

General Specifications:

Heating/Cooling chassis.

Safety Compliance – The JEC/JWC is a listed product eligible to bear the CSA mark, cCSAus mark (US and Canada Safety compliance. The JEC/JWC is produced in a CSA inspected factory in Cambridge Ontario Canada.

General Construction –Complete air cooled refrigeration system with 410A refrigerant. Two low noise high static pressure dual inlet evaporator blowers tested and verified for performance. One High performance low speed prop fan with slinger ring condenser fan. Electric resistance heat (optional) uses high-mass, low temperature finned-tubular heaters. Unit is hard wired to a junction box attached to the base of the wall sleeve.

Digital Touchpad Control – The JEC/JWC Digital Control is used to control the integral air conditioner and heat source via a touchpad, or optional remote 24-volt wall mounted thermostats. Unit-mounted digital panel with touchpad temperature control and with touchpad for heating, cooling, and fan operation. Includes the following features:

- Low Ambient Lockout Control: Prevents cycling in cooling operation below 6 degrees C (43 degrees F) outdoor air temperature.
- Temperature-Limit Control: Prevents occupant from exceeding preset, setback, or setup temperature.
- Remote Control Ready: -- Detachable Molex connector with standard 7-wire lead connection to wireless or wired 24 VAC wall thermostat. Chassis can be enslaved to external control by a change of DIP-switch setting on the electronic board.

Wall sleeve

36.125"W x 26.75"H wall sleeve made of satin coat heavy gauge steel, coated with electrostatically applied, baked on urethane powder coat black paint for maximum corrosion protection.

Room Cabinet

Room grille and control door— Sloped top discharge punched satin coat steel powder coated black. Enclosure completely encloses controls.

Integrated room cabinet— integrated, powder coated 18 gauge front.

Electric heat section

Consists of high mass, low surface temperature, finned tubular type electric heater(s) with high limit cut-out.

Power air damper for outside air (optional)

A power motorized door for fresh air opens when evaporator blower is energized, and automatically closes when the evaporator is not energized.

Refrigeration System -- Direct expansion indoor coil with capillary restrictor; and rotary compressor with vibration isolation and overload protection.

Indoor and Outdoor Coils -- Seamless copper tubes mechanically expanded into aluminum.

Charge -- R410A.

Evaporator Fan-- One direct drive, dual-shaft with permanent split capacitor two-speed motor. The evaporator fan consists of two centrifugal dual-inlet blower type.

Filters -- Washable aluminum weave filter in a durable aluminum frame.

Outdoor Louver-- Architectural clear anodized aluminum

Condensate Drain -- Drain pan to direct condensate to outdoor coil for re-evaporation.

JEC Air Conditioner with Electric Resistance Heat

HARD-WIRED CONNECTION of ELECTRIC CONTROL BOX TO BUILDING POWER SUPPLY

with MOLEX CONNECTION OF BLOWER, HEATER, COOLING CHASSIS, & FRONT COVER TOUCHPAD

Model	Voltage	Hz	Min. Circuit Amps	MOP* Fuse Amps	Electrical Plug (NEMA)	Cooling					Resistance Heat			Indoor CFM HIGH*	Indoor CFM LOW*	Vent CFM	Net Wt. lbs.	Ship Wt. lbs.
						BTU/Hr.	EER	Amps	S/T	Pts./hr.	BTU/Hr.	kW	Amps					
JEC07N00E0P	208	60	tbd	15	hard-wired	7000	10.4	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC07N25E0P	"	"	"	20	hard-wired	"	"	"	"	"	tbd	2.5	tbd	"	"	"	"	"
JEC07N33E0P	"	"	"	25	hard-wired	"	"	"	"	"	"	3.3	"	"	"	"	"	"
JEC09N00E0P	"	"	tbd	15	hard-wired	8900	9	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC09N25E0P	"	"	"	20	hard-wired	"	"	"	"	"	tbd	2.5	tbd	"	"	"	"	"
JEC09N33E0P	"	"	"	25	hard-wired	"	"	"	"	"	"	3.3	"	"	"	"	"	"
JEC12N00E0P	"	"	tbd	15	hard-wired	11700	8.6	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC12N25E0P	"	"	"	20	hard-wired	"	"	"	"	"	tbd	2.5	tbd	"	"	"	"	"
JEC12N33E0P	"	"	"	25	hard-wired	"	"	"	"	"	"	3.3	"	"	"	"	"	"
JEC07G00E0P	230	"	tbd	15	hard-wired	7000	10.4	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC07G24E0P	"	"	"	15	hard-wired	"	"	"	"	"	tbd	2.4	tbd	"	"	"	"	"
JEC07G34E0P	"	"	"	20	hard-wired	"	"	"	"	"	"	3.4	"	"	"	"	"	"
JEC09G00E0P	"	"	tbd	15	hard-wired	8900	9	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC09G24E0P	"	"	"	15	hard-wired	"	"	"	"	"	tbd	2.4	tbd	"	"	"	"	"
JEC09G34E0P	"	"	"	20	hard-wired	"	"	"	"	"	"	3.4	"	"	"	"	"	"
JEC12G00E0P	"	"	tbd	15	hard-wired	11700	8.6	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC12G24E0P	"	"	"	15	hard-wired	"	"	"	"	"	tbd	2.4	tbd	"	"	"	"	"
JEC12G34E0P	"	"	"	20	hard-wired	"	"	"	"	"	"	3.4	"	"	"	"	"	"
JEC07R00E0P	277	"	tbd	15	hard-wired	7000	10.4	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC07R25E0P	"	"	"	15	hard-wired	"	"	"	"	"	tbd	2.5	tbd	"	"	"	"	"
JEC07R33E0P	"	"	"	20	hard-wired	"	"	"	"	"	"	3.3	"	"	"	"	"	"
JEC09R00E0P	"	"	tbd	15	hard-wired	8900	9	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC09R25E0P	"	"	"	15	hard-wired	"	"	"	"	"	tbd	2.5	tbd	"	"	"	"	"
JEC09R33E0P	"	"	"	20	hard-wired	"	"	"	"	"	"	3.3	"	"	"	"	"	"
JEC12R00E0P	"	"	tbd	15	hard-wired	11700	8.6	tbd	tbd	tbd	0	0.0	0	320	270	35	tbd	tbd
JEC12R25E0P	"	"	"	15	hard-wired	"	"	"	"	"	tbd	2.5	tbd	"	"	"	"	"
JEC12R33E0P	"	"	"	20	hard-wired	"	"	"	"	"	"	3.3	"	"	"	"	"	"

*Time Delay Fuse or HCAR Circuit Breaker ---- *Dry Coil.

Based on ASHRAE and AHRI test conditions of 95 degrees F DB / 75 degrees F WB outside, 80 degrees F DB / 67 degrees F WB inside.

Electric Resistance Heat Watts x 3.41 = Btuh. Electric Heating Watts and Amps include Indoor Fan Motor.

Cooling Full Load Amps includes Compressor, IDF and ODF FLA's.

Electric Heat MCA, Time Delay Fuse and NEMA Receptacle data are based on 240V and 277V.

JWC Air Conditioner for use with Hydronic Heat

HARD-WIRED CONNECTION of ELECTRIC CONTROL BOX TO BUILDING POWER SUPPLY with

MOLEX CONNECTION OF BLOWER, COOLING CHASSIS & FRONT COVER TOUCHPAD

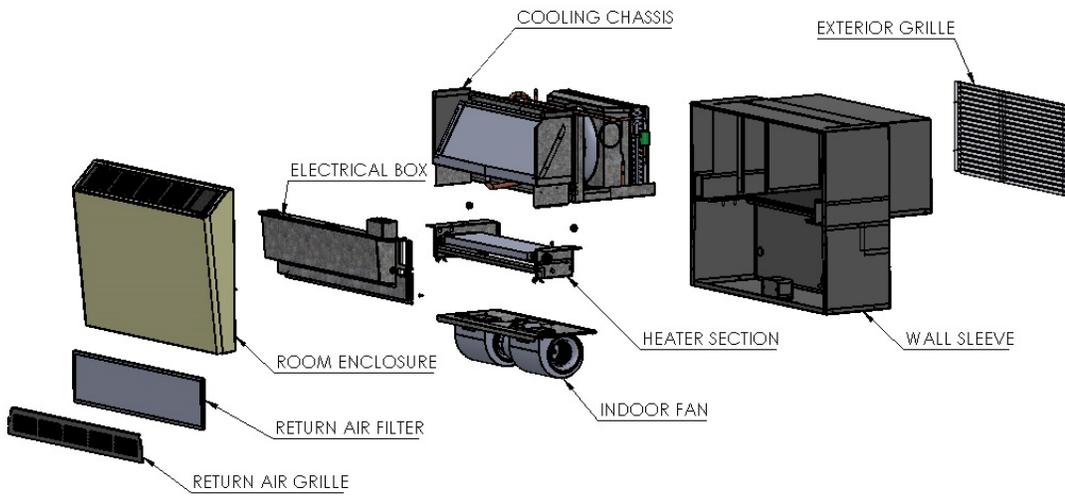
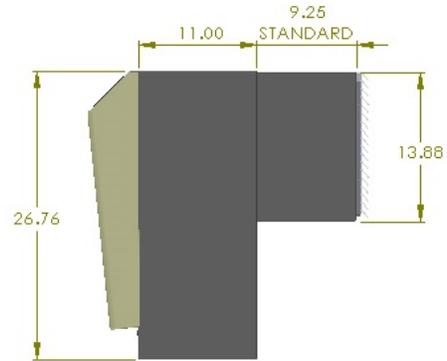
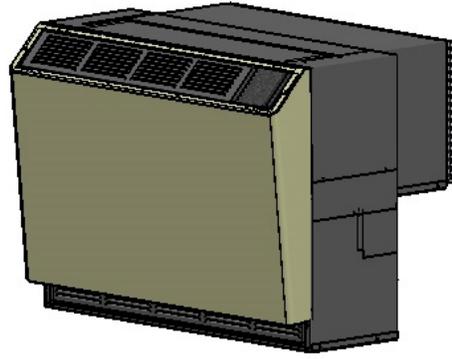
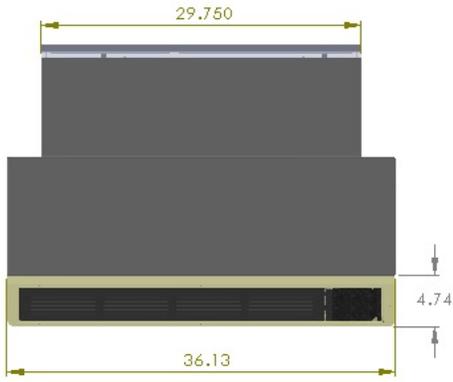
Model No.	Voltage	Hz	Min. Circuit Amps	MOP* Fuse Amps	Cooling					Indoor SCFM		Net Wt. lbs.
					BTU / Hr	EER	AMPS	S/T	Pts./hr.	High*	Low*	
JWC07N00E0P	208	60	4.2	15	6400	9.6	3.2	.92	1.0	315	265	128
JWC09N00E0P	"	"	5.7	"	8400	9.1	4.6	.76	2.1	"	"	"
JWC12N00E0P	"	"	7.6	"	11200	8.5	6.7	.70	3.1	"	"	"
JWC07G00E0P	230	"	4.2	"	6400	9.6	3.0	.92	1.0	325	270	"
JWC09G00E0P	"	"	5.7	"	8400	9.1	4.4	.76	2.1	"	"	"
JWC12G00E0P	"	"	7.6	"	11200	8.5	6.4	.70	3.1	"	"	"
JWC07R00E0P	277	"	4.2	"	6400	9.6	2.7	.92	0.7	320	265	"
JWC09R00E0P	"	"	5.7	"	8400	9.1	3.9	.76	1.9	"	"	"
JWC12R00E0P	"	"	7.6	"	11200	8.5	5.6	.70	2.8	"	"	"

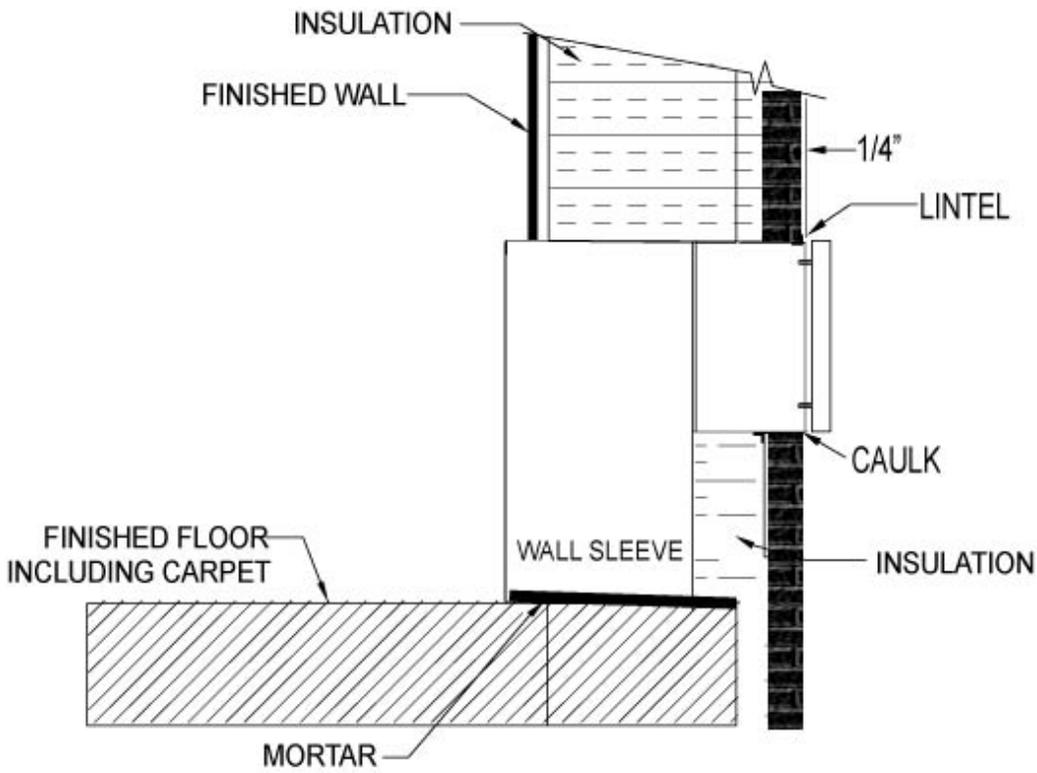
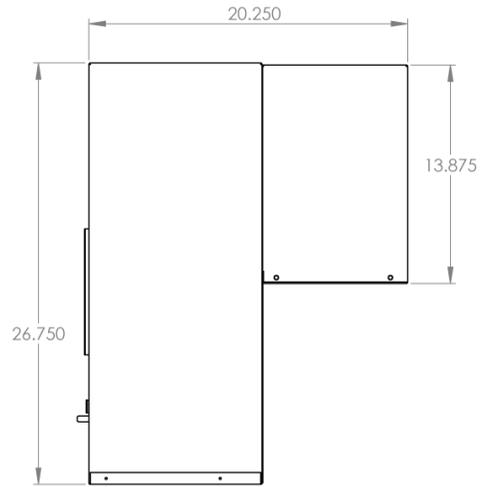
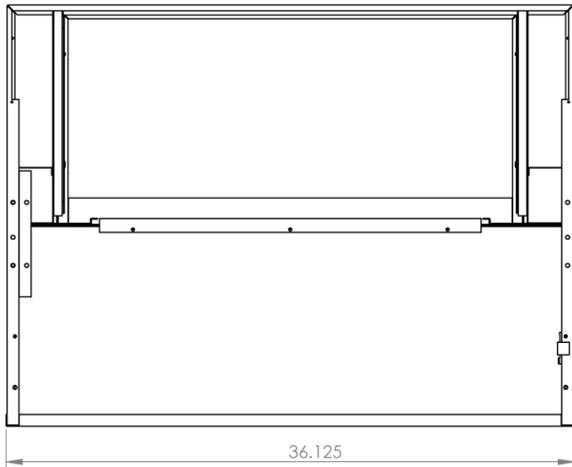
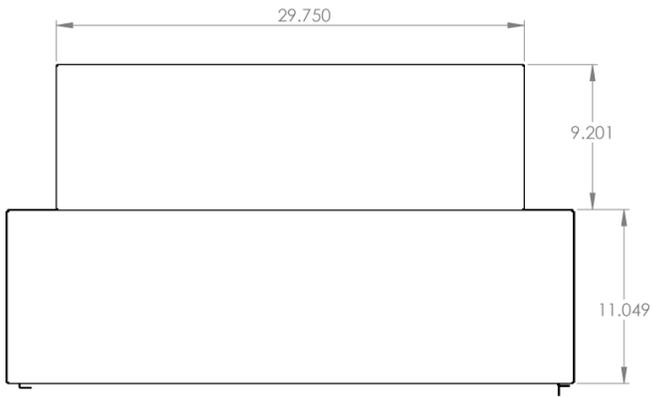
*Time Delay Fuse or HCAR Circuit Breaker - *Dry Coil

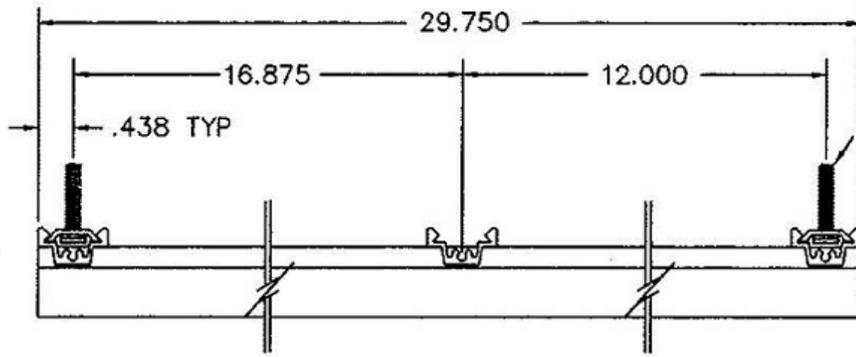
Based on ASHRAE and AHRI test conditions of 95°F DB / 75°F WB outside, 80°F DB / 67°F WB inside.

Cooling Full Load Amps includes Compressor, IDF and ODF FLA's.

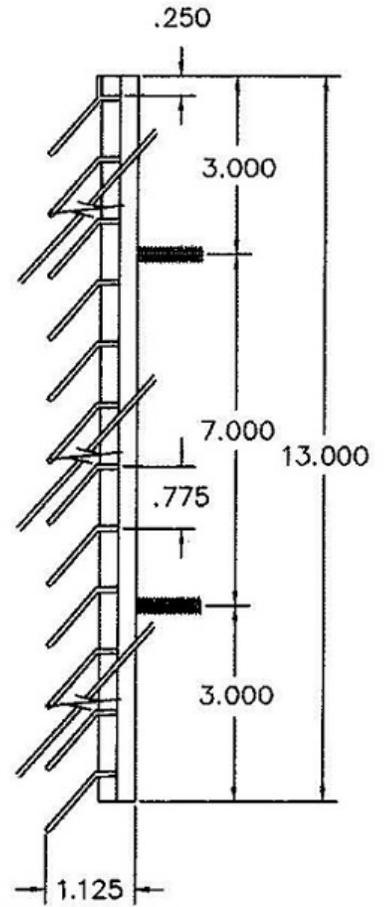
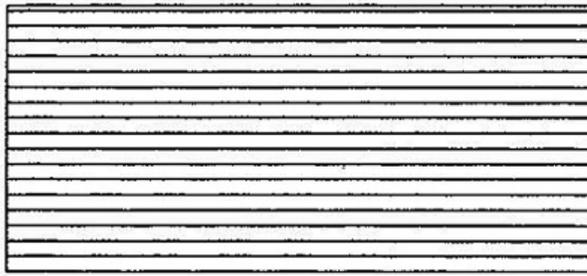
Unit Performance Ratings -- Factory tested according to AHRI 310/380/CSA C744, "Packaged Terminal Air-Conditioners and Heat Pumps."



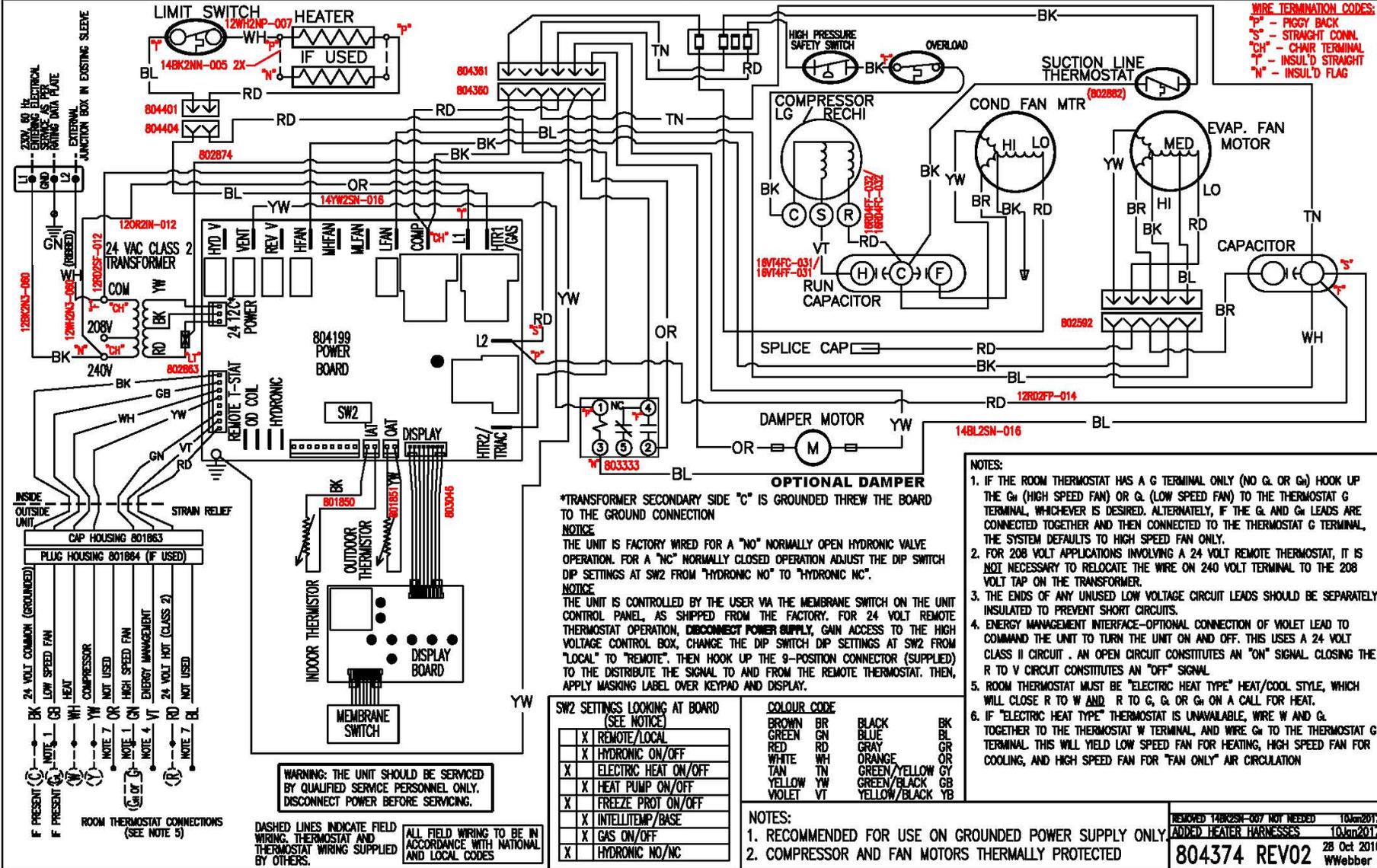




#10-24 x 1" ALL
THREAD STUD (TYP.)



CONNECTION DIAGRAM DANGER: ELECTRICAL SHOCK HAZARD, DISCONNECT POWER BEFORE SERVICING JEC ELECTRONIC BASE CONTROL, ELECTRIC HEAT, POWER DAMPER 230V 60 Hz, 7, 9 & 12K BTU



WIRE TERMINATION CODES:
 P - PIGGY BACK
 S - STRAIGHT CONN.
 CH - CHAIR TERMINAL
 F - INSUL'D STRAIGHT
 N - INSUL'D FLAG

*TRANSFORMER SECONDARY SIDE "C" IS GROUNDED THRU THE BOARD TO THE GROUND CONNECTION
NOTICE
 THE UNIT IS FACTORY WIRED FOR A "NO" NORMALLY OPEN HYDRONIC VALVE OPERATION. FOR A "NC" NORMALLY CLOSED OPERATION ADJUST THE DIP SWITCH DIP SETTINGS AT SW2 FROM "HYDRONIC NO" TO "HYDRONIC NC".
NOTICE
 THE UNIT IS CONTROLLED BY THE USER VIA THE MEMBRANE SWITCH ON THE UNIT CONTROL PANEL, AS SHIPPED FROM THE FACTORY. FOR 24 VOLT REMOTE THERMOSTAT OPERATION, DISCONNECT POWER SUPPLY, GAIN ACCESS TO THE HIGH VOLTAGE CONTROL BOX, CHANGE THE DIP SWITCH DIP SETTINGS AT SW2 FROM "LOCAL" TO "REMOTE". THEN HOOK UP THE 9-POSITION CONNECTOR (SUPPLIED) TO THE DISTRIBUTOR THE SIGNAL TO AND FROM THE REMOTE THERMOSTAT. THEN, APPLY MASKING LABEL OVER KEYPAD AND DISPLAY.

- NOTES:**
1. IF THE ROOM THERMOSTAT HAS A G TERMINAL ONLY (NO G_H OR G_L) HOOK UP THE G_H (HIGH SPEED FAN) OR G_L (LOW SPEED FAN) TO THE THERMOSTAT G TERMINAL, WHICHEVER IS DESIRED. ALTERNATELY, IF THE G_H AND G_L LEADS ARE CONNECTED TOGETHER AND THEN CONNECTED TO THE THERMOSTAT G TERMINAL, THE SYSTEM DEFAULTS TO HIGH SPEED FAN ONLY.
 2. FOR 208 VOLT APPLICATIONS INVOLVING A 24 VOLT REMOTE THERMOSTAT, IT IS NOT NECESSARY TO RELOCATE THE WIRE ON 240 VOLT TERMINAL TO THE 208 VOLT TAP ON THE TRANSFORMER.
 3. THE ENDS OF ANY UNUSED LOW VOLTAGE CIRCUIT LEADS SHOULD BE SEPARATELY INSULATED TO PREVENT SHORT CIRCUITS.
 4. ENERGY MANAGEMENT INTERFACE—OPTIONAL CONNECTION OF VIOLET LEAD TO COMMAND THE UNIT TO TURN THE UNIT ON AND OFF. THIS USES A 24 VOLT CLASS II CIRCUIT. AN OPEN CIRCUIT CONSTITUTES AN "ON" SIGNAL. CLOSING THE R TO V CIRCUIT CONSTITUTES AN "OFF" SIGNAL.
 5. ROOM THERMOSTAT MUST BE "ELECTRIC HEAT TYPE" HEAT/COOL STYLE, WHICH WILL CLOSE R TO W AND R TO G_H OR G_L ON A CALL FOR HEAT.
 6. IF "ELECTRIC HEAT TYPE" THERMOSTAT IS UNAVAILABLE, WIRE W AND G_L TOGETHER TO THE THERMOSTAT W TERMINAL, AND WIRE G_H TO THE THERMOSTAT G TERMINAL. THIS WILL YIELD LOW SPEED FAN FOR HEATING, HIGH SPEED FAN FOR COOLING, AND HIGH SPEED FAN FOR "FAN ONLY" AIR CIRCULATION.

WARNING: THE UNIT SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL ONLY. DISCONNECT POWER BEFORE SERVICING.

DASHED LINES INDICATE FIELD WIRING. THERMOSTAT AND THERMOSTAT WIRING SUPPLIED BY OTHERS.
 ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

SW2 SETTINGS LOOKING AT BOARD (SEE NOTICE)

X	REMOTE/LOCAL
X	HYDRONIC ON/OFF
X	ELECTRIC HEAT ON/OFF
X	HEAT PUMP ON/OFF
X	FREEZE PROT ON/OFF
X	INTELLTEMP/BASE
X	GAS ON/OFF
X	HYDRONIC NO/NC

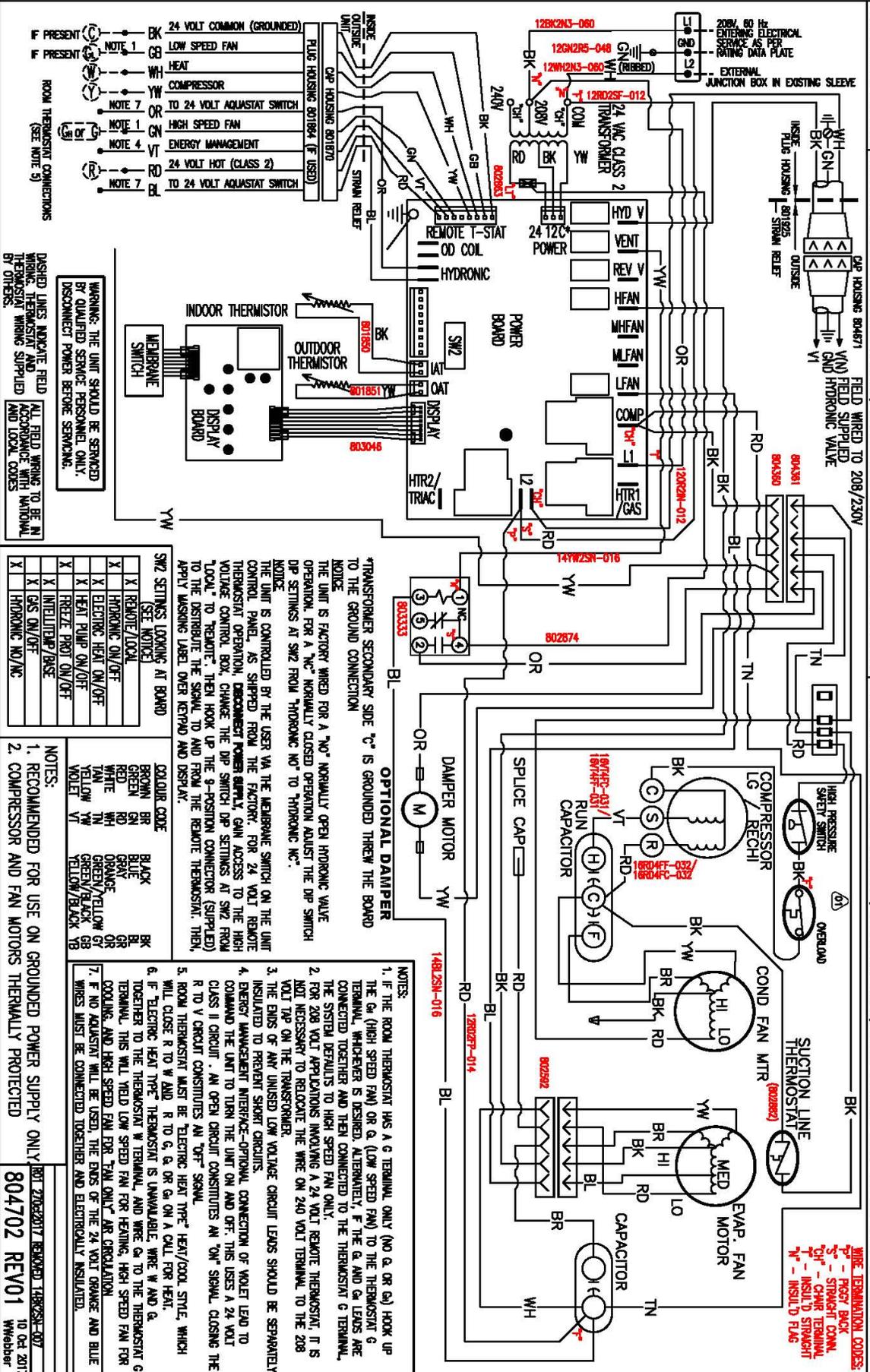
COLOR CODE (SEE NOTICE)

BROWN	BR	BLACK	BK
GREEN	GN	BLUE	BL
RED	RD	GRAY	GR
WHITE	WH	ORANGE	OR
TAN	TN	GREEN/YELLOW	GY
YELLOW	YW	GREEN/BLACK	GB
VIOLET	VT	YELLOW/BLACK	YB

- NOTES:**
1. RECOMMENDED FOR USE ON GROUNDED POWER SUPPLY ONLY
 2. COMPRESSOR AND FAN MOTORS THERMALLY PROTECTED

REMOVED 148K2SN-007 NOT NEEDED 10Jan2017
 ADDED HEATER HARNESSES 10Jan2017
 28 Oct 2016
804374 REV02 WWebber

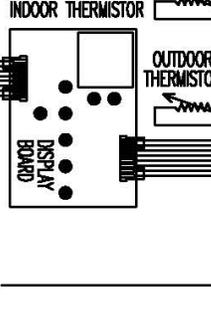
CONNECTION DIAGRAM DANGER: ELECTRICAL SHOCK HAZARD, DISCONNECT POWER BEFORE SERVICING JWC ELECTRONIC BASE CONTROL, HYDRONIC HEAT, POWER DAMPER 208V 60 Hz, 7, 9 & 12K BTU



WIRE TERMINATION CODES:
 R - RED/BK
 G - GREEN/BL
 W - WHITE/WH
 B - BLUE/BL
 Y - YELLOW/YL
 V - VIOLET/VT
 T - TAN/NT
 N - NEUTRAL/WH
 G - GROUND/GR

NOTES:
 1. IF THE ROOM THERMOSTAT HAS A G TERMINAL ONLY (NO G OR G2) HOOK UP THE G (HIGH SPEED FAN) OR G2 (LOW SPEED FAN) TO THE THERMOSTAT G TERMINAL, WHICHEVER IS DESIRED. ALTERNATELY, IF THE G AND G2 LEADS ARE CONNECTED TOGETHER AND THEN CONNECTED TO THE THERMOSTAT G TERMINAL, THE SYSTEM DEFAULTS TO HIGH SPEED FAN ONLY.
 2. FOR 208 VOLT APPLICATIONS INVOLVING A 24 VOLT REMOTE THERMOSTAT, IT IS NOT NECESSARY TO RELOCATE THE WIRE ON 240 VOLT TERMINAL TO THE 208 VOLT TAP ON THE TRANSFORMER.
 3. THE ENDS OF ANY UNUSED LOW VOLTAGE CIRCUIT LEADS SHOULD BE SEPARATELY INSULATED TO PREVENT SHORT CIRCUITS.
 4. ENERGY MANAGEMENT INTERFACE-OPTIONAL CONNECTION OF VOLET LEAD TO COMMAND THE UNIT TO TURN THE UNIT ON AND OFF. THIS USES A 24 VOLT CLASS II CIRCUIT. AN OPEN CIRCUIT CONSTITUTES AN "ON" SIGNAL. CLOSING THE R TO V CIRCUIT CONSTITUTES AN "OFF" SIGNAL.
 5. ROOM THERMOSTAT MUST BE "ELECTRIC HEAT TYPE" HEAT/COOL STATE, WHICH WILL CLOSE R TO W AND R TO G, OR G, OR G2 ON A CALL FOR HEAT.
 6. IF "ELECTRIC HEAT" THERMOSTAT IS UNAVAILABLE, WIRE W AND G2 TOGETHER TO THE THERMOSTAT W TERMINAL, AND WIRE G2 TO THE THERMOSTAT G TERMINAL. THIS WILL YIELD LOW SPEED FAN FOR HEATING, HIGH SPEED FAN FOR COOLING, AND HIGH SPEED FAN FOR "TAN ONLY" AIR CIRCULATION.
 7. FAN AQUASTAT WILL BE USED. THE ENDS OF THE 24 VOLT ORANGE AND BLUE WIRES MUST BE CONNECTED TOGETHER AND ELECTRICALLY INSULATED.

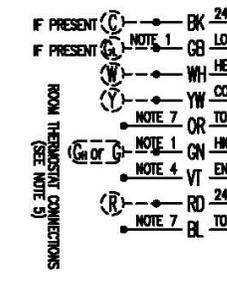
***TRANSFORMER SECONDARY SIDE "C" IS GROUND THROUGH THE BOARD TO THE GROUND CONNECTION**
NOTICE:
 THE UNIT IS FACTORY WIRED FOR A "NO" NORMALLY OPEN HYDRONIC VALVE OPERATION. FOR A "NC" NORMALLY CLOSED OPERATION ADJUST THE DP SWITCH DP SETTINGS AT SW2 FROM "HYDRONIC NO" TO "HYDRONIC NC".
NOTICE:
 THE UNIT IS CONTROLLED BY THE USER VIA THE MEMBRANE SWITCH ON THE UNIT CONTROL PANEL, AS SHIPPED FROM THE FACTORY. FOR 24 VOLT REMOTE THERMOSTAT OPERATION, DISCONNECT POWER SUPPLY GAIN ACCESS TO THE HIGH VOLTAGE CONTROL BOX, CHANGE THE DP SWITCH DP SETTINGS AT SW2 FROM "LOCAL" TO "REMOTE", THEN HOOK UP THE 9-POSITION CONNECTOR (SUPPLIED) TO THE DISTRIBUTOR, THEN HOOK UP AND FROM THE REMOTE THERMOSTAT, THEN, APPLY MISSING LABEL OVER KEYPAD AND DISPLAY.



SW2 SETTINGS BOARD AT BOARD (SEE NOTICE)

X	REMO/LOCAL
X	HYDRONIC ON/OFF
X	ELECTRIC HEAT ON/OFF
X	HEAT PUMP ON/OFF
X	FREZE PROT ON/OFF
X	INTELLIDR/BISE
X	GS ON/OFF
X	HYDRONIC NO/NC

NOTES:
 1. RECOMMENDED FOR USE ON GROUNDED POWER SUPPLY ONLY
 2. COMPRESSOR AND FAN MOTORS THERMALLY PROTECTED



ROOM THERMOSTAT CONNECTIONS (SEE NOTE 5)

DANGER: ELECTRICAL SHOCK HAZARD, DISCONNECT POWER BEFORE SERVICING

WARNING: THE UNIT SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL ONLY. DISCONNECT POWER BEFORE SERVICING.

ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.

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 804702 REV01
 10 Oct 2017
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