

TITLE:WATER TO WATER I20 (208/230-60-1) DXM RESIDENTIAL

PCN16-0178DATE:04/19/16

DRAWING NO.96B0225N10REV B

LEGEND

FACTORY LOW VOLTAGE WIRING

FACTORY LINE VOLTAGE WIRING

FIELD LOW VOLTAGE WIRING

FIELD LINE VOLTAGE WIRING

PRINTED CIRCUIT TRACE

OPTIONAL WIRING

OPTIONAL BLOCK

CAPACITOR

CIRCUIT BREAKER

CONDENSATE PAN

GROUND

FLOW SWITCH

High Pressure Switch

LED

Low Pressure Switch

MATE-N-LOCK

Multi Splice Connector

OPTIONAL

RELAY CONTACTS - N.C.

RELAY CONTACTS - N.O.

RELAY / CONTACTOR COIL

SOLENOID COIL

SPLICE CAP

TEMPERATURE SWITCH

THERMISTOR

WIRE NUT

ALALARM RELAY CONTACTS

BMBLOWER MOTOR

BMCBLOWER MOTOR CAPACITOR

BRBLOWER RELAY

CAPCAPACITOR

CBCIRCUIT BREAKER

CRCOMPRESSOR RELAY

COCONDENSATE OVERFLOW SENSOR

CTBCOMMON TERMINAL BLOCK

DMDAMPER MOTOR

ESEND SWITCH

FPISENSOR, LOW TEMP PROTECTION, WATER COIL

FP2SENSOR, LOW TEMP PROTECTION, AIR COIL

FSISOURCE FLOW SWITCH

FS2LOAD FLOW SWITCH

FSSFAN SPEED SWITCH

HPHIGH PRESSURE SWITCH

HPWSHIGH PRESSURE WATER SWITCH

JWJUMPER WIRE

LATLEAVING AIR TEMPERATURE

LOCLOSS OF CHARGE PRESSURE SWITCH

LWTLEAVING WATER TEMPERATURE

MSCMULTI SPLICE CONNECTOR

PBPOWER TERMINAL BLOCK

PIFIELD WIRING TERMINAL BLOCK

RASRETURN AIR SENSOR

SACSTART ASSIST CAPACITOR

TRANSFORMER

UMTUNIT MOUNTED THERMOSTAT

WVWATER VALVE

NOTES:

1. Compressor and Blower Motor thermally protected internally.

2. All wiring to the unit must comply with NEC and local codes

Low Voltage Wiring shall be Class 2 or Equivalent.

3. 208/230V Transformer will be connected for 208V operation. For 230V operation, disconnect RED lead at L2 and attach ORG lead to L2. Insulate open end of RED lead. 380/420V Transformer will be connected for 380V operation. For 420V operation, disconnect VIO lead at L2 and attach BRN lead to L2. Insulate open end of VIO lead. 460V Transformer will be connected to (BLK/RED) lead. Transformer will be connected to (GRY) lead.

4. FP1 Provides Low Temperature protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.

5. Typical Heat Pump Thermostat wiring shown. Refer to Thermostat IOM for wiring to the unit. T-Stat wiring must be "Class 1" and Voltage Rating equal to or greater than unit supply voltage. Refer to CABINET or AUXILIARY Wire Diagram for LON, MPC, ADA TSTAT & SURFACE MOUNT TSTAT WIRING.

6. 24V Alarm Signal Shown. For Dry Alarm contact between AL1 & AL2, cut JW1 for CXM/DXM Gen2 or JW4 DXM.

7. Transformer Secondary Ground Via CXM/DXM Board Standoffs and screws to Control Box.

8, 9, 10. --RESERVED

11. HWG pump only in models with hot water generation and internal pump option. Factory default Temperature setting is 125F. For 150F setting, Anti Scald Valve must be used. See Unit IOM for instructions.

12. Suffix 1 designates association with Lead compressor, Suffix 2 with Lag compressor. EXCEPTION AL1, AL2, FP1, FP2 ARE PER LEGEND.

The diagram illustrates the electrical wiring for the Water to Water I20 unit. It includes two main power sections for Compressor 1 and Compressor 2, each with a capacitor and run winding. A central power block distribution section shows connections for 24VAC and ground. The control logic section features a DXM Microprocessor with various input and output terminals, including fan enable, fan speed, high pressure, low pressure, and temperature sensors. It also shows the internal HWG + Pump Option with a hot water generator and pump, and an optional external or internal pump. The diagram includes a detailed component location section at the bottom right, showing the physical layout of the unit's components.

HWG BOARD DIP SWITCH SETTINGS			
HWG PUMP TEST		HWG TEMP	HWG STATUS
SW10	PUMP TEST	SW11	SW12
ON	ON	ON	ON
OFF	OFF	OFF	OFF
	NORM	150F	DISABLED
		125F	ENABLED

FOR HWG DIP SWITCH SETTINGS SEE IOM