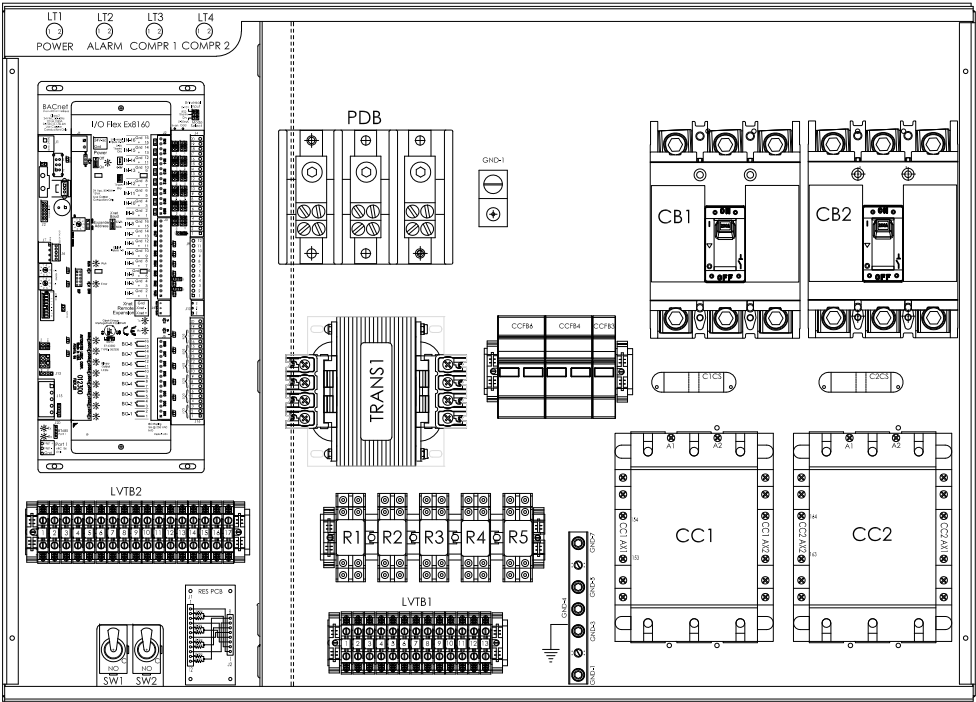
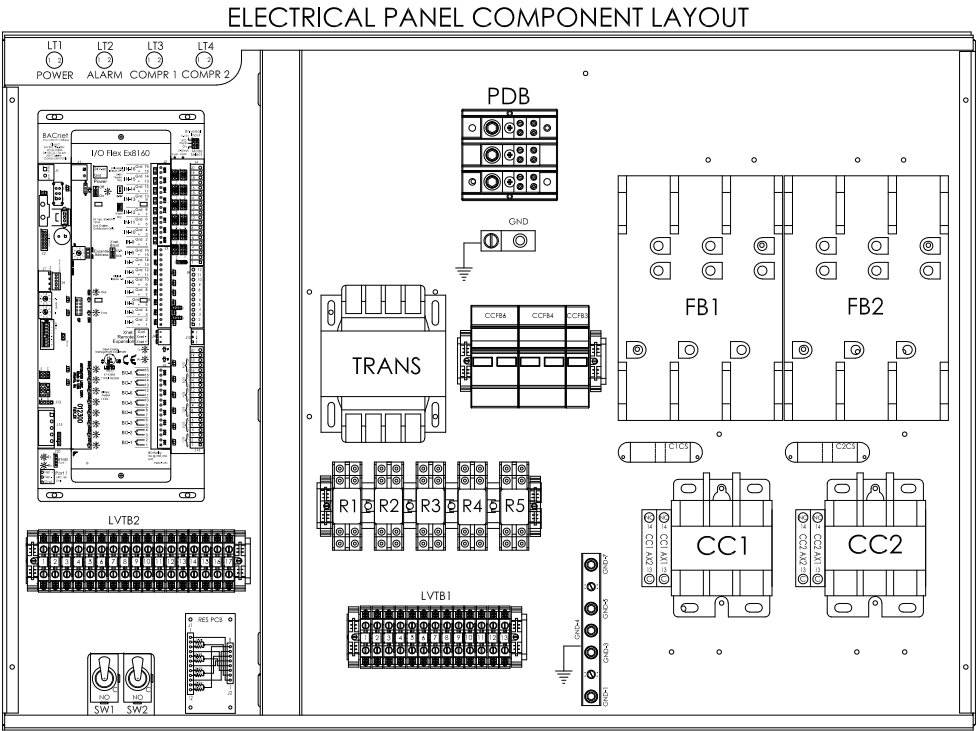


Elec. Diagram Unit Power & Full Micro Controller				
TMW Water to Water Heat Pump Product Family Optional Motorized Valves for Both Chiller & Condenser Water Flow				
SIZE	File No.	Dwg. No.	REV	
B	96B0152N09	96B0152N09	F	
SCALE	None	DATE	04/19/2023	SHEET 2 OF 3

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
K	Model #	Fuse Block	Fuse Amps	Fuse VAC	Fuse Type	Trans VA Rating	Control Cir. Wire Ga.	CC1, CC2 Amp Rating	Compr. Wire Ga.	Torque PDB Lugs						
	TMW360CH	CB1, CB2	125	208-230	N/A	250	14 ga.	75	4 ga.	180 lb-in						
		CCFB3	12	24	LP-CC											
		CCFB4	3	208-230	LP-CC											
		CCFB6	1.25	208-230	LP-CC						90W (x2)					
J	TMW360CF	FB1, FB2	40	460	RK-5	150	18 ga.	40	8 ga.	180 lb-in						
		CCFB3	6	24	LP-CC											
		CCFB4	0.8	460	LP-CC											
		CCFB6	1	460	LP-CC						90W (x2)					
	TMW360CN	FB1, FB2	35	575	RK-5	250	18 ga.	40	10 ga.	180 lb-in						
CCFB3		6	24	LP-CC												
CCFB4		0.6	575	LP-CC												
CCFB6		1	575	LP-CC	90W (x2)											
I	Model #	Fuse or C/B Name	Fuse or C/B Amp Rating	Fuse or C/B VAC	Fuse Type	Trans VA Rating	Control Cir. Wire Ga.	CC1, CC2 Amp Rating	Compr. Wire Ga.	Torque PDB Lugs						
	TMW600CH	CB1, CB2	200	208-230	N/A	500	14 ga.	150	2 ga.	325 lb-in						
		CCFB3	15	24	LP-CC											
		CCFB4	4	208-230	LP-CC											
		CCFB6	2	208-230	LP-CC						140W (x2)					
H	TMW600CF	CB1, CB2	90	460	N/A	150	18 ga.	60	6 ga.	180 lb-in						
		CCFB3	6	24	LP-CC											
		CCFB4	0.8	460	LP-CC											
		CCFB6	1	460	LP-CC						140W (x2)					
	TMW600CN	FB1, FB2	60	575	RK-5	250	18 ga.	50	8 ga.	180 lb-in						
CCFB3		6	24	LP-CC												
CCFB4		0.8	575	LP-CC												
CCFB6		1	575	LP-CC	140W (x2)											
G	Model #	Fuse or C/B Name	Fuse or C/B Amp Rating	Fuse or C/B VAC	Fuse Type	Trans VA Rating	Control Cir. Wire Ga.	CC1, CC2 Amp Rating	Compr. Wire Ga.	Torque PDB Lugs						
	TMW840CH	CB1, CB2	250	208-230	N/A	500	14 ga.	150	1/0 ga.	375 lb-in						
		CCFB3	15	24	LP-CC											
		CCFB4	4	208-230	LP-CC											
		CCFB6	2	208-230	LP-CC						140W (x2)					
F	TMW840CF	CB1, CB2	125	460	N/A	250	14 ga.	75	4 ga.	180 lb-in						
		CCFB3	12	24	LP-CC											
		CCFB4	1.5	460	LP-CC											
		CCFB6	1	460	LP-CC						140W (x2)					
	TMW840CN	CB1, CB2	100	575	N/A	250	18 ga.	60	6 ga.	180 lb-in						
CCFB3		6	24	LP-CC												
CCFB4		0.8	575	LP-CC												
CCFB6		1	575	LP-CC	140W (x2)											



CODE	DESCRIPTION
CB1	Compressor 1 Circuit Breaker (in lieu of compr fusing)
CB2	Compressor 2 Circuit Breaker (in lieu of compr fusing)
CC1	Compressor 1 Contactor
CC2	Compressor 2 Contactor
CC1AX1	Auxiliary Contacts 1 of Compressor 1 Contactor
CC1AX2	Auxiliary Contacts 2 of Compressor 1 Contactor
CC2AX1	Auxiliary Contacts 1 of Compressor 2 Contactor
CC2AX2	Auxiliary Contacts 2 of Compressor 2 Contactor
CCFB3	Control Circuit Fuse Block #3, 1-Pole, x-Former Sec.
CCFB4	Control Circuit Fuse Block #4, 2-Pole, x-Former Pri.
CCFB6	Control Circuit Fuse Block #6, 2-Pole, Crankcase Heaters
CCH1	Compressor #1 Crankcase Heater
CCH2	Compressor #2 Crankcase Heater
COMP1	Compressor 1
COMP2	Compressor 2
CPM1	Compressor 1 Overload Module
CPM2	Compressor 2 Overload Module
C1CS	Compressor 1 current switch
C2CS	Compressor 2 current switch
FB1	Compressor 1 Fuse Block
FB2	Compressor 2 Fuse Block
HPC1	Circuit 1 High Pressure Control Switch (Manual Reset)
HPC2	Circuit 2 High Pressure Control Switch (Manual Reset)
LT1	Power On Light
LT2	Main Failure Light
LT3	Comp. #1 On Light
LT4	Comp. #2 On Light
LVTB1	Low Voltage Terminal Block (Main Control Panel)
LVTB2	Low Voltage Terminal Block (Micro Cntrlr. & Sensor Panel)
MVCD	Motorized Valve, Condenser/Source Water (Optional)
MVCH	Motorized Valve, Chilled/Load Water (Optional)
MVCDAX1	Auxiliary Contacts 1 of Condenser/Source Motorized Valve (Opt.)
MVCHAX1	Auxiliary Contacts 1 of Chilled/Load Motorized Valve (Opt.)
PDB	Power Distribution Block
PS1	Pressure Sensor (Transducer) #1, Compr. 1 Suct.
PS2	Pressure Sensor (Transducer) #2, Compr. 2 Suct.
PS3	Pressure Sensor (Transducer) #3, Compr. 1 Disch.
PS4	Pressure Sensor (Transducer) #4, Compr. 2 Disch.
R1	Control Relay, Compressor #1
R2	Control Relay, Compressor #2
R3	Reversing Valve Relay
R4	Control Relay, Motorized Valve, Evap. & Cond.
R5	Remote Main Fault Relay
RES. PCB	Resistor PC Input Board (Micro Cntrlr. & Sensor Panel)
RV51	Reversing Valve Solenoid 1
RV52	Reversing Valve Solenoid 2
SW1	Compressor 1 Start/Stop Switch
SW2	Compressor 2 Start/Stop Switch
TRANS	Transformer
TS1	Temp. Sensor #1, Compr. 1 Suct.
TS2	Temp. Sensor #2, Compr. 2 Suct.
TS3	Temp. Sensor #3, Compr. 1 Disch.
TS4	Temp. Sensor #4, Compr. 2 Disch.
TS5	Temp. Sensor #5, Entering Load Water (in Well)
TS6	Temp. Sensor #6, Leaving Load Water (in Well)
TS7	Temp. Sensor #7, Entering Source Water (in Well)
TS8	Temp. Sensor #8, Leaving Source Water (in Well)
USB-L	USB-L Virtual Bacview Adapter

- NOTES:
1. COMPRESSOR MOTOR THERMALLY PROTECTED INTERNALLY.
  2. ALL WIRING MUST COMPLY WITH NEC AND LOCAL CODES.
  3. 208-230V UNITS: TRANSFORMER FACTORY WIRING FOR 208V OPERATION. FOR 230V, DISCONNECT RED LEAD AT H2, AND RECONNECT AT H3.
  4. DISCONNECT SWITCH FOR UNIT TO BE PROVIDED BY OTHERS AND SHALL BE TYPE HACR CIRCUIT BREAKER OR EQUIVALENT, OR TYPE RK-5 FUSED DISCONNECT OR EQUIVALENT. (SEE DATA PLATE FOR SIZING.)

LEGEND	
	= GRD = GROUND
	= TIME DELAY RELAY
	= SWITCH
	= PRESSURE ACTUATED SW.
	= TEMP ACTUATED SWITCH
	= RELAY CONTACTS N. O.
	= RELAY CONTACTS N. C.
	= RELAY or CONTACTOR COIL
	= PILOT LIGHT
	= FUSE ELEMENT
	= CIRCUIT BREAKER
	= THERMAL ELEMENT
	= FACTORY WIRING
	= FIELD LINE VOLTAGE WIRING
	= FIELD LOW VOLTAGE WIRING

CODE	DESCRIPTION
B	BLACK
BR	BROWN
BL	BLUE
R	RED
Y	YELLOW
W	WHITE
GRY	GRAY
GR/Y	GREEN W/YEL. TR.
GR	GREEN
P	PURPLE
T	TAN
OR	ORANGE

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TMW Water to Water Heat Pump Product Family  
Optional Motorized Valves for Both Chiller & Condenser Water Flow

SIZE	File No.	Dwg. No.	REV
B	96B0152N09	96B0152N09	F
SCALE	None	DATE	04/19/2023
SHEET	3 OF 3		

### CRANKCASE HEATERS WIRING CONFIGURATION

NOTE: CAUTION, CRANKCASE HTRS ARE POWERED BY COMPR. LINE VOLTAGE.

