CARRIER 23 XRV SCREW CHILLER HEAD PRESSURE VALVE CONTROL WIRING



Condenser Water Return to Tower

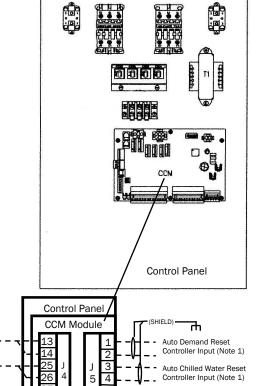
CARRIER 19XR CENTRIFUGAL CHILLER CCM MODULE AND HEAD PRESSURE VALVE

CONTROL WIRING IS IDENTICAL

Manual

Crank

Actuator



20mA Cntrl

8 2

Circuit

10

Common Return (Note 3) Spare Temp #1 Sensor Common Supply (Note 3) Remote Temp Reset

- 1 BLK Valve Actuator

ሕ Spare Temp #2 Sensor

Refrigerant Leak Controller Input (Note 2)

- - 3 WHT To Chiller Head Press

3C

Sensor (Note 3) Notes:

- 1. Requires a controller with a non grounded 4-20 mA or 1-5 Vdc signal. Not by Carrier
- 2. Requires a controller with a non grounded 4-20 mA or 1-5 Vdc signal Not by Carrier
- 3. Requires a sensor package option by Carrier

Add 500 Ohm Resistor between 1 Blk & 3 Wht for Chiller 4 -20 mA Signal or the Resistor may be located at the Chiller Terminal Strip

*4 PNK is not Wire to J8 2 - - -24 VAC X2 _1_Blk 24 VAC X1 _2_Red Wire to J8 1 _3_Wht Pnk 2-10 VDC Feedback 5 Org Manual Position Lever Lock

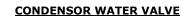
Condenser Water

Supply from Tower

Chiller Head Press Valve Actuator

ACTUATOR HAS 4 TO 1 LEVER

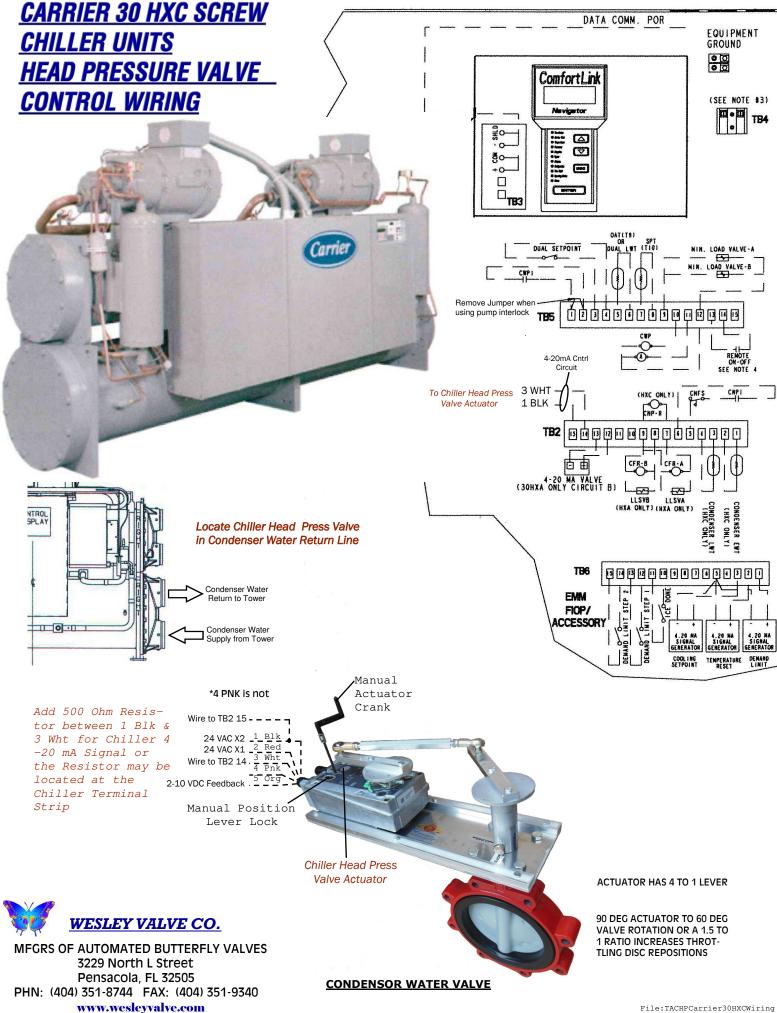
90 DEG ACTUATOR TO 60 DEG **VALVE ROTATION OR A 1.5 TO** 1 RATIO INCREASES THROT-TLING DISC REPOSITIONS





MFGRS OF AUTOMATED BUTTERFLY VALVES 3229 North L Street Pensacola, FL 32505 PHN: (404) 351-8744 FAX: (404) 351-9340

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CARRIER 19 XR CENTRIFUGAL CHILLER HEAD PRESSURE VALVE CONTROL WIRING CARRIER COMFORT NETWORK (CCN) INTERFACE Control Panel Control Panel (SHIELD) **CCM Module** ᅲ Condenser Water Auto Demand Reset Return to Tower Controller Input (Note 1) Auto Chilled Water Reset 0 4 Controller Input (Note 1) Refrigerant Leak Condenser Water Controller Input (Note 2) Supply from Tower To Chiller Head Press Circuit 8 2 _ - Blk Valve Actuator (SHIELD) Spare Temp #2 Sensor Common Return (Note 3) Locate Chiller Head Press Valve in Condenser Water Return Line Spare Temp #1 Sensor Common Supply (Note 3) Remote Temp Reset Manual *4 PNK is not Sensor (Note 3) Actuator Crank Add 500 Ohm Resis-Wire to J8 2 - - tor between 1 Blk & 1. Requires a controller with a non 24 VAC X2 _1_B1k grounded 4-20 mA or 1-5 Vdc 3 Wht for Chiller 4 24 VAC X1 2 Red Wire to J8 1 3 Wht Pnk signal. Not by Carrier -20 mA Signal or 2. Requires a controller with a non the Resistor may be grounded 4-20 mA or 1-5 Vdc 2-10 VDC Feedback 5 located at the signal Not by Carrier Chiller Terminal 3. Requires a sensor package Manual Position Strip option by Carrier

Lever Lock

Chiller Head Press Valve Actuator

ACTUATOR HAS 4 TO 1 LEVER

90 DEG ACTUATOR TO 60 DEG VALVE ROTATION OR A 1.5 TO 1 RATIO INCREASES THROT-TLING DISC REPOSITIONS

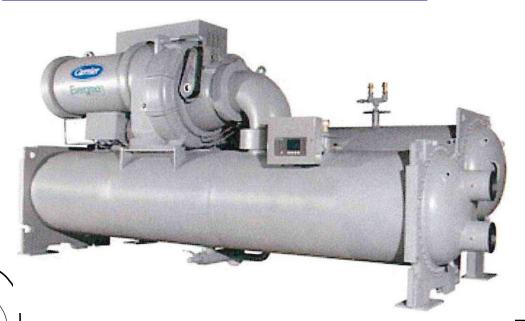


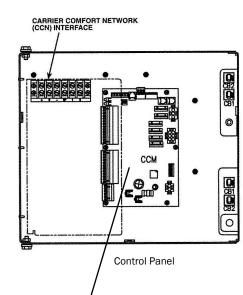
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CONDENSOR WATER VALVE

CARRIER 19 XR CENTRIFUGAL CHILLER HEAD PRESSURE VALVE CONTROL WIRING





(SHIELD)

-Wht

- - Blk

(SHIELD)

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Auto Demand Reset Controller Input (Note 1) Auto Chilled Water Reset

Refrigerant Leak

Controller Input (Note 1)

Controller Input (Note 2)

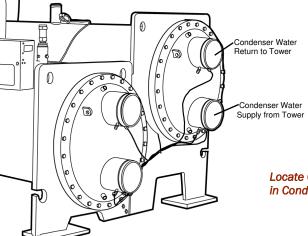
Spare Temp #2 Sensor

Spare Temp #1 Sensor

Common Return (Note 3)

To Chiller Head Press

Valve Actuator



Locate Chiller Head Press Valve in Condenser Water Return Line

Manual

Crank

Actuator

*4 PNK is not

Add 500 Ohm Resistor between 1 Blk & 3 Wht for Chiller 4 -20 mA Signal or the Resistor may be located at the Chiller Terminal Strip

Wire to J8 2 - - -24 VAC X2 _1_B1k 24 VAC X1 _2_ Red Wire to J8 1 . 3 Wht Pnk 2-10 VDC Feedback Manual Position

Lever Lock

Chiller Head Press Valve Actuator

Common Supply (Note 3) Remote Temp Reset Sensor (Note 3) Notes: 1. Requires a controller with a non grounded 4-20 mA or 1-5 Vdc signal. Not by Carrier

Control Panel

CCM Module

5 4

5

26

20mA Cntrl

Circuit

2. Requires a controller with a non grounded 4-20 mA or 1-5 Vdc signal Not by Carrier

Manual Position Lever Lock

> Manual Actuator Crank

Wire Color to Color to the other Tandem Actuator

CONDENSOR WATER VALVE

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WESLEY VALVE CO.

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ACTUATOR HAS 4 TO 1 LEVER OR TORQUING ADVANTAGE

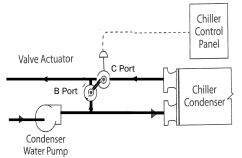
Chiller Head Press

Valve Actuator

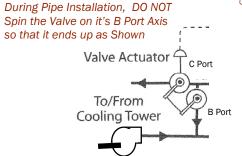
90 DEG ACTUATOR TO 60 DEG VALVE ROTATION OR A 1.5 TO 1 RATIO INCREASES THROTTLING

<u>CARRIER 23 XRV SCREW CHILLER</u> HEAD PRESSURE VALVE CONTROL WIRING





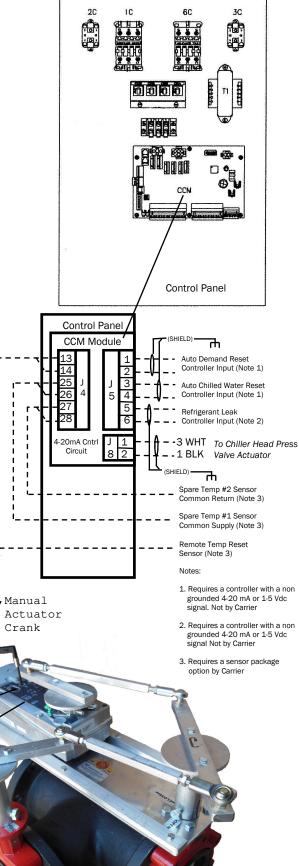
CORRECT 3-WAY VALVE PIPING



INCORRECT 3-WAY VALVE PIPING

CARRIER 19XR CENTRIFUGAL CHILLER CCM MODULE AND HEAD PRESSURE VALVE CONTROL WIRING IS IDENTICAL

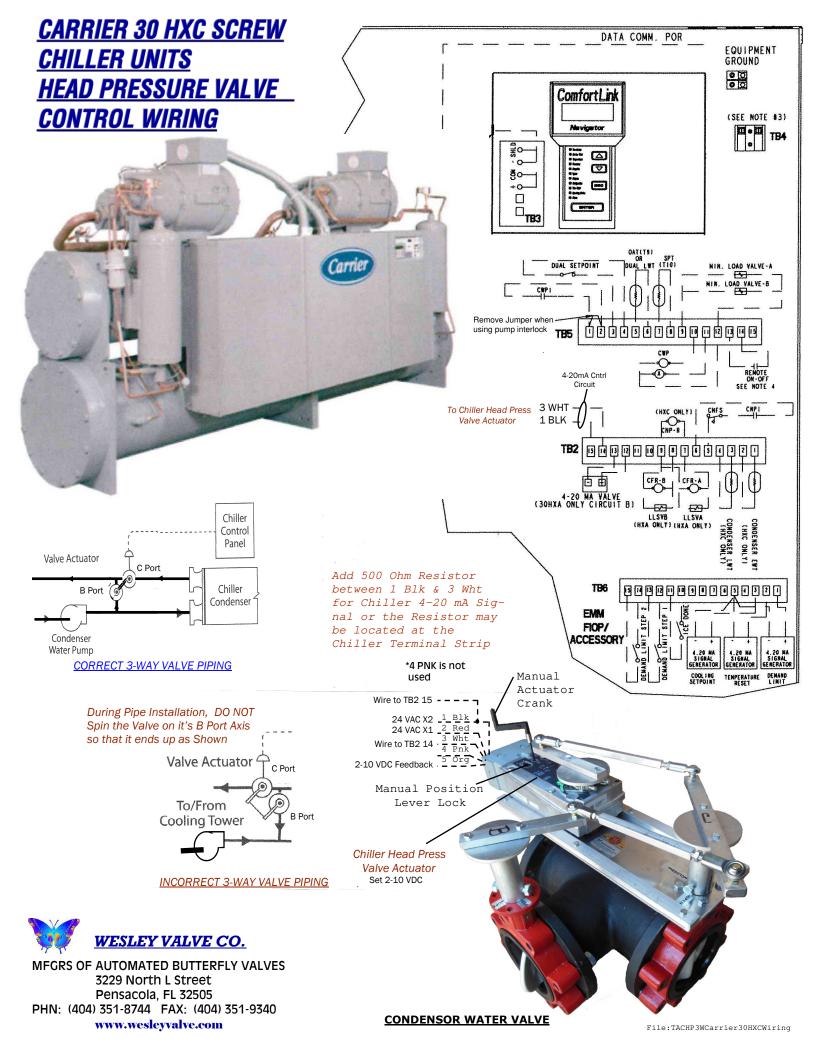
Add 500 Ohm Resistor between 1 Blk & 3 Wht for Chiller 4-20 mA Signal or the Resistor may be located at the Chiller Terminal Strip





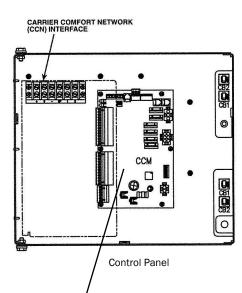
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CARRIER 19 XR CENTRIFUGAL CHILLER HEAD PRESSURE VALVE CONTROL WIRING





(SHIELD)

- -Wht

- - Blk

(SHIELD) -

Auto Demand Reset Controller Input (Note 1)

Auto Chilled Water Reset

Controller Input (Note 1) Refrigerant Leak

Controller Input (Note 2)

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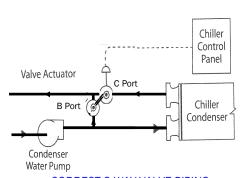
Spare Temp #2 Sensor

Spare Temp #1 Sensor

Common Return (Note 3)

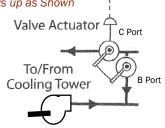
To Chiller Head Press

Valve Actuator



CORRECT 3-WAY VALVE PIPING

During Pipe Installation, DO NOT Spin the Valve on it's B Port Axis so that it ends up as Shown Valve Actuator



INCORRECT 3-WAY VALVE PIPING

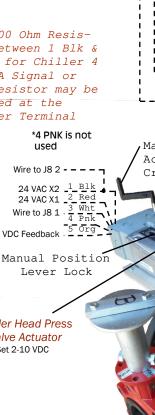
Add 500 Ohm Resistor between 1 Blk & 3 Wht for Chiller 4 -20 mA Signal or the Resistor may be located at the Chiller Terminal Strip

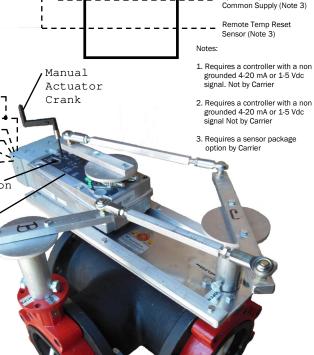
*4 PNK is not used

Wire to J8 2 - - -24 VAC X2 _1_B1k 24 VAC X2 2 Red 24 VAC X1 2 Red White to J8 1 3 White Pink 2-10 VDC Feedback 5 Org

Lever Lock

Chiller Head Press Valve Actuator Set 2-10 VDC





Control Panel

CCM Module

20mA Cntrl

Circuit

4

5



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