



Think Water!

START-UP CHECKLIST FOR MULTIAQUA CHILLER

A. Preliminary Information

JOB NAME _____

LOCATION _____

INSTALLING CONTRACTOR _____

DISTRIBUTOR _____

START-UP PERFORMED BY _____

DATE _____

OUTDOOR AIR TEMPERATURE: DEGREES F _____

EQUIPMENT:

Chiller: MODEL # _____ SERIAL # _____

COMPRESSOR(S):

CIRCUIT #1

MODEL # _____

SERIAL # _____

CIRCUIT #2

MODEL # _____

SERIAL # _____

CIRCUIT #1

CONDENSER MOTOR # _____

CIRCUIT #2

CONDENSER MOTOR # _____

B. Preliminary Equipment Check

IS THERE ANY SHIPPING DAMAGE? (YES or NO)

IF SO, WHERE _____

WILL THIS DAMAGE PREVENT UNIT START-UP? (YES or NO)

DOES THE VOLTAGE AND PHASE AGREE WITH UNIT'S NAMEPLATE? (YES or NO)

HAS THE CIRCUIT PROTECTION BEEN SIZED AND INSTALLED PROPERLY? (YES or NO)

HAS THE PRIMARY VOLTAGE TO THE TRANSFORMER BEEN VERIFIED? (YES or NO)

ARE THE POWER WIRES TO THE UNIT SIZED AND INSTALLED PROPERLY? (YES or NO)

HAS THE PHASING OF THE PRIMARY VOLTAGE BEEN VERIFIED? (YES or NO)

HAS THE GROUND WIRE BEEN CONNECTED? (YES or NO)

ARE ALL CONTROL AND HIGH VOLTAGE TERMINALS TIGHT? (YES or NO)

LIQUID SOLUTION

MODEL # OF LIQUID SOLUTION PUMP _____

SERIAL # _____

NAME PLATE AMP RATING _____

HAS THE LIQUID SOLUTION BEEN CHECKED FOR MINIMUM 10% PROPYLENE GLYCOL? (YES OR NO)

WHAT IS THE PERCENTAGE OF PROPYLENE GLYCOL IN SYSTEM? _____

HAS ALL AIR BEEN VENTED FROM THE CHILLER'S LOOP? (YES OR NO)

IS THE LIQUID SOLUTION PUMP INTERNAL TO THE CHILLER? (YES OR NO)

HAS THE LIQUID SOLUTION PIPING BEEN CHECKED FOR LEAKS? (YES OR NO)

C. UNIT START-UP

LIQUID SOLUTION CONTROLLER

LIQUID SOLUTION COOLING SETPOINT: DEGREES F _____

LIQUID SOLUTION COOLING DIFFERENTIAL: DEGREES F _____

LIQUID SOLUTION HEATING SETPOINT: DEGREES F _____

LIQUID SOLUTION HEATING DIFFERENTIAL: DEGREES F _____

LIQUID SOLUTION

CHILLER'S LIQUID SOLUTION ENTERING TEMPERATURE: DEGREES F _____

CHILLER'S LIQUID SOLUTION LEAVING TEMPERATURE: DEGREES F _____

LIQUID SOLUTION PUMP. ENSURE THESE READINGS ARE WITHIN THE SPECIFICATIONS OF THE CHILLER

IS THE ROTATION OF THE LIQUID SOLUTION PUMP CORRECT? (YES OR NO)

GPM _____

LIQUID SOLUTION PUMP DISCHARGE PRESSURE: PSI _____

LIQUID SOLUTION PUMP SUCTION PRESSURE: PSI _____

L1: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L2: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L3: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

COMPRESSOR(S): ENSURE THESE READINGS ARE WITHIN THE SPECIFICATIONS OF THE CHILLER

CIRCUIT #1

L1: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L2: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L3: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

CIRCUIT #2

L1: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L2: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L3: _ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

REFRIGERANT CIRCUIT #1

LIQUID LINE TEMPERATURE: DEGREES F _____

LIQUID LINE PRESSURE: PSI _____

SUCTION LINE TEMPERATURE: DEGREES F _____

SUCTION LINE PRESSURE: PSI _____

SUBCOOLING _____ SUPERHEAT _____

REFRIGERANT CIRCUIT #2

LIQUID LINE TEMPERATURE: DEGREES F _____

LIQUID LINE PRESSURE: PSI _____

SUCTION LINE TEMPERATURE: DEGREES F _____

SUCTION LINE PRESSURE: PSI _____

SUBCOOLING _____ SUPERHEAT _____

CONDENSER FAN MOTOR(S) ENSURE THESE READINGS ARE WITHIN THE SPECIFICATIONS OF THE CHILLER

CIRCUIT #1

L1: ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L2: ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

CIRCUIT #2

L1: ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

L2: ACTUAL VOLTAGE _____ ACTUAL PHASE _____ ACTUAL AMPERAGE _____

OVERALL OPERATION

LEAK CHECK THOROUGHLY: COMPRESSOR(S), CONDENSER FITTINGS, TXV(s), BRAZED PLATE HEAT EXCHANGERS LIQUID SOLUTION PUMP AND PIPING.

MAXIMUM DEVIATION FROM AVERAGE VOLTAGE

IF OVER 4% VOLTAGE IMBALANCE, DO NOT ATTEMPT TO START CHILLER!

CALL LOCAL POWER COMPANY FOR ASSISTANCE.

ASSURE THAT INCOMING POWER VOLTAGE TO CHILLER IS WITHIN RATED UNIT VOLTAGE RANGE.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.