


Carrier		Wiring, Controls and Troubleshooting	30GB
Flotronic™ Reciprocating Liquid Chillers 50 and 60 Hz			
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SAFETY CONSIDERATIONS			
Installation, Start-up and Servicing of this equipment can be hazardous due to system pressures, electrical components and equipment location (roofs, elevated structures, etc).			
Only trained, qualified installers and service mechanics should install, start-up and service this equipment.			
Untrained personnel can perform basic maintenance functions of cleaning coils. All other operations should be performed by trained service personnel.			
When working on the equipment, observe precautions in the literature, tags, stickers and labels attached to the equipment and any other safety precautions that apply.			
<ul style="list-style-type: none"> Follow all safety codes. Wear safety glasses and work gloves. Use care in handling, rigging and setting bulky equipment. Use care in handling electronic components. 			
 ELECTRIC SHOCK HAZARD Open all remote disconnects before servicing this equipment.			
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Microprocessor When expansion valve is fully open and This allows unit to run at very low condensing temperatures LOAD SHED — If load shed option is being used, control Controls and Troubleshooting literature for details. If capacity. The head pressure is controlled by fan cycling. The desired The usual head pressure control method also field configured Refer to unit. Controls and Troubleshooting

literature for head pressure control configurations. If temperature reset is being used, the unit controls to all demand limit is used, the unit mayWhen the occupied period ends, or when the building loadIf a fault condition is signalled requiring immediate shutdown, pumpout is omitted. NOTE Temperatures and pressures are measured by thermistors and transducers. See base unit installation instructionsIf ambient temperature is below 36 F 2 C,When control ON/OFF switch is turned to ON, control firstTEMPERATURE RESET — If temperature reset is beingRefer to Controls and Troubleshooting book for details. If leaving fluid temperature isRate at which compressors are started depends on leavingOn standard units, an automatic leadlag feature in controlContactor, Compressor. Circuit Breaker. Control Circuit Breaker. Carrier Comfort Network. Circuit Ground Fault. Crankcase Heater. Cooler Heater Cable. Cooler Heater Thermostat. Circuit. Cooler Heater Relay. Communications. Compressor. Condensing. Control Power. Compressor Protection. Control Module. Control Relay. Chilled Water Fluid. Flow Switch. Chilled Water Fluid Pump. Interlock. Discharge Pressure. Transducer. EXV Driver. Relay Module, Low Voltage. Dummy Terminal. Read-Only Memory. Equipment Ground. Electronic Expansion Valve. Fan Contactor. Fan Circuit Breaker/Fan Motor. Fuse. Ground Fault Interrupter —. Convenience Outlet. Hot Gas. Hot Gas Bypass Relay. Hot Gas Bypass Solenoid. High-Pressure Switch. Keypad and Display Module. Heater. Loss-of-Charge Switch. Local Interface Device. Liquid Line Solenoid Relay. Liquid Line Solenoid Valve.

Normally Closed. National Electrical Code U.S.A.. Normally Open. Outdoor Air. Oil Pressure Transducer. Potentiometer. Plug Assembly. Primary. Power Supply. Processor Module. Part Wind Start. Power. Relay Board Plug. Secondary. Sensor Toroid. Suction Pressure Transducer. Switch. T1, T2, etc.Terminal Block. Time Delay Relay. Temperature. Transformer. Thermostatic Expansion Valve. Unloader. Volts Direct Current. Across-the-Line Start. Terminal Block Connection. Marked Terminal. Unmarked Terminal. Unmarked Splice. Marked Wire. Marked Splice. Factory Wiring. Field Control Wiring. Field Power Wiring. Indicates Common Potential. Does not Represent Wiring. Accessory or Option WiringThe contacts must beThe contacts must be rated forThe maximum allowable loadThree-phase motors are protected against primary single phasing conditions.Line numbers are shown on the left side of the diagram.Field modifications orAll units may use copper conductors. Copper-clad aluminum or aluminum conductors for all units except 30GN,GT,GU110 346350. XL. Maximum incoming wire size for each terminal block isConnect neutral side of supply to Terminal 2 of TB4. Control circuitConnect neutral side of supply to Terminal 2 of TB4. Control circuitConnect neutralControl circuit conductors for allMaxIt should be added to circuit B. IfFig. 21 — Control Label; 30GN040070; 115, 230 V. Fig. 22 — Control Label; 30GN080110, 230B315B; 24 V. Fig. 23 — Control Label; 30GN080110, 230B315B; 115, 230 V. Fig. 26 — Control Label; 30GT,GU040070; 24 V. Fig. 27 — Control Label; 30GT,GU040070; 115, 230 V. Fig. 28 — Control Label; 30GT,GU080100, 230B315B; 24 V. Fig. 29 — Control Label; 30GT,GU080100, 230B315B; 115, 230 VChilled Water Return Temperature. Compressor A1 Suction Gas Temperature. Compressor B1 Suction Gas TemperatureDischarge Pressure, Circuit A. Discharge Pressure, Circuit B. Suction Pressure, Circuit A. Suction Pressure, Circuit B. Oil Pressure, Circuit A. Oil Pressure, Circuit B. K3 Relay — Alarm Relay.

K1 Relay — Fan Relay Stage 2, Circuit A. K2 Relay — Fan Relay Stage 3, Circuit A. K4 Relay — Fan Relay Stage 2, Circuit B. K5 Relay — Fan Relay Stage 3, Circuit B. K6 Relay — Chilled Water Pump Relay. Compressor A1 Feedback. Compressor A2 Feedback. Compressor B1 Feedback. Compressor B2 Feedback. Compressor A1 Safeties; Compressor A1 Relay. Fan Contactor Stage 1, Circuit A. Compressor A2 Safeties; Compressor A2 Relay. Unloader U2A1 Relay AccessoryCompressor A4 Safeties; Compressor A4 Relay. Compressor B1 Safeties; Compressor B1 Relay. Fan Contactor Stage 1, Circuit B. Compressor B2 Safeties; Compressor B2 Relay. Unloader U2B1 Relay Accessory. Compressor B3 Safeties; Compressor B3 Relay. Unloader U1B1 Relay. Not Used. Not UsedNot Used. Spare Temperature Sensor No. 1. Spare Temperature Sensor No. 2. Demand Limit by Switch Stage

No. 2. Demand Limit by Switch No. 1 or Remote Dual Set Point Switch. Remote Reset Thermistor or. Remote Reset by 420 mA Signal. Hot Gas Bypass Relay Accessory Hot Gas Bypass Relay B Accessory. Unloader Relay B Accessory. Motormaster Device B 420 mA Control Accessory The default display is displayed every 2 seconds if there has been no manual input from the keypad for Electronic Expansion Valve. Hour. Minute. Maximum Overcurrent Protection For example, Expanded information will scroll through the display To enter a subfunction, press the number of To move within that subfunction, press the up. For example, a Must be configured. For a more detailed explanation of keypad operation and for startup procedure of unit, refer to the Displays Mode in Effect Demand Limit Set Point. Load Limit Set Point Reset Temperature Transducer Supply Voltage. Demand 420 mA Signal. Reset 420 mA Signal Dual Set Point Switch. Oil Pressure Switch 1. Oil Pressure Switch 2. Demand Limit Switch 1. Demand Limit Switch 2 Cooler Water Pump Relay K6. Unloader A1. Unloader A2. Unloader B1. Unloader B2 Hot Gas Bypass Relay Circuit A. Hot Gas Bypass Relay Circuit B.

Motormaster B Output Percent Energize Cooler Water Pump K6 Energize Hot Gas Bypass Relay. Energize Hot Gas Bypass Relay. Enter Desired Motormaster Device B Output Signal. During compressor test, compressors will start and run for Test Compressor A2. Test Compressor A3. Test Compressor A4 Test Compressor B2. Test Compressor B3. Test Compressor B4. Energize Unloader A1. Energize Unloader A2. Energize Unloader B1. Energize Unloader B2 The clock select subfunction can be used for unoccupied The Schedule function described is for clock 1, which Password required for all subfunctions except override. For example To extend current occupied mode for 3 hrs, press For further information on the Schedule function and At this time, configurations may be modified. The next 3 subfunctions provide the ability to modify configurations. Refer to base unit Installation, StartUp, and Service Instructions for further To change a configuration, enter the new configuration and press To change a set point, enter the new set point value, then press Cooling Max Reset. Max Reset Occurs at X mA or Degree. Cooling Minimum Reset. Min Reset Occurs at X mA or Degree Demand Switch 1 Set Point. Demand Switch 2 Set Point Maximum Demand Limit Occurs at X mA Minimum Demand Limit Occurs at X mA. CCN Loadshed Amount Month.Day.Year. When entering date, enter Each entry must Condensing. Saturated Resets at 6 F above set point. Fig. 53 — StartUp and Diagnostic Information; 30GT, GU080110, 230B315B cont The control will then proceed to the During this time period, the number If the display button is pushed during this time period, the control will Controls and Troubleshooting book. The stage number represents the stage of capacity at which The operating status information codes inform the operator Troubleshooting instructions.

Table A below lists all operating The overload information codes indicate why a circuit, For a more detailed explanation of the failures, action taken by the microprocessor, and the A summary of the codes is listed in. Table B. After the initial time delay has passed, the The numbers Operating Status Information. Overload Information If status codes or overload codes are being displayed, Temperature Reset in Effect. Demand Limit in Effect. Pulldown Control in Effect. Remote Off in Effect. Quick Test Entering Cooler Water. Saturated Condensing Temperature — Circuit A. Saturated Condensing Temperature — Circuit B. Saturated Suction Temperature — Circuit A. Saturated Suction Temperature — Circuit B. Superheated Gas Entering Piston — Circuit A. Superheated Gas Entering Piston — Circuit B. Reset Temperature Sensor Accessory Only Entering Water Baffle Space. Header End of Coil Fig. B. Cooler Head Near Liquid Nozzle. Lead Compressor — Circuit A Fig. A. Lead Compressor — Circuit B Fig. A. No. Failure Loss of Charge — Circuit B.