Certified Drawing --- Type: NAEC --- 27 JAN2020 --- Applied Comfort Products Carver Inc. --- www.ptacs.com ---
1.877.227.7822 -- Applied Comfort Packaged Terminal Air Conditioner with Electric Resistance Heat -- 16" x 42" Model NAEC SLOPE Top

General Specifications

Heating/Cooling Chassis.

- **Safety Compliance** -- The NAEC is a listed product eligible to bear the CSA Mark, cCSAus Mark (US and Canada Safety Compliance). The NEAC is produced in a CSA inspected factory in Cambridge, Ontario, Canada.
- **3rd Party Energy Performance Verification** -- The Cooling-Capacity and Energy Performance Verification Testing for the N Series of chassis is conducted by Intertek Labs – Report No.: 101100016CRT-001 and Report No.: 10081616CRT-001 are available upon request – these tests cover the full range of cooling outputs available for the N Series. Note that the performance verification testing by ETL labs is conducted with N chassis with hydronic coils in place to show the highest static pressure installation (most demanding performance conditions), thus the non-ducted and non-hydronic chassis (such as the NAEC) will have higher EER and btuh than stated in the Verification Reports. The Cooling-Capacity Tests were conducted in accordance with ANSI/ASHRAE Standard 16-1983 (RA99), ANSI/ASHRAE Standard and ISO 5151 was employed for the tests.
- **General Construction** -- Complete air cooled refrigeration system with R-410A refrigerant. Two low noise high-static pressure dual-inlet evaporator blowers tested and verified for performance with ducting and/or hydronic coils in place. One dual-inlet condensate blower (powder-coated metal housing, galvanized metal wheel) with efficient dual-action condensate removal system. Electric resistance heat (optional) uses high-mass, low-temperature tube-in-coil heaters. Power cord exists from under right side.

Digital Touchpad Control

- The NFE Digital Control is used to control the integral air conditioner and heat source via a touchpad, or optional remote 24-volt wall mounted thermostats.
- Chassis comes with standard 7 wire connection harness for thermostats; control by external thermostat is switched using dip switches.

Wall Sleeve

- Industry standard 16" x 42", made of galvanized, phosphatized, heavy-gauge steel. Coated with electrostatically applied, baked on, industry standard beige urethane powder paint for maximum corrosion protection.

Room Cabinet

- **Room Grille & Control Door** -- Sloped top discharge with one piece extruded machined aluminum grille powder-coated light grey. Enclosure completely encloses controls.
- **Integrated Room Cabinet** -- Integrated powder-coated 18 ga. metal front panel is removable without use of tools. Color is industry-standard beige.

Electric heat Section

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

Power Cord

- LCDI power cord is supplied with 115v and 208/230V chassis, and standard non-LCDI with 277V chassis.

Louvers

- Architectural type with silver powder-coating baked on. Optional stamped powder-coated aluminum grilles.

Power Air Damper for Fresh Air (optional)

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

4" or 6" Skirt With Outlet (optional)

- Skirt 4" high or 6" high, with adjustable supporting feet, with electrical power outlet, mounts to bottom of sleeve. Color is industry-standard beige.

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Performance Data – 3rd Party Lab Verified by Intertek Labs

NAEC Air Conditioner with Electric Resistance Heat -- ANGLED-TOP Configuration

CORD-CONNECTED. LCDI full-length Cord for connection to remote receptacle.

Model	Voltage	Hz	Min. Circuit Amps	MOP* Fuse Amps	Electrical Plug (NEMA)	Cooling					Resistance Heat			Indoor CFM HIGH°	Indoor CFM LOW°	Net Wt. lbs.
						BTU/Hr.	EER	Amps	S/T	Pts./hr.	BTU/Hr.	kW	Amps			
NAEC07L00E6	115	60	8.3	15	#5-15P	7300	11.8	6.4	0.83	1.1	N/A	N/A	N/A	325	280	167
NAEC09L00E6	"	"	11.9	"	"	9600	11.3	8.4	0.79	1.9	"	"	"	380	335	"
NAEC12L00E7	"	"	16.3	20	#5-20P	12600	10.6	12.0	0.71	3.3	"	"	"	"	"	"
NAEC07K00E6	230 - 208	"	4.1	15	#6-15P	7300	11.8	3.2/3.4	0.83	1.1	"	"	"	340/315	305/265	"
NAEC07K16E6	"	"	9.2	"	"	"	"	"	"	"	5700/4700	1.6/1.3	7.4/6.7	"	"	"
NAEC07K25E6	"	"	14.2	"	"	"	"	"	"	"	8900/7300	2.5/2.1	11.4/10.4	"	"	"
NAEC07K34E7	"	"	19.1	20	#6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
NAEC09K00E6	"	"	5.7	15	#6-15P	9600	11.3	4.2/4.4	0.79	.1.9	N/A	N/A	N/A	390/375	345/315	"
NAEC09K16E6	"	"	9.2	"	"	"	"	"	"	"	5700/4700	1.6/1.3	7.4/6.7	"	"	"
NAEC09K25E6	"	"	14.2	"	"	"	"	"	"	"	8900/7300	2.5/2.1	11.4/10.4	"	"	"
NAEC09K34E7	"	"	19.1	20	#6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
NAEC09K50E8	"	"	27.9	30	#6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"
NAEC12K00E6	"	"	8.1	15	#6-15P	12600	10.6	6.0/6.2	0.71	3.3	N/A	N/A	N/A	"	"	"
NAEC12K16E6	"	"	9.2	"	"	"	"	"	"	"	5700/4700	1.6/1.3	7.4/6.7	"	"	"
NAEC12K25E6	"	"	14.2	"	"	"	"	"	"	"	8900/7300	2.5/2.1	11.4/10.4	"	"	"
NAEC12K34E7	"	"	19.1	20	#6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
NAEC12K50E8	"	"	27.9	30	#6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"
NAEC15K00E6	"	"	9.9	15	#6-15P	14800	9.8	7.5/7.7	0.67	4.4	N/A	N/A	N/A	"	"	"
NAEC15K16E6	"	"	"	"	"	"	"	"	"	"	5700/4700	1.6/1.3	7.4/6.7	"	"	"
NAEC15K25E6	"	"	14.2	"	"	"	"	"	"	"	8900/7300	2.5/2.1	11.4/10.4	"	"	"
NAEC15K34E7	"	"	19.1	20	#6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
NAEC15K50E8	"	"	27.9	30	#6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"
NAEC17K00E6	"	"	12.2	15	#6-15P	16100	8.4	9.2/9.4	0.66	5.0	N/A	N/A	N/A	435/425	395/375	"
NAEC17K16E6	"	"	"	"	"	"	"	"	"	"	5700/4700	1.6/1.3	7.4/6.7	"	"	"
NAEC17K25E6	"	"	14.3	"	"	"	"	"	"	"	8900/7300	2.5/2.1	11.4/10.4	"	"	"
NAEC17K34E7	"	"	19.2	20	#6-20P	"	"	"	"	"	12000/9900	3.4/2.8	15.3/14.0	"	"	"
NAEC17K50E8	"	"	28.0	30	#6-30P	"	"	"	"	"	17400/14300	5.0/4.1	22.3/20.3	"	"	"

PERMANENTLY CONNECTED. SUB-BASE Connected. Non-LCDI cord plugs into hard-wired protected receptacle in Sub-base.

Model	Voltage	Hz	Min. Circuit Amps	MOP* Fuse Amps	Electrical Plug (NEMA)	Cooling					Resistance Heat			Indoor CFM HIGH°	Indoor CFM LOW°	Net Wt. lbs.
						BTU/Hr.	EER	Amps	S/T	Pts./hr.	BTU/Hr.	kW	Amps			
NAEC07R00E2	277	"	3.7	15	#7-20P	7300	11.8	3.0	0.90	0.7	N/A	N/A	N/A	380	335	167
NAEC07R20E2	"	"	9.5	"	"	"	"	"	"	"	7200	2.0	7.6	"	"	"
NAEC07R30E2	"	"	14.0	"	"	"	"	"	"	"	10600	3.0	11.2	"	"	"
NAEC07R40E2	"	"	18.5	20	"	"	"	"	"	"	14000	4.0	14.8	"	"	"
NAEC09R00E2	"	"	5.4	15	"	9600	11.3	4.0	0.79	1.9	N/A	N/A	N/A	"	"	"
NAEC09R20E2	"	"	9.5	"	"	"	"	"	"	"	7200	2.0	7.6	"	"	"
NAEC09R30E2	"	"	14.0	"	"	"	"	"	"	"	10600	3.0	11.2	"	"	"
NAEC09R40E2	"	"	18.5	20	"	"	"	"	"	"	14000	4.0	14.8	"	"	"
NAEC12R00E2	"	"	7.2	15	"	12600	10.6	5.3	0.71	3.3	N/A	N/A	N/A	"	"	"
NAEC12R20E2	"	"	9.5	"	"	"	"	"	"	"	7200	2.0	7.6	"	"	"
NAEC12R30E2	"	"	14.0	"	"	"	"	"	"	"	10600	3.0	11.2	"	"	"
NAEC12R40E2	"	"	18.5	20	"	"	"	"	"	"	14000	4.0	14.8	"	"	"
NAEC15R00E2	"	"	8.8	15	"	14800	9.8	6.6	0.67	4.4	N/A	N/A	N/A	"	"	"
NAEC15R20E2	"	"	9.5	"	"	"	"	"	"	"	7200	2.0	7.6	"	"	"
NAEC15R30E2	"	"	14	"	"	"	"	"	"	"	10600	3.0	11.2	"	"	"
NAEC15R40E2	"	"	18.5	20	"	"	"	"	"	"	14000	4.0	14.8	"	"	"
NAEC17R00E2	"	"	10.4	15	"	16100	8.4	8.1	0.66	5.0	N/A	N/A	N/A	425	395	"
NAEC17R20E2	"	"	"	"	"	"	"	"	"	"	7200	2.0	7.6	"	"	"
NAEC17R30E2	"	"	14.0	"	"	"	"	"	"	"	10600	3.0	11.2	"	"	"
NAEC17R40E2	"	"	18.5	20	"	"	"	"	"	"	14000	4.0	14.8	"	"	"

*Time Delay Fuse or HACR Circuit Breaker ---- °Dry Coil ---- 277v models are permanently connected using 20amp non-LCDI cords.

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 Heating Watts and Amps include Indoor Fan Motor.

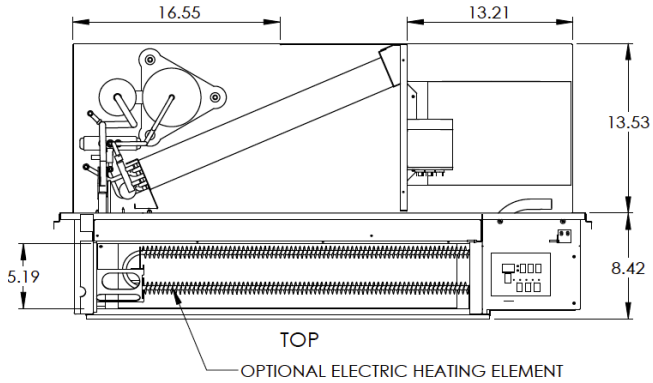
Cooling Full Load Amps includes Compressor, IDF and ODF FLA's.

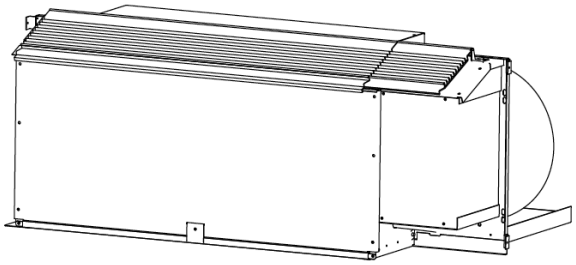
Electric Heat MCA, Time Delay Fuse and NEMA Receptacle data are based on 230V and 277V.

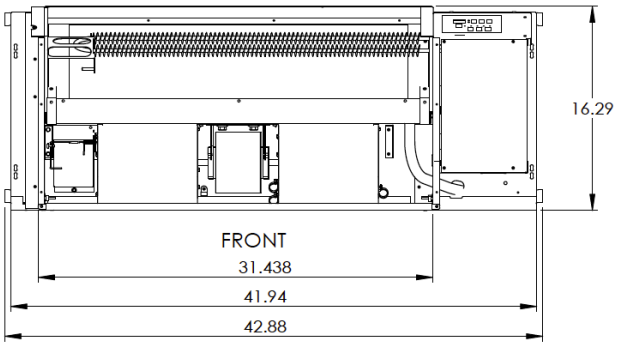
Note: For 208V installations, a 25Amp Line Fuse is acceptable.

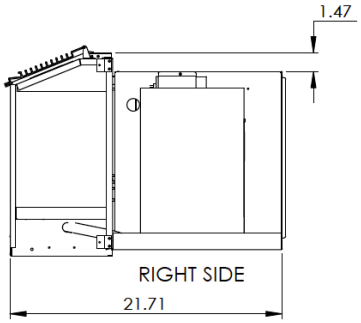
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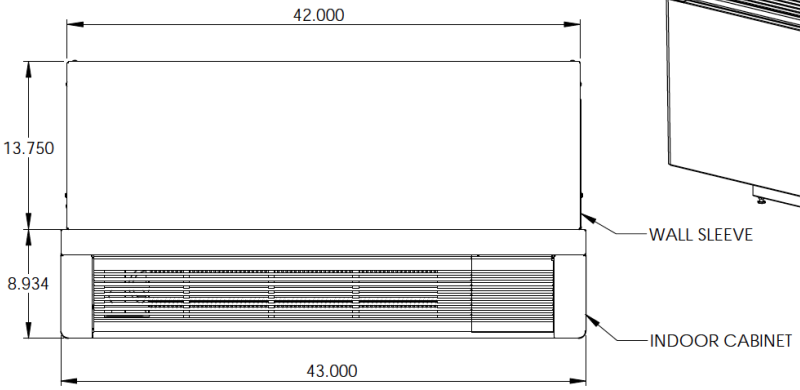
Dimensional Data

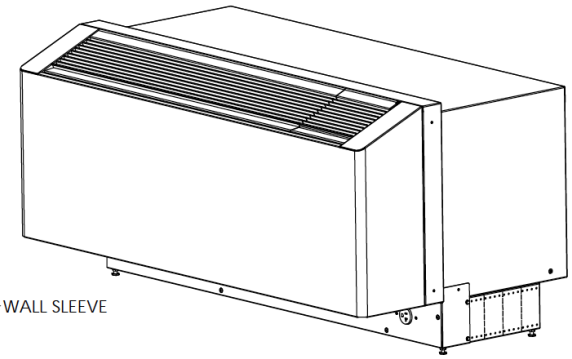


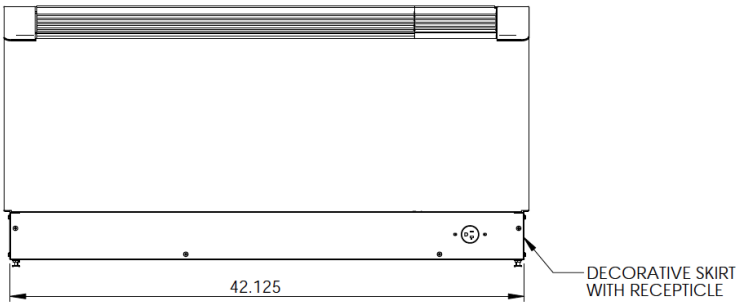


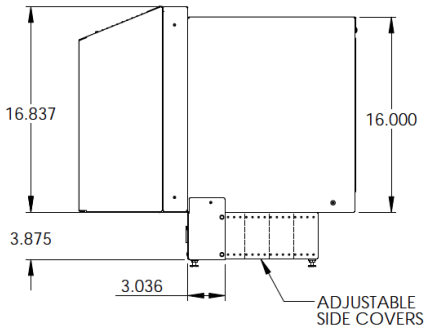






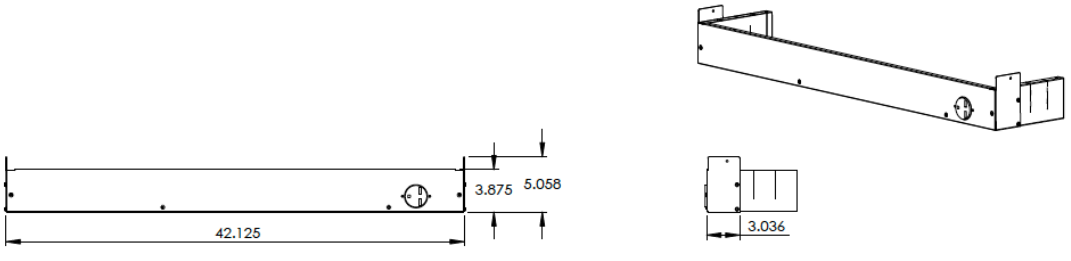


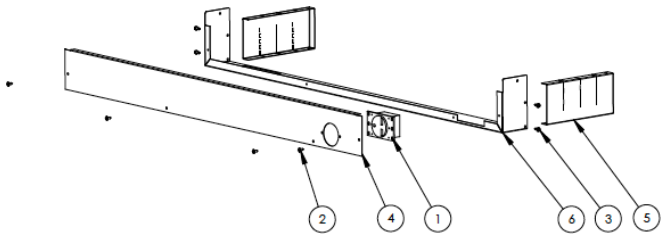




 Applied Comfort Packaged Terminal Air Conditioner with Electric Resistance Heat -- 16" x 42" Model NAEC SLOPE Top

Dimensions – Optional Decorative Skirt with Receptacle

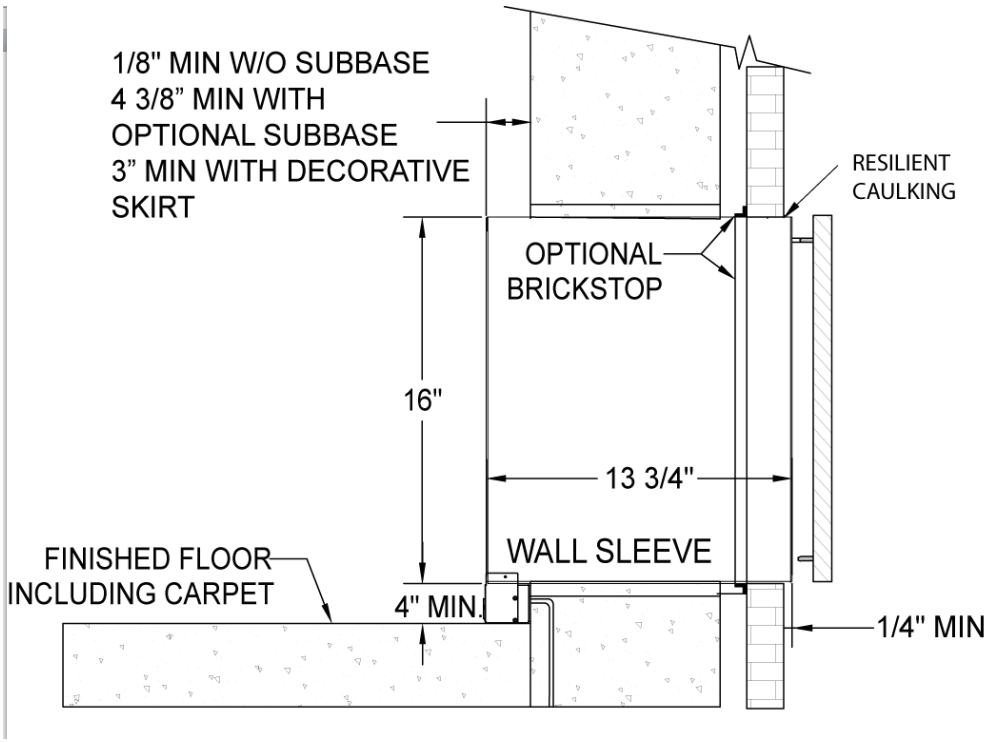




ITEM NO.	PART NUMBER	QTY.
1	RECEPTICAL	1
2	85589	4
3	801677	4
4	803508	1
5	803509	2
6	803507	1

Dimensions – Wall Profile

NOTE: Sleeve must be installed a minimum of 4" off the floor.



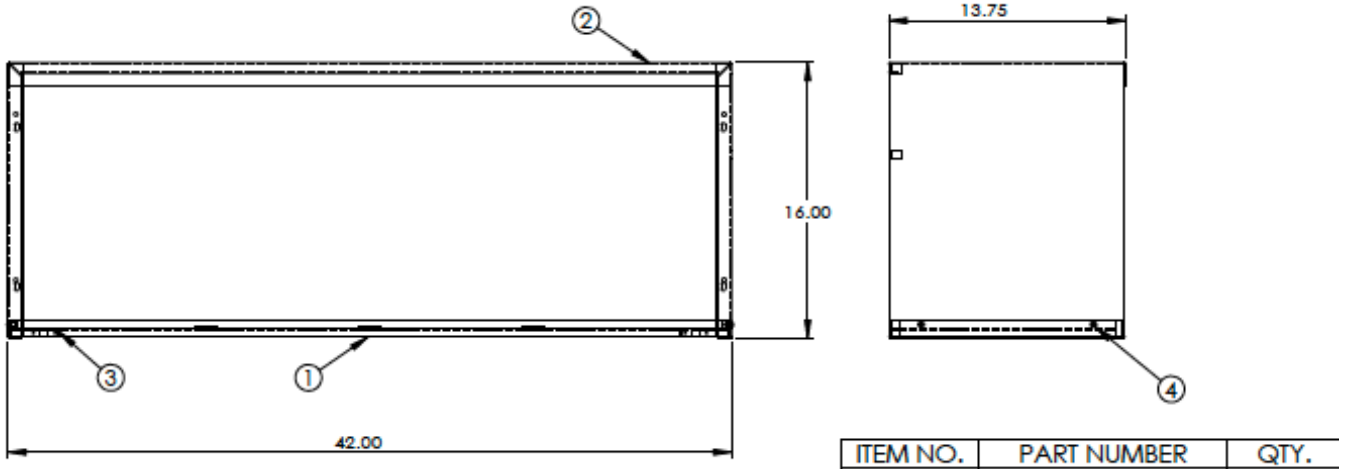
Dimensions – Chassis in Wall Sleeve with Cabinet

NOTE: Sleeve must be installed a minimum of 4" off the floor.

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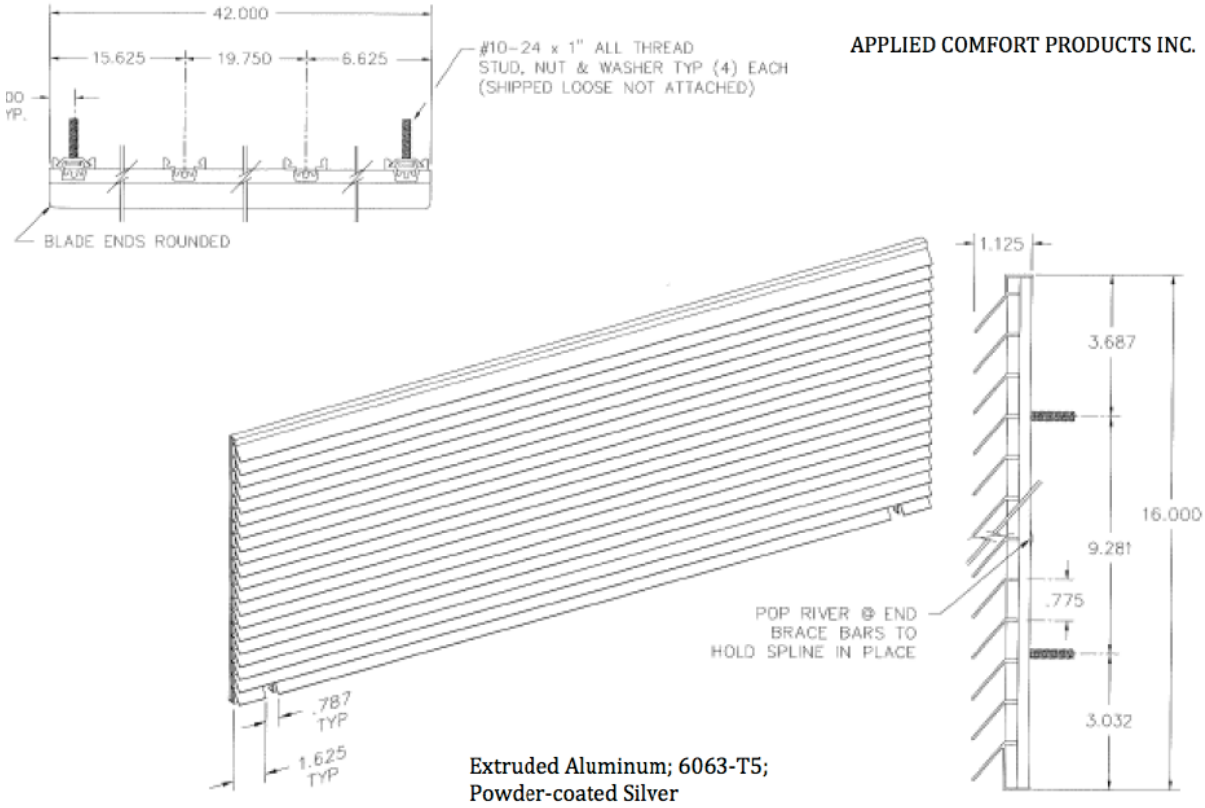
Dimensions – Sleeve

NOTE: Sleeve must be installed a minimum of 4" off the floor.



ITEM NO.	PART NUMBER	QTY.
1	802820	1
2	802822	1
3	802821	2
4	85589 SM SCREW	4

Dimensions – Architectural Grille

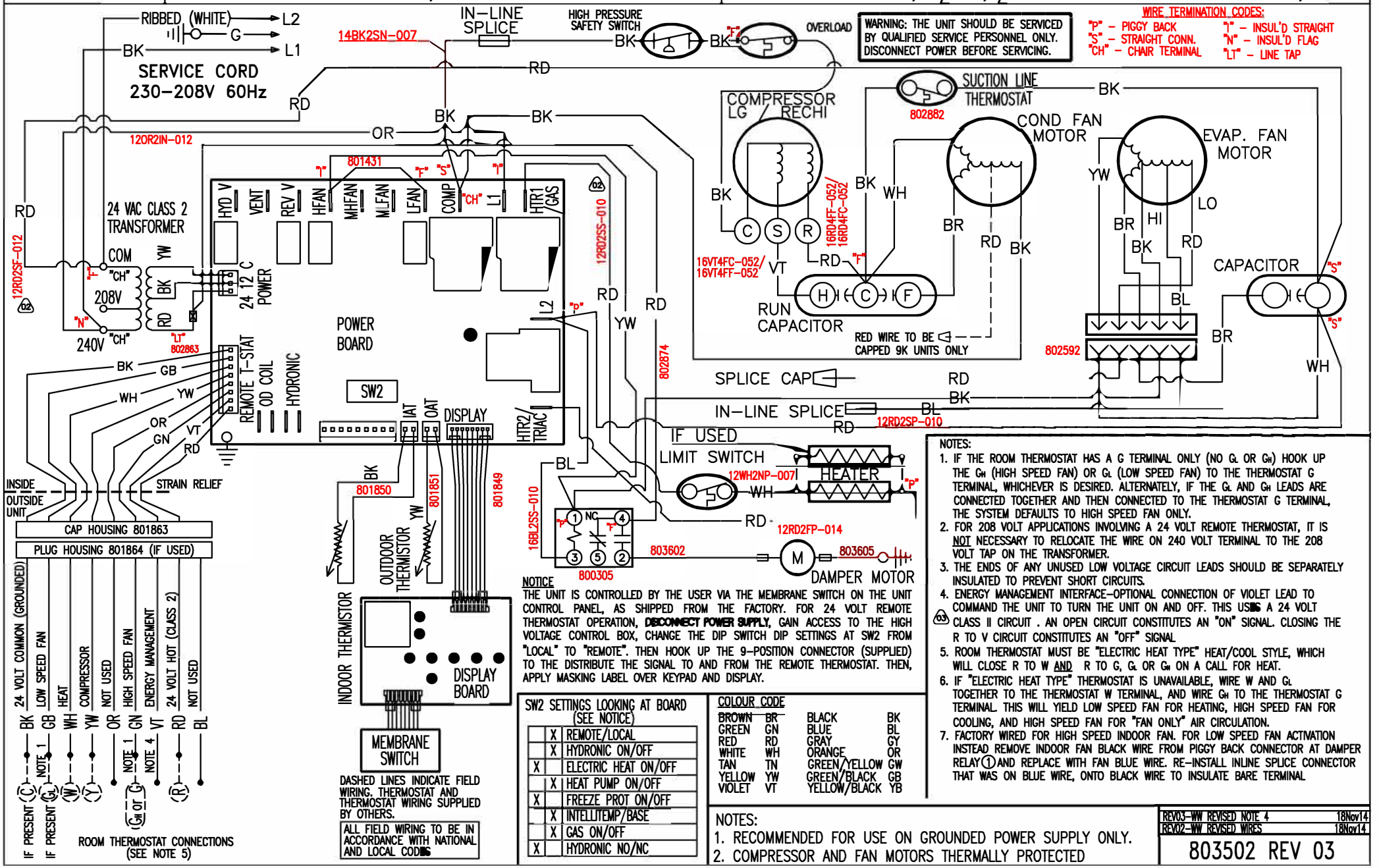


Physical Data

Heating/Cooling Chassis and Front Panel……128lbs

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Wiring Diagram

CONNECTION DIAGRAM | DANGER: ELECTRICAL SHOCK HAZARD, DISCONNECT POWER BEFORE SERVICING | NFEC ELECTRONIC CONTROL, HT/COOL,W/POWERED DAMPER 230-208 VAC 60 Hz. 9,12& 15K



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 DISTRIBUTE THE SIGNAL TO AND FROM THE REMOTE THERMOSTAT. THEN, APPLY MASKING LABEL OVER KEYPAD AND DISPLAY.

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	INTELLITEMP/BASE
	X	GAS ON/OFF
X		HYDRONIC NO/NC

COLOUR CODE

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

NOTES:

1. IF THE ROOM THERMOSTAT HAS A G TERMINAL ONLY (NO G_L OR G_H) 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_L AND G_H 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
03 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, G_L OR G_H 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.
7. FACTORY WIRED FOR HIGH SPEED INDOOR FAN. FOR LOW SPEED FAN ACTIVATION INSTEAD REMOVE INDOOR FAN BLACK WIRE FROM PIGGY BACK CONNECTOR AT DAMPER RELAY (1) AND REPLACE WITH FAN BLUE WIRE. RE-INSTALL INLINE SPLICE CONNECTOR THAT WAS ON BLUE WIRE, ONTO BLACK WIRE TO INSULATE BARE TERMINAL

NOTES:

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

REV03-WW REVISED NOTE 4	18Nov14
REV02-WW REVISED WIRES	18Nov14

803502 REV 03