

PACKAGED TERMINAL AIR CONDITIONER (PTAC) CERTIFIED DRAWING

DWG. NO. Submittal Template RSNU-Hydronic
 REV. - 2.3

PROJECT		DATE		12/10/25		BY		JL		REVISIONS						
PURCHASER		P.O. #		QTY		DATE		BY		DESCRIPTION						
ARCHITECT		SHIP DATE		SLEEVES												
ENGINEER				HTG COIL												
HVAC CONTR.				ENCLOSURE												
GEN. CONTR.				CHASSIS												
DESIGNATION	MODEL NUMBER	QTY	ENCLOSURE (1)		SLEEVE (2)		LOUVER (3)		HTG COIL (4)		MOTORIZED VALVE		HEAT STAT		HTG COIL FRAME	
			STD	SPCL	STD	SPCL	STD	SPCL	STEAM	HOT WATER	YES	NO	YES	NO	YES	NO
A																
B																
C																
TOTAL																

UNIT SPECIFICATIONS+

SERIES MODEL #	5RSNU07	5RSNU09	5RSNU13	8RSNU09	8RSNU13	8RSNU18
Total Cooling Capacity (Btu/hr)*	8,400	9,000	11,600	9,600	11,900	16,600
Sensible Cooling Capacity (Btu/hr)*	6,700	7,200	9,300	7,700	9,500	11,600
EER*	11.6	11.4	10.6	11.2	11.0	9.5
Heating Capacity (Hot Water)**	16,500	16,500	16,500	16,500	16,500	19,400
Heating Capacity (Steam)**	18,700	18,700	18,700	18,700	18,700	20,200
Voltage	115	115	115	208/230	208/230	208/230
Current in cooling mode (Amps)	6.3	6.9	9.5	4.1	5.2	8.4
Power in cooling mode (Watts)	724	789	1,094	857	1,082	1,747
MCA	8.5	9.6	12.1	5.3	6.6	9.0
MOCP	15	15	15	15	15	15
Airflow - High Speed (CFM)	380	380	400	380	400	540
Airflow - Low Speed (CFM)	300	300	350	300	350	450
Outside Airflow (CFM)	60	60	60	60	60	60
Outside X Airflow (CFM)	110	110	110	110	110	110
Weight (Lbs.)	130/141	134/145	134/145	134/145	134/145	137/148

SPECIFICATION NOTES:

- * = Cooling mode performance ratings are in compliance with AHRI Standard 310/380 and CSA Standard 744.
- ** = Hot water heating capacity rated @ EAT = 65 °F, EWT = 200 °F, Flow Rate = 2-GPM
- *** = Steam heating capacity rated @ EAT = 65 °F, Inlet Steam Pressure = 2 PSIG
- 4: Performance data based on R32 refrigerant

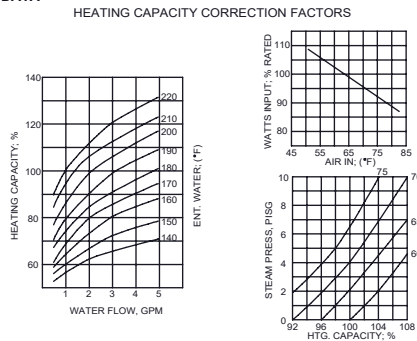
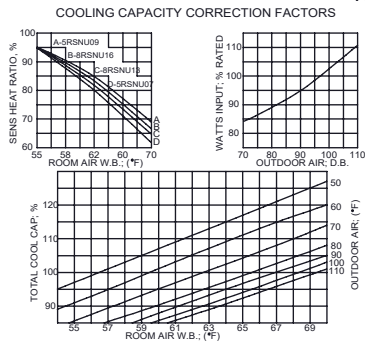
CUSTOM NOTES:

1:

GENERAL NOTES:

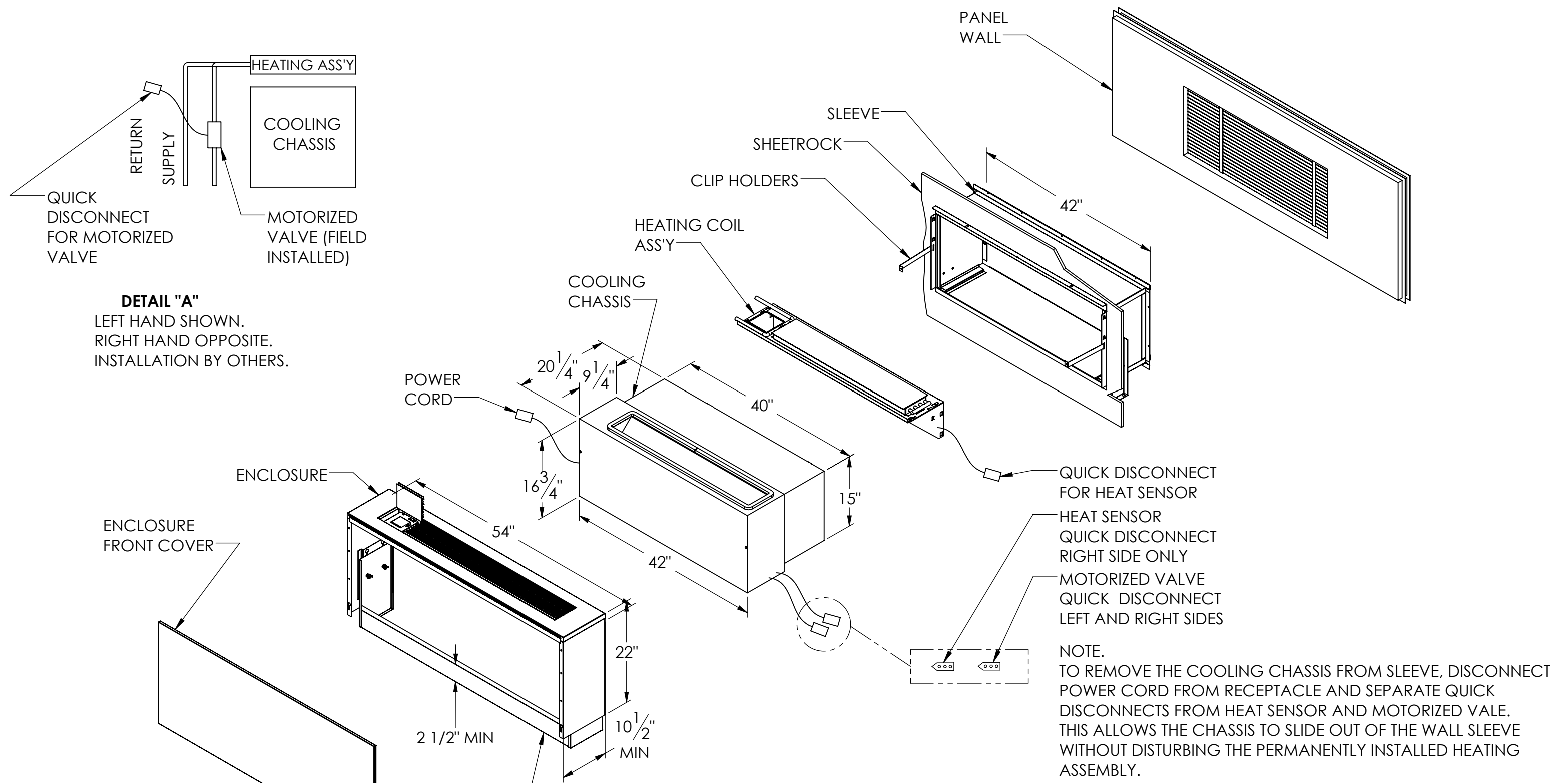
- 1: ROOM ENCLOSURE IS FURNITURE TYPE PAINT-GRIP STEEL.
- 2: WALL SLEEVE IS #18 GAUGE GALVANIZED STEEL.
- 3: LOUVER IS EXTRUDED ALUMINUM, WITH CLEAR ANODIZED FINISH.
- 4: IT IS RECOMMENDED THAT THE ELECTRICAL OUTLET IS INSTALLED OPPOSITE TO THE HEATING RISERS.
- 5: N.Y.C. DEPARTMENT OF BUILDINGS ACCEPTED. MEA 250-93-E -VOL. II
- 6: HEATING COIL QUANTITY AND BREAKDOWN BY MECHANICAL CONTRACTOR.
- 7: SEE ACCOMPANYING DRAWINGS FOR UNIT CONFIGURATION.
- 8: STANDARD ROOM COLOR ENCLOSURE TO BE "ANTIQUÉ WHITE" OR "ARCTIC WHITE".
- 9: PROVIDE LOUVERS FOR ALL MASONRY OPENING. LOUVERS FOR PANEL WALL OPENINGS PROVIDED BY OTHERS.

PERFORMANCE DATA



RSNU SLEEVE (NEW DESIGN) LAYOUT

REVISIONS			
REV.	DESCRIPTION	BY	DATE



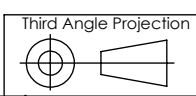
DETAIL "A"
 LEFT HAND SHOWN.
 RIGHT HAND OPPOSITE.
 INSTALLATION BY OTHERS.

- QUICK DISCONNECT FOR HEAT SENSOR
- HEAT SENSOR
- QUICK DISCONNECT RIGHT SIDE ONLY
- MOTORIZED VALVE
- QUICK DISCONNECT LEFT AND RIGHT SIDES

NOTE.
 TO REMOVE THE COOLING CHASSIS FROM SLEEVE, DISCONNECT POWER CORD FROM RECEPTACLE AND SEPARATE QUICK DISCONNECTS FROM HEAT SENSOR AND MOTORIZED VALE. THIS ALLOWS THE CHASSIS TO SLIDE OUT OF THE WALL SLEEVE WITHOUT DISTURBING THE PERMANENTLY INSTALLED HEATING ASSEMBLY.

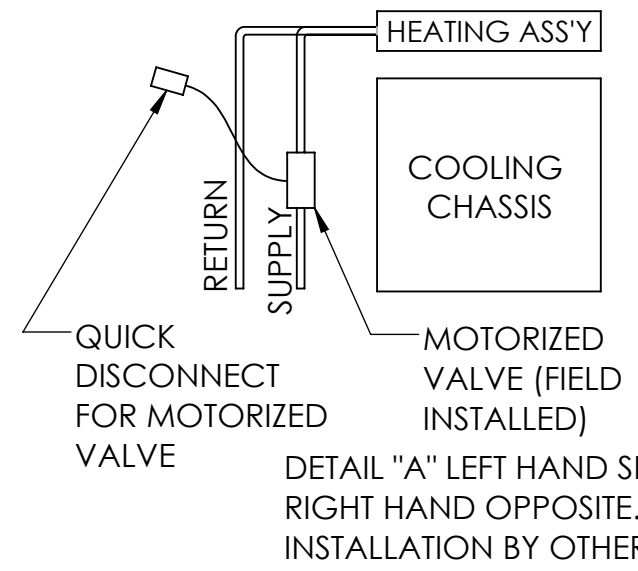
MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553		
WEIGHT (LBS): 621.20			
FINISH: N/A			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	TITLE: RSNU PANEL WALL SLEEVE (NEW DESIGN)+ENCLOSURE MOUNTED T-STAT MODEL BY: YOU DRAWING BY:	DATE: 01/01/01 DATE:	DWG. NO. RSNU SLEEVE (NEW DESIGN) LAYOUT
SIZE B	SCALE: NONE DO NOT SCALE DRAWING	SHEET 1 OF 1	REV A

PROPRIETARY AND CONFIDENTIAL
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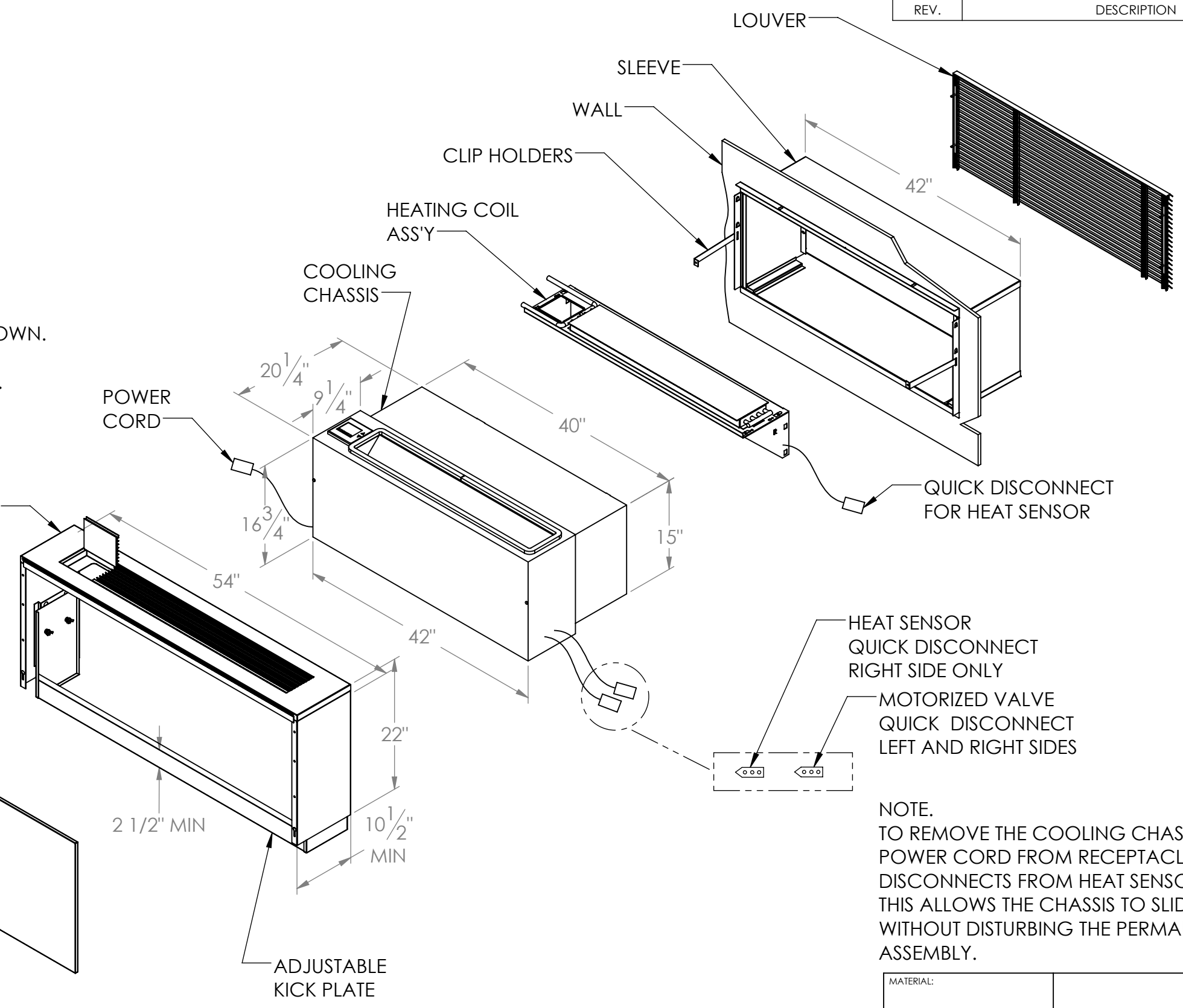


RSNU SLEEVE (NEW DESIGN) LAYOUT

REVISIONS			
REV.	DESCRIPTION	BY	DATE



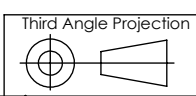
DETAIL "A" LEFT HAND SHOWN. RIGHT HAND OPPOSITE. INSTALLATION BY OTHERS.



NOTE.
TO REMOVE THE COOLING CHASSIS FROM SLEEVE, DISCONNECT POWER CORD FROM RECEPTACLE AND SEPARATE QUICK DISCONNECTS FROM HEAT SENSOR AND MOTORIZED VALE. THIS ALLOWS THE CHASSIS TO SLIDE OUT OF THE WALL SLEEVE WITHOUT DISTURBING THE PERMANENTLY INSTALLED HEATING ASSEMBLY.

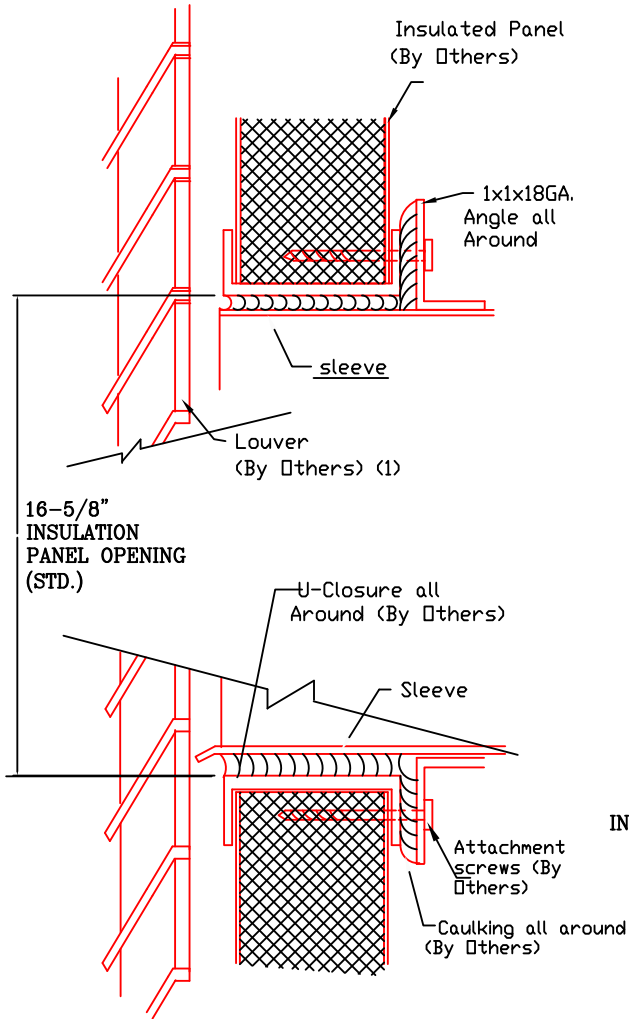
MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553			
WEIGHT (LBS): 549.49				
FINISH: N/A	TITLE: RSNU MASONRY WALL SLEEVE (NEW DESIGN)+UNIT MOUNTED T-STAT	MODEL BY: YOU	DATE: 01/01/01	DWG. NO.
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	DRAWING BY:	DATE:	RSNU SLEEVE (NEW DESIGN) LAYOUT	
	SIZE B	SCALE: NONE DO NOT SCALE DRAWING	SHEET 1 OF 1	REV A

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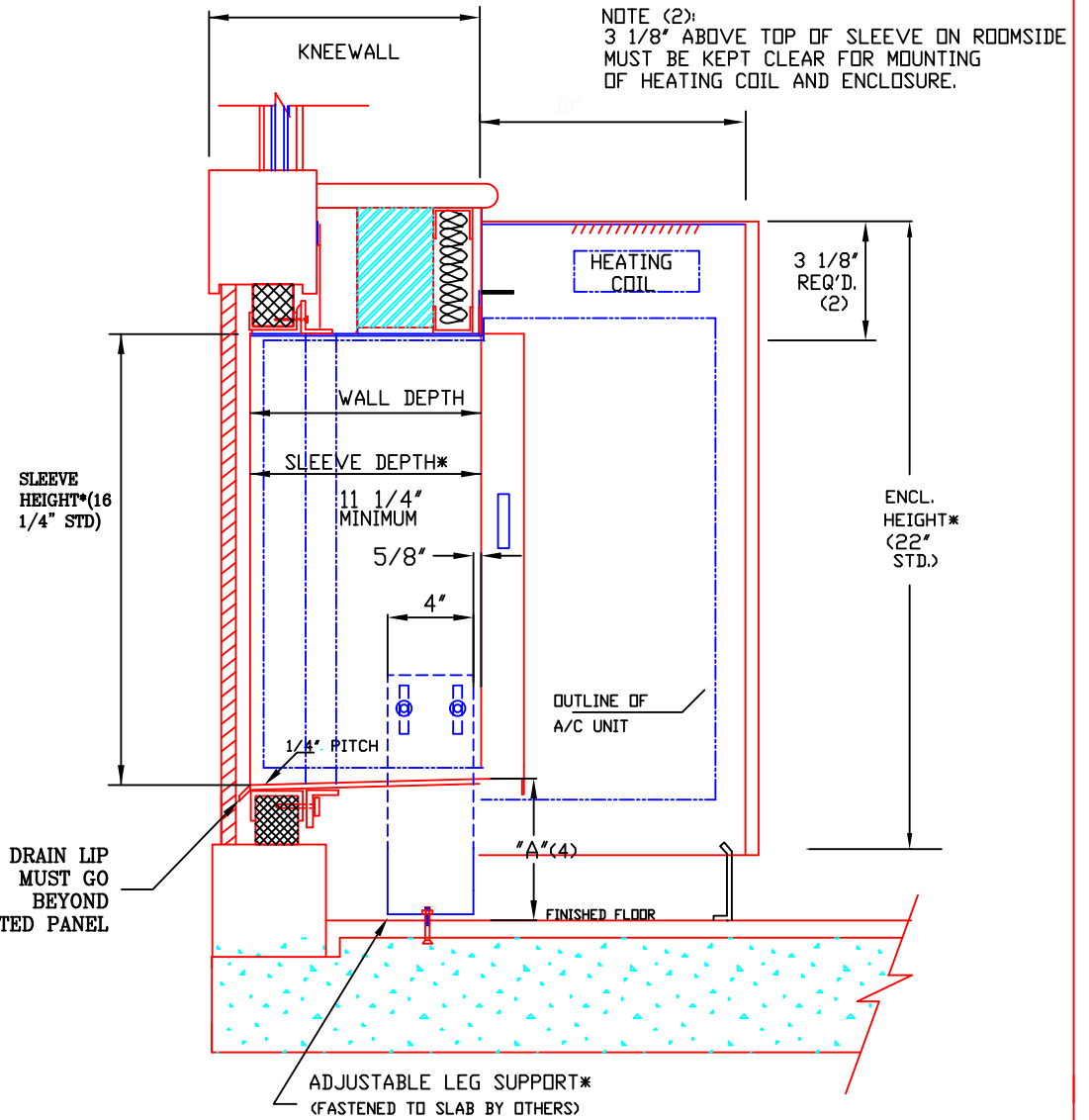
* ARCHITECT TO PROVIDE DETAILS FOR EACH FLOOR

NOTE (1):
PROVIDED LOUVER WILL HAVE AN AREA OF
60% MINIMUM FREE AIR



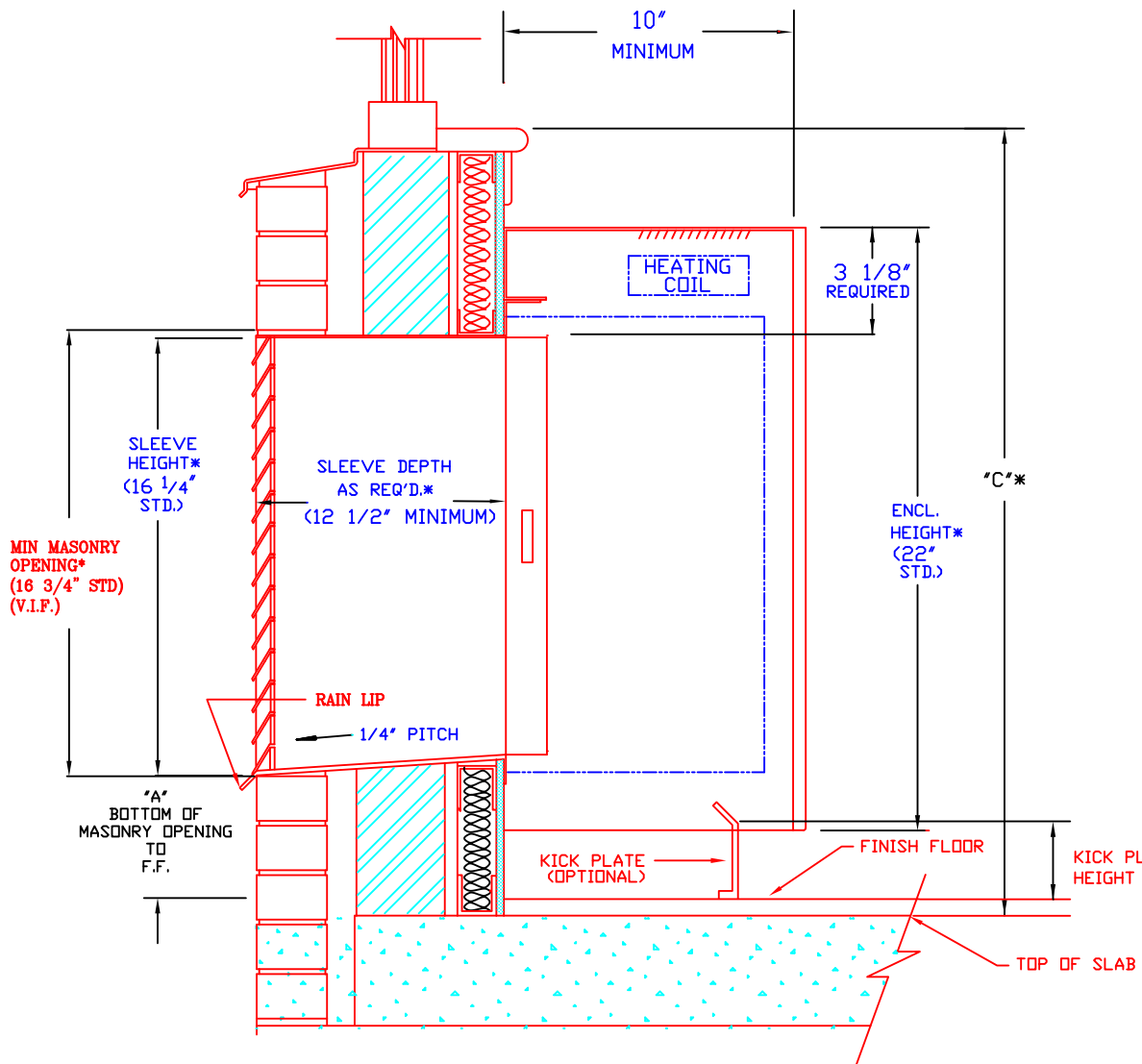
ADDITIONAL NOTES:

- (3) WALL SLEEVE DIMENSION IS (RSNU) 16'-1/4" H x 42" W
- (4) WHEN BOTTOM OF SLEEVE TO FINISHED FLOOR ('A') MEASURES BETWEEN 2^{3/4}" TO 4 1/2", THIS NECESSITATES ORDERING A FRONT INTAKE ENCLOSURE AND CHASSIS AS OPPOSED TO A BOTTOM INTAKE.



NOTE (2):
3 1/8" ABOVE TOP OF SLEEVE ON ROOMSIDE
MUST BE KEPT CLEAR FOR MOUNTING
OF HEATING COIL AND ENCLOSURE.

NO.	REVISIONS	DATE	BY
ICE-AIR LLC.			
RSNU SLEEVE (NEW DESIGN) STANDARD			
TITLE TYP. PTAC @ PANEL WALL			
SCALE N.T.S.	DR. BY VP	DRG. NO.	REV.
DATE 11/04/15		SUB-9794-2	

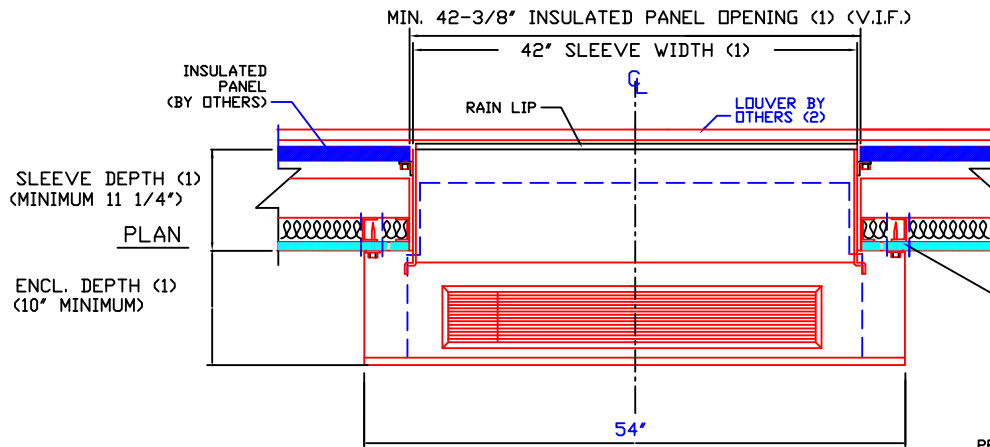


**** NOTES ****

- 1) WALL SLEEVE DIMENSION:
(RSNU) = 42"W x 16-1/4"H
MINIMUM SLEEVE DEPTH: 12-1/4"
- 2) ENCLOSURE DIMENSION: TYPICAL*
10"D x 22"H x 54"W
- 3) KICK PLATE = B. VARIES ('A' - 2 1/2')
WITH ±1" ADJUSTMENT.
- 4) 3" ABOVE TOP OF SLEEVE ON ROOMSIDE
MUST BE KEPT CLEAR FOR MOUNTING
OF HEATING COIL AND ENCLOSURE.
- 5) WHEN 'A', BOTTOM OF SLEEVE TO FINISHED
FLOOR, MEASURES BETWEEN 2-3/4' TO 4-1/2',
THIS NECESSITATES ORDERING A FRONT INTAKE
ENCLOSURE AND CHASSIS AS OPPOSED TO A
BOTTOM INTAKE.
- 6) DIMENSIONS 'A' AND 'C', PROVIDED FOR EACH
FLOOR, DETERMINE ENCLOSURE HEIGHT

* DETAILS TO BE PROVIDED FOR EACH FLOOR

ICE-AIR LLC.			
RSNU SLEEVE (NEW DESIGN) STANDARD			
TITLE TYP. PTAC @ MASONRY			
SCALE N.T.S.	DR. BY VP	DRG. NO.	REV.
DATE 11/04/15	CHK. BY		



NOTES

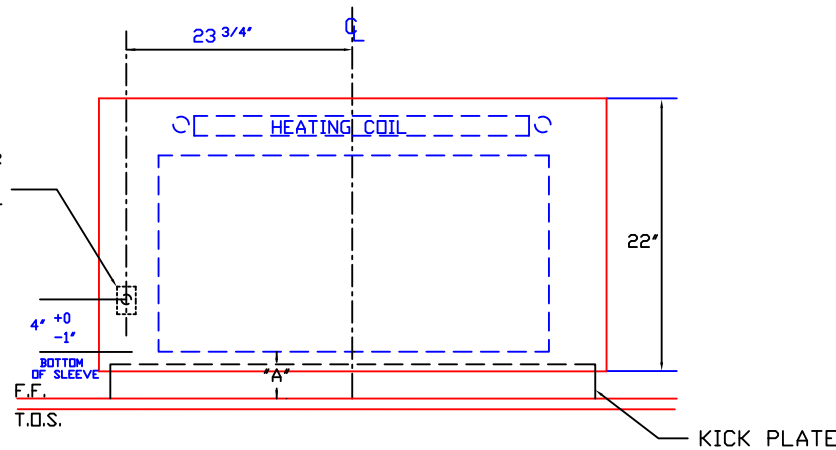
- (1) DETAILS TO BE PROVIDED BY GC FOR EACH FLOOR
 - (2) LOUVER MUST HAVE AN AREA OF MINIMUM 60% FREE AIR FLOW
 - (3) DETAILS TO BE PROVIDED FOR EACH FLOOR
 - *A* IS BOTTOM OF SLEEVE TO FINISHED FLOOR
 - *B* IS KICK PLATE HEIGHT WITH +/- 1" ADJ.
 - *B* = *A* - 2 1/2"
- WHEN *A*, BOTTOM OF SLEEVE TO FINISHED FLOOR, MEASURES BETWEEN 2-3/4" TO 4-1/2" IT IS ADVISED TO ORDER A FRONT INTAKE ENCLOSURE AND CHASSIS AS OPPOSED TO A REGULAR BOTTOM INTAKE.

PROVIDE METAL GYP. BD. STUDS FOR ENCLOSURE ATTACHMENT (53" CENTER TO CENTER)

ELECTRIC OUTLET BY ELECTRICAL CONTRACTOR 115V, 15A OR 208V, 15A AS REQUIRED.

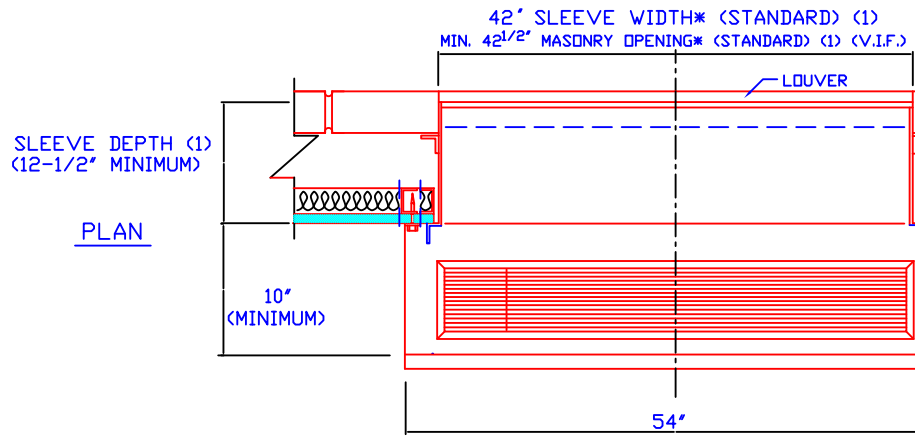
RECOMMENDED LOCATION OF ELECTRICAL OUTLET IS OPPOSITE HEATING RISERS.

INSTALL THE ELECTRICAL OUTLET WHERE THE END-USER CAN EASILY CONNECT/DISCONNECT THE POWER CORD PLUG.



ELEVATION

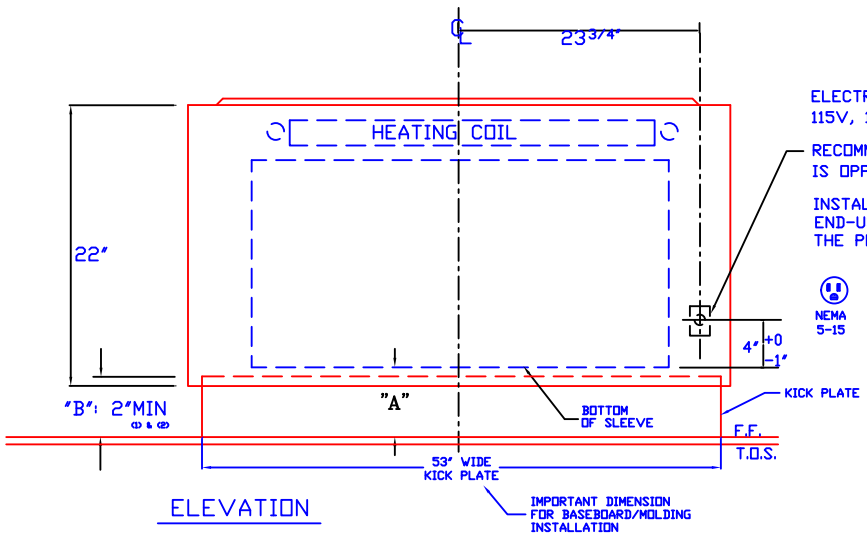
NO.	REVISIONS	DATE	BY
ICE-AIR LLC			
TITLE			
RSNU SLEEVE (NEW DESIGN) STANDARD			
TYP. RSNU @ CURTAIN WALL			
SCALE	N.T.S.	DR. BY	VP
DATE	11/04/15	CHK. BY	
DRG. NO.	SUB-9794-3		REV.



NOTES

- (1) DETAILS TO BE PROVIDED BY GC FOR EACH FLOOR
 - (2) PROVIDED LOUVER WILL HAVE AN AREA OF MINIMUM 60% FREE AIR FLOW
 - (3) DETAILS TO BE PROVIDED FOR EACH FLOOR
 - "A" IS BOTTOM OF SLEEVE TO FINISHED FLOOR
 - "B" IS KICK PLATE HEIGHT WITH +/- 1" ADJ.
 - "B" = "A" - 2 1/2"
- WHEN "A", BOTTOM OF SLEEVE TO FINISHED FLOOR, MEASURES BETWEEN 2-3/4" TO 4-1/2" IT IS ADVISED TO ORDER A FRONT INTAKE ENCLOSURE AND CHASSIS AS OPPOSED TO A REGULAR BOTTOM INTAKE.

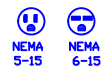
PROVIDE METAL GYP. BD. STUDS FOR ENCLOSURE ATTACHMENT (53" CENTER TO CENTER)



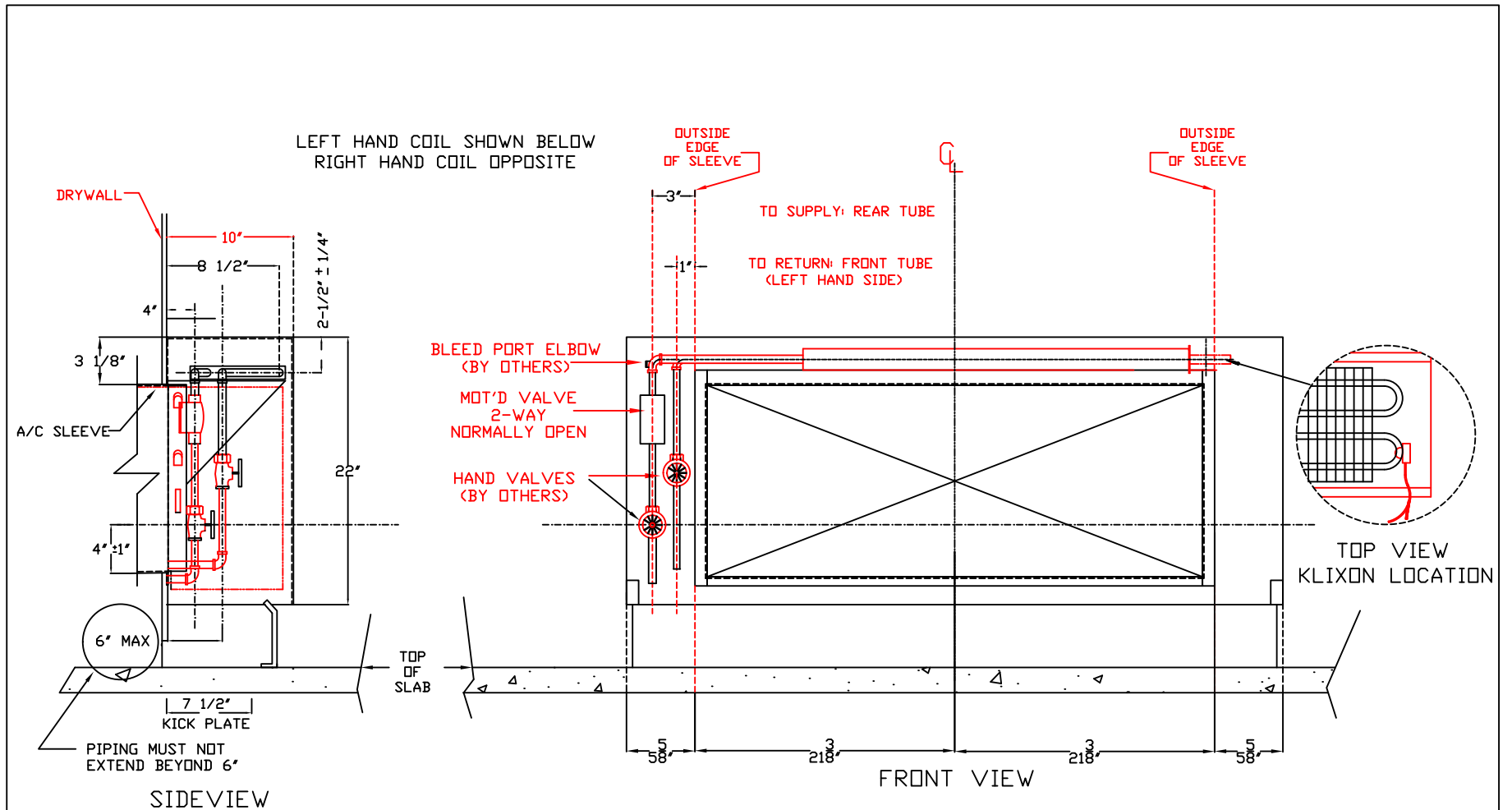
ELECTRIC OUTLET BY ELECTRICAL CONTRACTOR 115V, 15A OR 208V, 15A AS REQUIRED.

RECOMMENDED LOCATION OF ELECTRICAL OUTLET IS OPPOSITE HEATING RISERS

INSTALL THE ELECTRICAL OUTLET WHERE THE END-USER CAN EASILY CONNECT/DISCONNECT THE POWER CORD PLUG.



NO.	REVISIONS	DATE	BY
ICE-AIR LLC			
RSNU SLEEVE (NEW DESIGN) STANDARD			
TITLE			
TYP. PTAC @ MASONRY WALL			
SCALE	N.T.S.	DR. BY	VP
DATE	11/04/15	CHK. BY	
		DRG. NO.	REV.

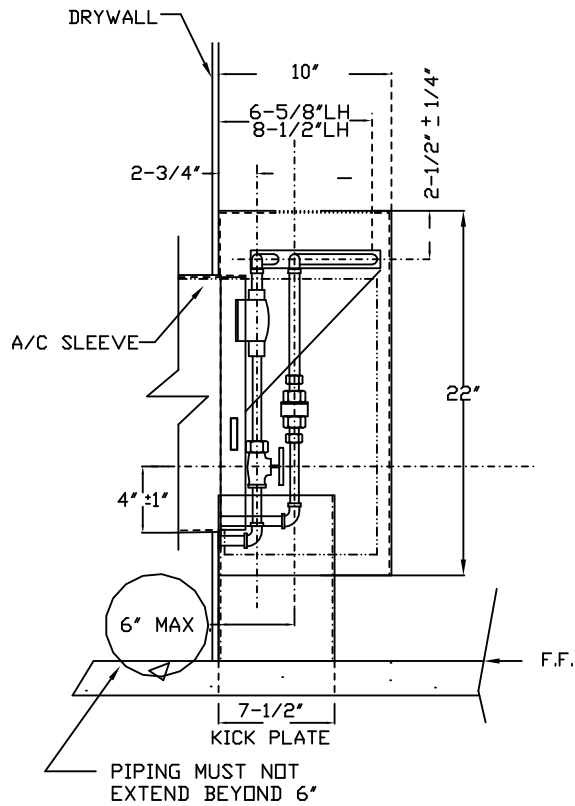


**** NOTES ****

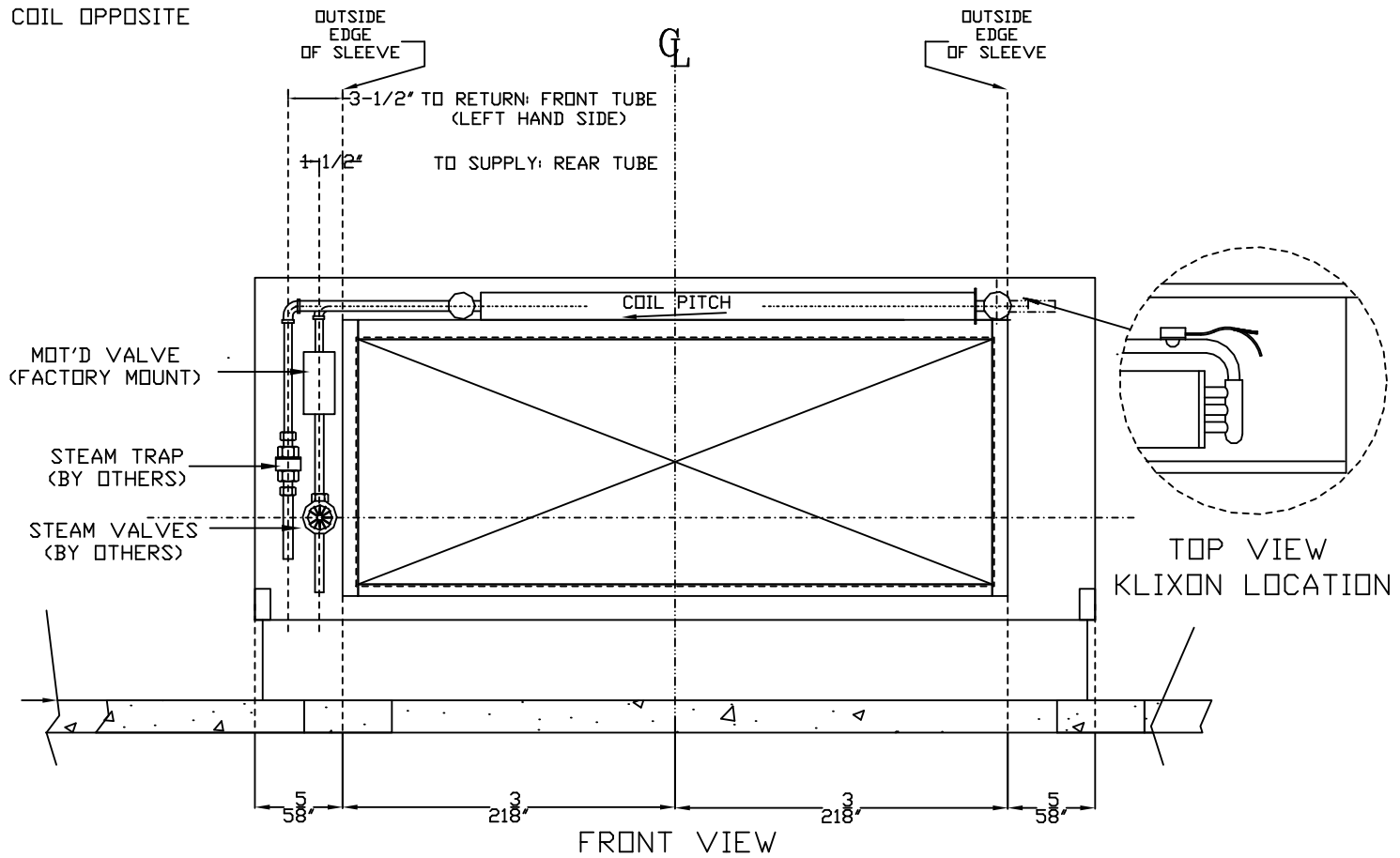
- 1) RECOMMENDED PIPING TO 5/8" O.D. HEATING COIL TUBE STUBS.
- 2) ICE-AIR SUPPLIES HEATING COIL ASSEMBLY & MOT. VALVE LOOSE.
- 3) MOTORIZED VALVE IS NORMALLY OPEN FOR HOT WATER SYSTEM UNLESS OTHERWISE SPECIFIED.

ICE-AIR LLC. 80 HARTFORD AVE. MOUNT VERNON, NY 10553			
CUSTOMER:			
TITLE: RSNU SLEEVE (NEW DESIGN) SERIES HOT WATER HEAT PIPING DIAGRAM (54')			
DATE:	DWG BY:	DWG #:	REV.
11/04/15	VP		

LEFT HAND COIL SHOWN BELOW
RIGHT HAND COIL OPPOSITE



SIDEVIEW



FRONT VIEW

**** NOTES ****

- 1) RECOMMENDED PIPING TO 5/8" O.D. HEATING COIL TUBE STUBS.
- 2) ICE-AIR SUPPLIES HEATING COIL ASSEMBLY & MOT. VALVE LOOSE.
- 3) MOTORIZED VALVE IS NORMALLY CLOSED FOR STEAM SYSTEM UNLESS OTHERWISE SPECIFIED.
- 4) COIL & TUBING MUST BE PITCHED FOR CONDENSATE RETURN.

ICE-AIR LLC. 80 HARTFORD AVE. MOUNT VERNON, NY 10553			
CUSTOMER:			
TITLE: RSNU SLEEVE (NEW DESIGN) SERIES STEAM HEAT PIPING DIAGRAM (54')			
DATE: 11/04/15	DWG BY: VP	DWG #: SUB-9794-4	REV.

PRODUCT SPECIFICATIONS
PACKAGED TERMINAL AIR CONDITIONER (PTAC)

ICE AIR HI SPEC™ UNITS
'RSNU' SERIES UNITS

1. Equipment: Provide "RSNU" Series Packaged Terminal Air Conditioners (PTACs), as manufactured by Ice Air, LLC.
2. Components: Air conditioner to consist of wall sleeve, exterior louver, heating coil assembly, cooling chassis and room enclosure. Units to operate at either 115 volt or 208 / 230 volt, single phase, 60 hertz circuits.
3. Wall Sleeves: Wall sleeve exterior dimensions to be 42" wide x 16" high (RSNU Series), to comply with US DOE requirements for new construction PTACs. Smaller dimension wall sleeves are not acceptable under DOE regulations. Wall sleeve to be factory fabricated of 18 gauge galvanized steel and to be shipped with a mechanically-attached temporary coated cardboard filler panel at the exterior for weather protection. Cardboard filler panel to be removed prior to chassis and louver installation. Wall sleeve to have built-in pitch of at least 1/4" and to be fabricated with an angled drain lip for proper drainage to the exterior of the building. Wall sleeves for masonry locations to be factory fabricated to match the full wall depth at each location; wall sleeves with field-installed extension pieces are not acceptable. Wall sleeves for panel wall locations are to be provided with optional adjustable-height support legs and galvanized steel sleeve angles to attach to the building panel wall system.
4. Louvers: Exterior louver to be horizontal, extruded aluminum blade-type construction with clear anodized (painted Duranar) finish (color must be specified). Louver to be supplied with stainless steel fastening hardware and must be capable of being installed from within the wall sleeve. Louvers at panel wall locations to be supplied by others.
5. Chassis: Cooling chassis to be a self-contained, slide-in assembly consisting of a sealed refrigerant system, evaporator and condenser sections with separate PSC motors (single motor units are not acceptable), manual (optional motorized) outside fresh air damper, unit mounted controls and line cord. Provide a permanent, washable aluminum mesh filter with each unit.
- 5a. Refrigeration System: Sealed refrigerant system to consist of high efficiency rotary compressor, copper tube / aluminum fin evaporator and condenser coils, refrigeration metering device consisting of a capillary tube expansion system and interconnecting tubing. System to be factory charged and sealed and capable of operating in the cooling mode to an

- outdoor ambient temperature of 35° F. All units to be manufactured with R32 Green refrigerant; units containing R22 or R407C refrigerant are not acceptable.
- 5b. Evaporator Section: Evaporator motor and tangential blower wheel to be mounted above the evaporator coil. Tangential blower wheel to be fabricated from aluminum and to be directly driven by a multi-speed PSC motor (optional EC) with built-in thermal overload protector. Evaporator section to contain an integral stamped and powder coated steel drain pan, draining into two 3/4" i.d. drain hoses (single drain units are not acceptable).
- 5c. Condenser Section: Condenser section to contain a separate PSC motor (optional EC) and plastic or metal propeller fan with an integral slinger ring. Condenser motor to cycle with compressor and to run during the cooling cycle only.
- 5d. Condensate Disposal: Condensate to drain from the indoor base pan into the exterior galvanized steel condenser base pan through two 3/4" i.d. drain hoses. Condensate disposal to be accomplished by the entrainment of water particles in the condenser air stream and evaporation upon the hot condenser coil. No building condensate drain lines are to be required.
- 5e. Chassis Sheet Metal: Chassis sheet metal parts to be manufactured entirely of 18 gauge and 20 gauge galvanized steel. Chassis base pan to be powder coated inside and out to prevent corrosion of sheet metal pan. Chassis to be manufactured with an outsized indoor section that mates with the wall sleeve interior flanges and creates a positive weather seal using crushable pressure-sensitive foam tape, thereby preventing air and water infiltration. Chassis seal must be an integral part of unit construction, and use of attached sealing angles or channels is not acceptable.
- 5f. Unit Controls: Unit controls to include a digital controller with integral electronic thermostat. Provide unit mounted seven-day programmable thermostat. Include standard low-temperature control to activate motorized heating control valve below 45°F. Interior room temperature, and Freezestat to be mounted on the evaporator coil only (condenser mounted freezestats are unacceptable) to provide true temperature readings.
- 5g. Manual Outside Air: Provide manual/motorized outside air damper with chassis mounted actuator.
6. Heating Assembly (Hydronic Heat): Heating Assembly to consist of a snap-in galvanized steel cradle and heating coil, with optional (Normally Open) (Normally Closed) motorized heating control valve. Motorized valve to be provided with Molex-type pin connector for plug-in electrical

connection to the chassis, and to be actuated by the unit thermostat. Heating coil to be fabricated of copper tubing, mechanically expanded into aluminum fins. (Hot water/Steam coil to be headered type.). Coils to be supplied either right- or left-handed in quantities specified in building plans. Entire heat assembly to permanently mount onto the wall sleeve horizontally above cooling chassis. In Steam systems they will have a proper pitch built into the cradle assembly to ensure correct drainage of condensate water towards the return. Supply of all required valves and fittings, other than the motorized valve, is by others. Motorized valve to be shipped loose for field installation (optional factory attachment to heat assembly).

7. Room Enclosure (Cabinet): Room enclosure to be flat top type and to be fabricated of 18 gauge galvanized paint grip furniture steel. Enclosure front cover to be fabricated from 20 gauge galvanized steel and to be removable without the use of tools. Enclosure to be finished in (Antique White) (Arctic White) baked powder coat finish. Room enclosure to mount to wall sleeve. Provide concealed flanges with clearance holes as an alternate means of enclosure attachment by fastening directly to the interior wall. Enclosure kick plate to be vertically adjustable.
8. Warranty and Code Compliance: Unit to be guaranteed free of defects in material and workmanship for one year from date of delivery (Optional 2nd thru 5th year compressor parts only). (and Labor). Units to be ETL listed for safety in the United States and Canada, to have New York City MEA and BEC approvals, to be in compliance with all local, state and federal energy efficiency and building codes and to be tested in accordance with current ARI standards.