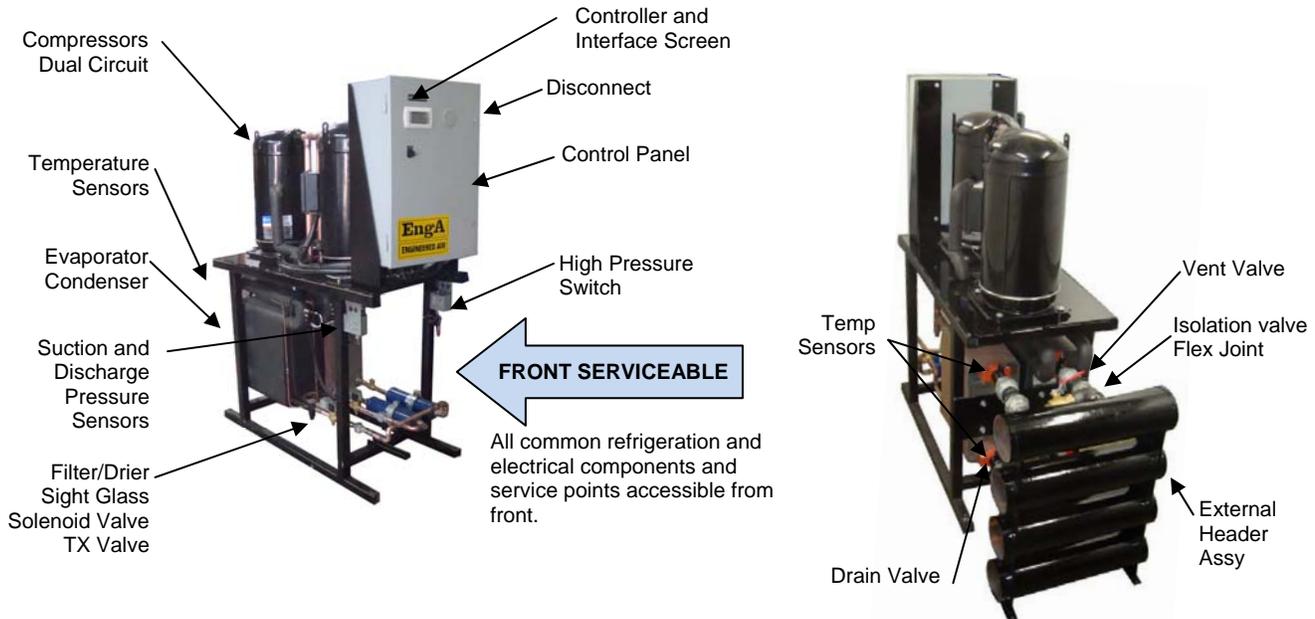


LOWER INSTALLATION COST

- Install header assy before chiller delivery, and complete piping system (leak check, flush, aerate)
- Locate in place – no special tools
- Chiller mounted directly on concrete slab (with vibration pad if required)
- Mount Master controller on side wall and wire to each
- Mount disconnect on wall and wire power to each module



MODULAR CHILLER COMPONENT LAYOUT



LOCAL AND MASTER CONTROLLERS

The Creotech chiller module is built with a stand-alone controller and interactive display. When the individual modules are banked together into one chiller assembly a master controller is added which takes over the overall dead band and FIFO/LIFO control function.

LOCAL CONTROLLER

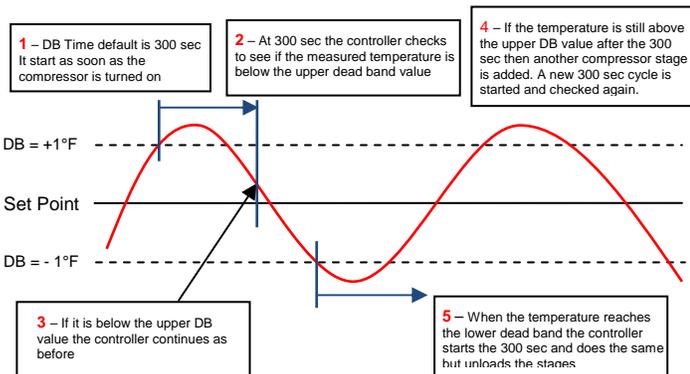
- 8 x 22 character screen
- Drill down information screens
- Controls individual stages
- Temp/press/hours/starts



FEATURES INCLUDE

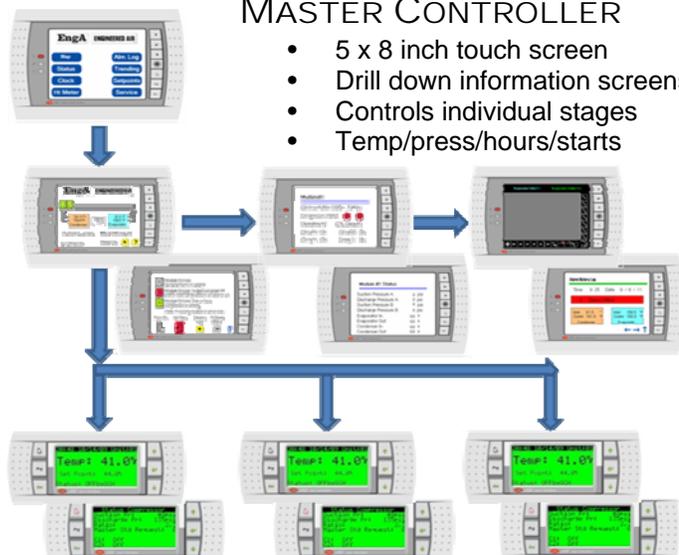
(IN BOTH LOCAL AND MASTER CONTROLLER MODE)

- Control Band Width
- Control Strategies like FIFO/LIFO
- Remote start / stop
- Remote Alarm
- BMS communication
- Flow Demand / interlock
- Min run time
- Min off time
- 2nd comp start up delay
- Freeze Point Protection
- Near Freeze Point
- High Pressure alarm
- Low Pressure alarm



MASTER CONTROLLER

- 5 x 8 inch touch screen
- Drill down information screens
- Controls individual stages
- Temp/press/hours/starts



LAYOUT OPTIONS

Grouped in a row

Back to back

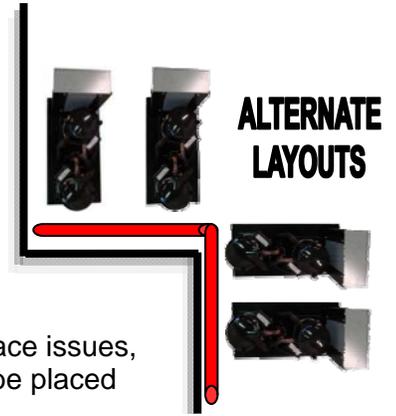
Across the room

Separate rooms

Flexible layout. External header assy allows for many configurations without having to rework mech room. Or pipe directly and not use header to allow even greater flexibility

Basic module foot print 26" x 52" w/o header

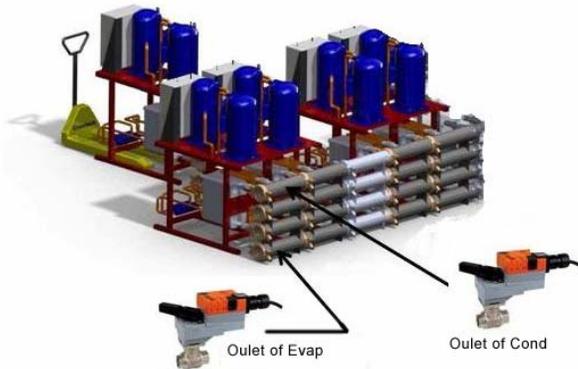
Conventional Layout
(plan view)
with standard header sections



**ALTERNATE
LAYOUTS**

If customer has a lot of space issues,
our units do not have to be placed
side by side

Optional Layout
(plan view)
with contractor
piping



VARIABLE FLOW

- Isolation Valves for each module
- Flow only on Working units
- Better efficiency
- Pump Skids with VFD



OPTIONS

- Air-cooled Condenser
- Acoustical Metal Housing
- Hot Gas By-Pass
- Remove header

OPTIONS - WATER SIDE

- Shell & Tube Condenser
- Strainer
- 2-way control valve
- Auto Isolation valves
- Pump Skids Duty/stand-by (VFD)
- Flow Switch

OPTIONS – ELEC

- BMS (BacNet, Modbus)
- Phase loss Detection



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