Advertisement for Bids

HVAC System Installation – City Auditorium
City of Glennville, Georgia

The City of Glennville is currently accepting **sealed bids** for the installation of a new HVAC system at the City Auditorium. This project includes the **supply of all necessary materials, equipment, and labor** required to complete a full, code-compliant installation.

Sealed proposals must be received in the Office of the City Manager at **City Hall, 134 S. Veterans Boulevard, Glennville Georgia**, no later than **2:00 p.m. (local time), Friday, May 23, 2025**, at which time and place they will be **publicly opened and read aloud**. No submitted bid may be withdrawn after the scheduled closing time for receipt of bids for a period of **thirty (30) days**.

Specifications are available, for public inspection at City Hall or online at the City of Glennville's website: https://www.glennvillega.gov

Scope of Work Includes:

- Removal of existing HVAC components
- Installation of a new, energy-efficient HVAC system
- All required electrical and control systems
- System startup and testing
- Compliance with all applicable local, state, and federal laws, codes, and regulations

Bid Requirements:

- Proof of licensure and insurance
- Detailed project timeline and cost breakdown
- Warranty information on equipment and workmanship
- Bid Bond, Payment Bond, and Performance Bond

All proposals must be accompanied by a **Bid Bond**, drawn in favor of the City of Glennville, Georgia, in the amount of **5% of the total lump sum bid**. This bond ensures that, if awarded the contract, the bidder will promptly enter into a contract and furnish both **Performance and Payment Bonds**, each in the amount of **100% of the contract value**, as required by law and approved by the City Attorney.

Failure to execute the contract and provide the required bonds within **ten (10) days** after notification of award will result in forfeiture of the Bid Bond to the City of Glennville as liquidated damages.

The **City of Glennville reserves the right to reject any or all bids** and to waive any informalities or technicalities in the bidding process.

City Auditorium HVAC Replacement Specifications

The contractor shall furnish all labor, material, and equipment necessary to:

- Demo / replace:
  - (2) Two existing 15-ton gas/electric HVAC package units
  - (1) One 7-1/2-ton gas/electric HVAC package unit
  - (1) One 5-ton split upflow gas/electric air conditioning system

New equipment shall consist of:

- (2) Carrier Model #48FEDM20-5 (17-1/2 ton)
- (1) Carrier Model #48FEDM08-5 (7-1/2 ton)
  - Refrigerant: 454B
  - Configuration: Horizontal supply/return
  - Features: Gas heat, louvered coil guard, manual outside air damper, programmable thermostat
- (1) Carrier 5-ton split upflow gas/electric air conditioning system
  - Refrigerant: 454B
  - Features: Coil guard, programmable thermostat

Notes:

1. All equipment shall be set on existing concrete pads.
2. Crane will be required to lift over obstruction to remove old and set new package units.
3. Manual outside air damper for package units: 0–25% (Field Installed).
4. All old equipment will become property of the contractor and shall be disposed of per environmental guidelines.
5. Suction and liquid line tubing for 5-ton split A/C system shall be replaced with hard drawn ACR type and sized per manufacturer guidelines. Suction line tubing shall be insulated with ½" wall closed-cell tubing.
6. All package units and the 5-ton split condensing unit shall be 208-230V / 60Hz / 3PH.
7. Replace and size disconnects for new equipment and install new watertight line voltage conduit/wiring from disconnects to equipment per NEC guidelines.
8. Modification of duct and hood cover for duct shall be installed per SMACNA guidelines.
9. Supply and return ducts shall have a canvas connection between duct and equipment.
10. All modifications of supply and return ducts shall be insulated with 3" foil-backed insulation, sealed with duct mastic and FSK tape.
11. Existing natural gas lines shall be modified to match up with new equipment.
12. All equipment shall be installed per Carrier specifications.
13. Warranty consists of:
    - 1st year: Parts and labor
    - 5 years: Compressor only

- 10 years: Heat exchanger
  (See Warranty Details)

14. See data sheets and certified drawings for HVAC equipment.

Conclusion

These specifications outline the complete scope of work for the HVAC upgrade at the City Auditorium, including equipment requirements, installation procedures, and compliance with applicable standards and guidelines. The contractor is expected to adhere strictly to the list of specific materials to be utilized as provided in the attached documentation. The contractor shall comply with these specifications in their entirety to ensure a professional, compliant, and successful installation.

Unit Report For 17.5

Project:
Prepared By:

Unit Parameters

Unit Model: **48FEDM20AJM5-0A0A0**
Unit Size: ..... **20 (17.5 Tons)**
Volts-Phase-Hertz: **208-3-60**
Heating Type: ..... **Gas**
Refrigerant: **R-454B**
Heat Control: ..... **Low Heat**
Duct Cfg: ... **Horizontal Supply / Horizontal Return**
DX Options: ..... **Two Stage Cooling, Single Circuit**

Dimensions (ft. in.) & Weight (lb.) ***

Unit Length: ..... **10' 7.875"**
Unit Width: ..... **7' 2.375"**
Unit Height: ..... **3' 11.75"**
Total Operating Weight: ..... **1793** lb

*** Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

Gas Line Size: **3/4**
Condensate Drain Line Size: **3/4**
Return Air Filter Type: **Throwaway**
Return Air Filter Quantity: **6**
Return Air Filter Size: **20 x 25 x 2**

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

High Static Option - Horizontal Supply
Al/Cu - Al/Cu - Louvered Hail Guard
Standard Electromechanical Controls
Standard Packaging

Warranty Information

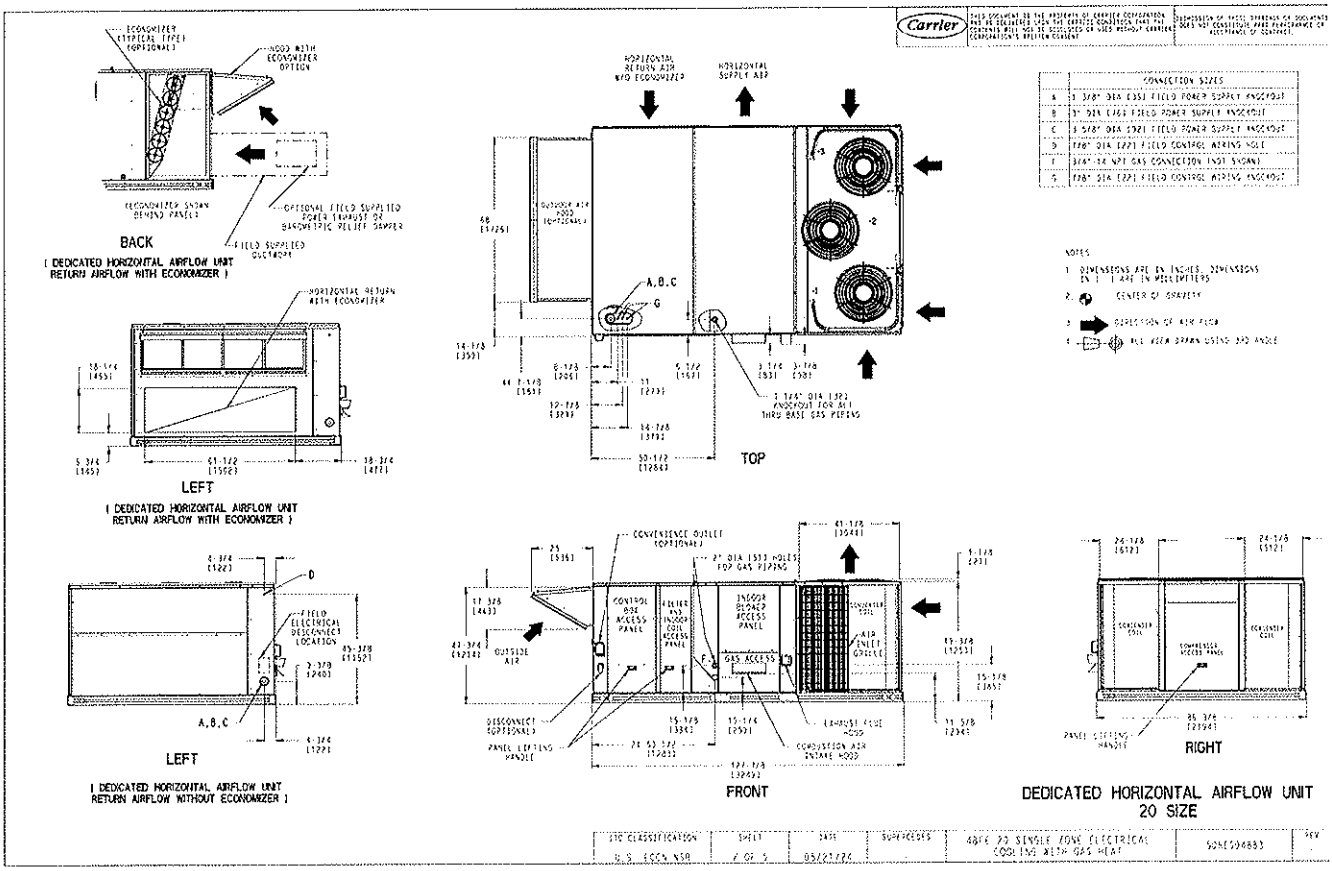
1-Year parts(std.)
5-Year compressor parts(std.)
10-Year heat exchanger - Aluminized(std.)

Ordering Information

Part Number	Description	Quantity
48FEDM20AJM5-0A0A0	Rooftop Unit	1
	Base Unit	
	Al/Cu - Al/Cu - Louvered Hail Guard	
	Electromechanical control, No intake or exhaust option. Will allow for use of field installed econo	

Certified Drawing for 17.5

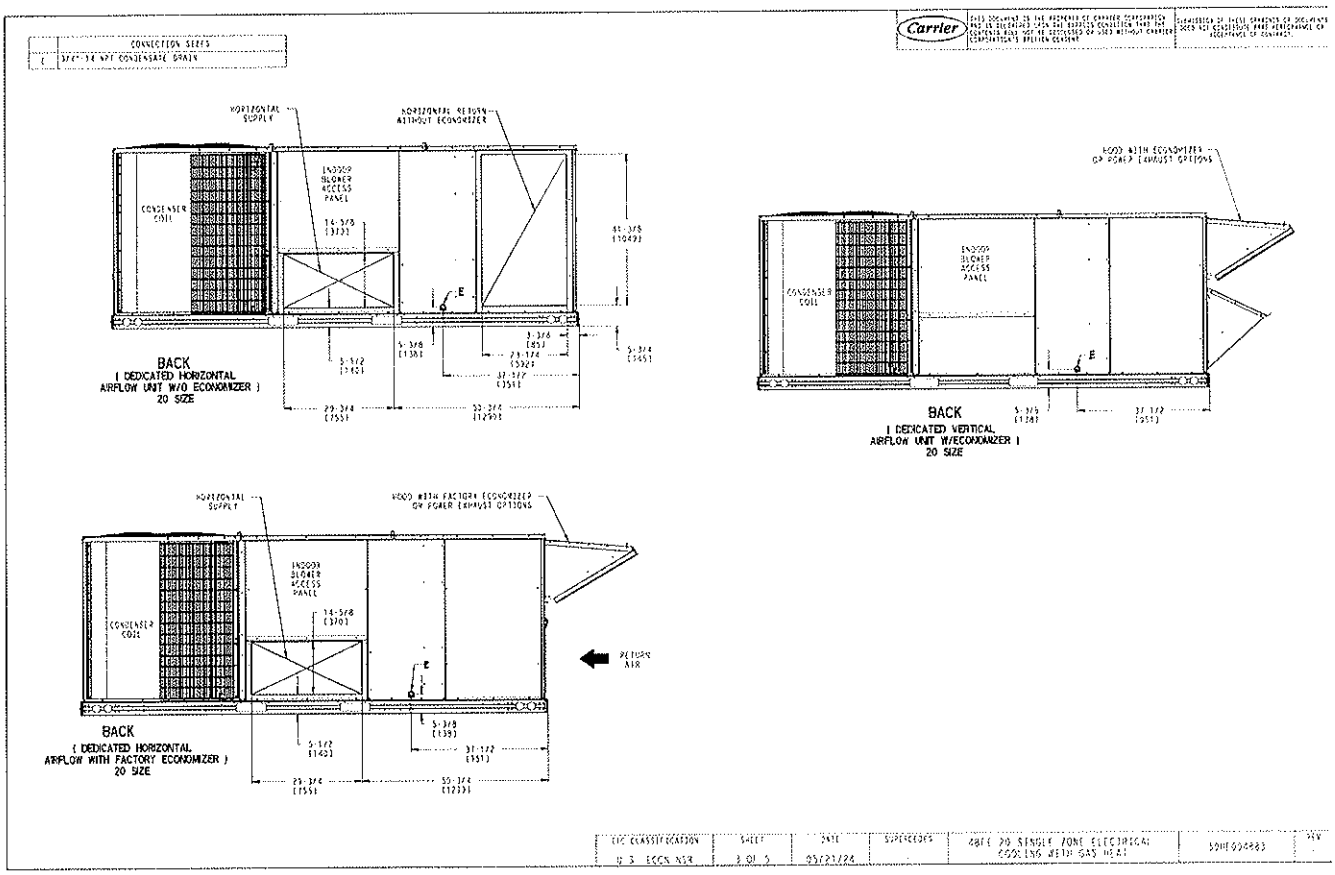
Project:
Prepared By:



Packaged Rooftop Builder 1.79i

Certified Drawing for 17.5

Project:
Prepared By:

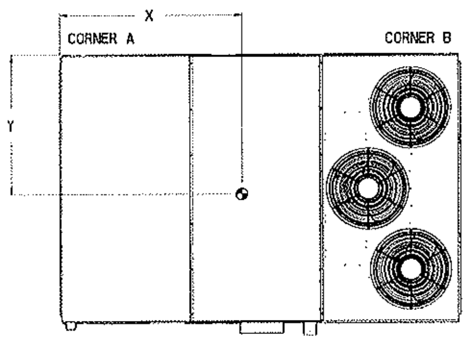


Certified Drawing for 17.5

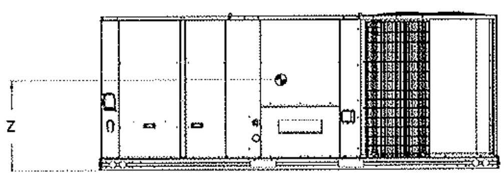
Project:
Prepared By:

UNIT	STD UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG	LBS.	KG.	LBS	KG.	LBS	KG.	LBS	KG.	X	Y	Z
48FE 20	1796	815	393	178	479	217	521	236	403	183	73 (1853)	45 (1143)	16 1/2 (419)

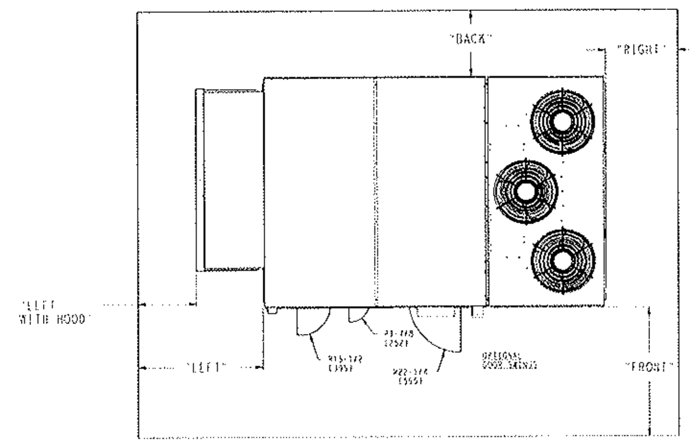
* STANDARD UNIT WEIGHT IS WITH LOW GAS HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



TOP



FRONT



NOTES:

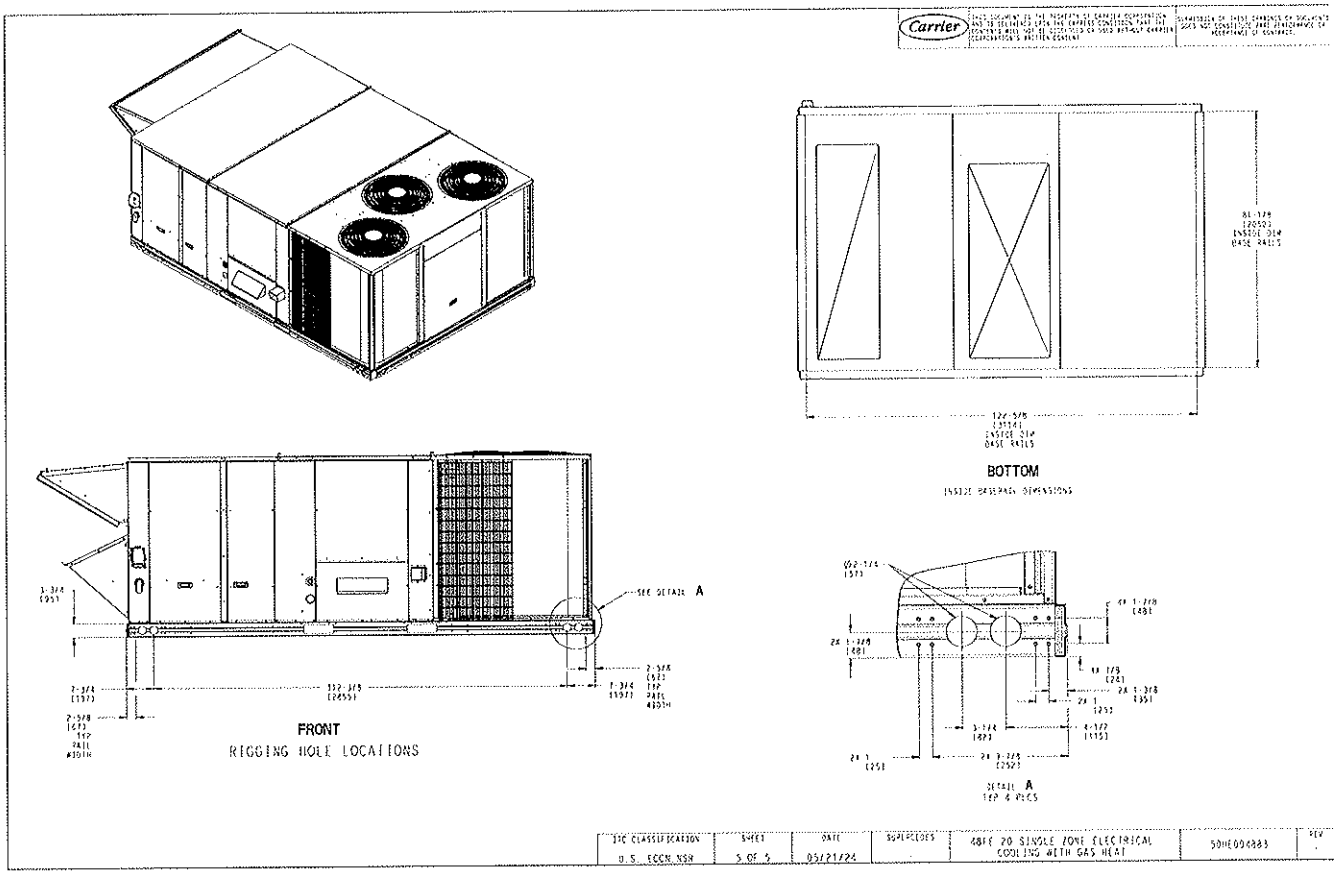
1. CLEARANCE ABOVE THE UNIT TO BE 72"
2. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

	CLEARANCE		
SURFACE	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER	OPERATING CLEARANCE
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK	42 [1067mm]	36 [914mm]	18 [457mm]
LEFT WITH HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

ETC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN NSR	4 OF 5	05/21/24		48FE 20 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE004883	-

Certified Drawing for 17.5

Project:
Prepared By:



Performance Summary For 17.5

Project:
Prepared By:

Part Number:48FEDM20AJM5-0A0A0

Refrigerant:	R-454B	
ARI EER:	10.80	
IEER:	14.5	

Base Unit Dimensions

Unit Length:	127.9	in
Unit Width:	86.4	in
Unit Height:	47.8	in

Operating Weight

Base Unit Weight:	1673	lb
High Static Option - Horizontal Supply:	30	lb
Al/Cu - Al/Cu - Louvered Hail Guard:	90	lb
Total Operating Weight:	1793	lb

Unit

Unit Voltage-Phase-Hertz:	208-3-60	
Air Discharge:	Vertical	
Fan Drive Type:	Vane Axial	
Actual Airflow:	6000	CFM
Site Altitude:	0	ft

Cooling Performance

Condenser Entering Air DB:	95.0	F
Evaporator Entering Air DB:	80.0	F
Evaporator Entering Air WB:	67.0	F
Entering Air Enthalpy:	31.44	BTU/lb
Evaporator Leaving Air DB:	56.5	F
Evaporator Leaving Air WB:	55.2	F
Evaporator Leaving Air Enthalpy:	23.28	BTU/lb
Gross Cooling Capacity:	220.19	MBH
Gross Sensible Capacity:	152.54	MBH
Compressor Power Input:	17.16	kW
Coil Bypass Factor:	0.099	

Heating Performance

Heating Airflow:	6000	CFM
Entering Air Temp:	70.0	F
Leaving Air Temp:	97.5	F
Gas Heating Input Capacity:	176.0 / 220.0	MBH
Gas Heating Output Capacity:	142.0 / 178.0	MBH
Temperature Rise:	27.5	F
Thermal Efficiency (%):	81.0	

Supply Fan

External Static Pressure:	1.00	in wg
Fan RPM:	1703	
Fan Power:	2.89	BHP
NOTE:	Selected IFM RPM Range: 1215 - 2200	

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data

Voltage Range:	187 - 253
Compressor #1 RLA:	31.8
Compressor #1 LRA:	255
Compressor #2 RLA:	31.9
Compressor #2 LRA:	208

Performance Summary For 17.5

Project:
Prepared By:

Indoor Fan Motor Type:.....**HIGH-HORZ**
Indoor Fan Motor FLA (Total):.....**12.6**
Combustion Fan Motor FLA (ea):.....**0.52**
Power Supply MCA:.....**101**
Power Supply MOCP (Fuse or HACR):.....**125**
Disconnect Size FLA:.....**107**
Disconnect Size LRA:.....**508**
Electrical Convenience Outlet:.....**None**
Outdoor Fan [Qty / FLA (ea)]:.....**3 / 1.5**

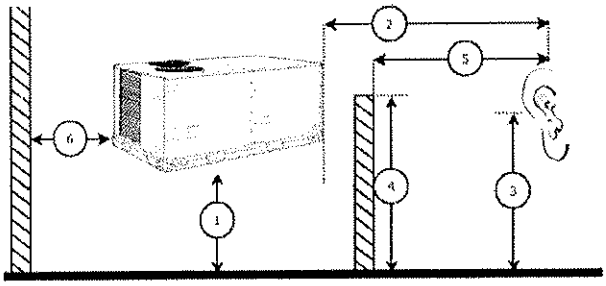
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	83.1	80.2	92.2
125 Hz	84.9	77.7	83.9
250 Hz	83.6	71.4	80.4
500 Hz	77.9	67.5	81.8
1000 Hz	77.8	68.3	78.7
2000 Hz	74.9	62.3	76.5
4000 Hz	70.0	53.2	72.2
8000 Hz	63.4	45.4	65.4
A-Weighted	82.6	71.9	84.1

Advanced Acoustics



Advanced Accoustics Parameters

1. Unit height above ground:.....**30.0** ft
2. Horizontal distance from unit to receiver:.....**50.0** ft
3. Receiver height above ground:.....**5.7** ft
4. Height of obstruction:.....**0.0** ft
5. Horizontal distance from obstruction to receiver:.**0.0** ft
6. Horizontal distance from unit to obstruction:.....**0.0** ft

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	92.2	83.9	80.4	81.8	78.7	76.5	72.2	65.4	93.6 Lw
B	66.0	67.8	71.8	78.6	78.7	77.7	73.2	64.3	84.1 LwA
C	59.8	51.5	48.0	49.4	46.3	44.1	39.8	33.0	61.2 Lp
D	33.6	35.4	39.4	46.2	46.3	45.3	40.8	31.9	51.7 LpA

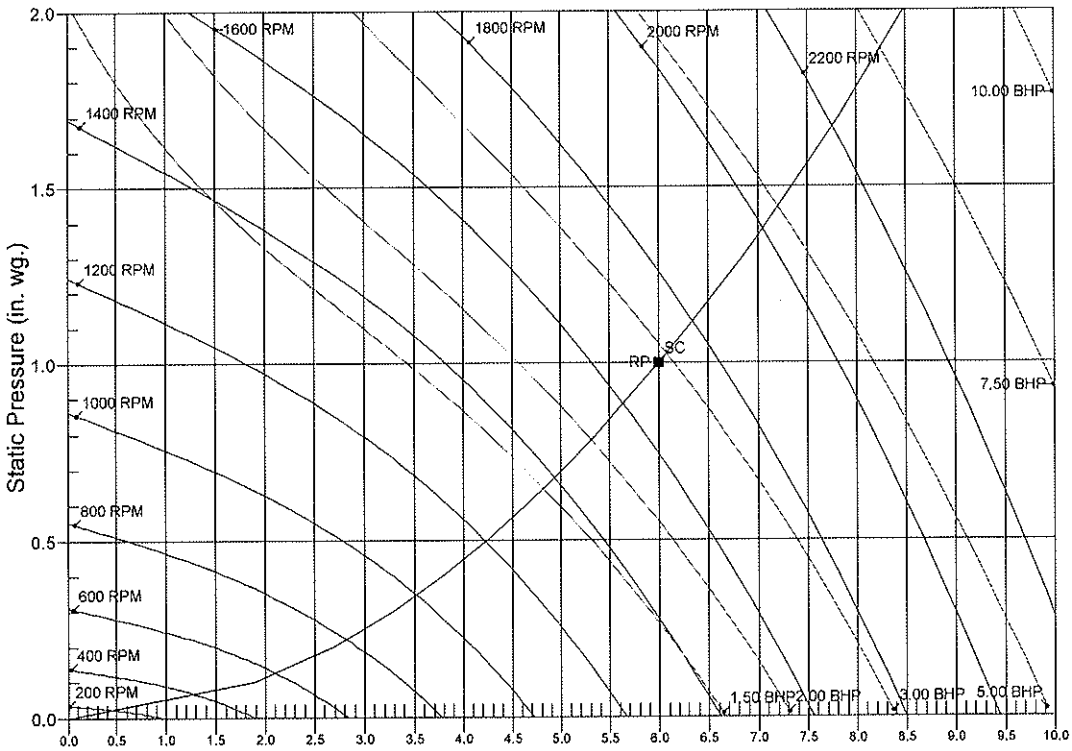
Performance Summary For 17.5

Project:
Prepared By:

Legend
A Sound Power Levels at Unit's Acoustic Center, Lw
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
C Sound Pressure Levels at Specific Distance from Unit, Lp
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

Fan Curve



RPM = 1703 BHP = 2.89 Maximum RPM = 2200 Maximum BHP = 8.10
SC - System Curve RP - Rated Point

Unit Report For 7.5

Project:
Prepared By:

Unit Parameters

Unit Model: **48FEDM08A2M5-0A0A0**
Unit Size: ..... **08 (7.5 Tons)**
Volts-Phase-Hertz: **208-3-60**
Heating Type: ..... **Gas**
Refrigerant: **R-454B**
Heat Control: ..... **Low Gas Heat**
Duct Cfg: ... **Horizontal Supply / Horizontal Return**
DX Options: ..... **Single Circuit, Two Stage Cooling**

Dimensions (ft. in.) & Weight (lb.) ***

Unit Length: ..... **7' 4.125"**
Unit Width: ..... **4' 11.5"**
Unit Height: ..... **3' 5.25"**
Total Operating Weight: ..... **804** lb

*** Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

Gas Line Size: **1/2**
Condensate Drain Line Size: **3/4**
Return Air Filter Type: **Throwaway**
Return Air Filter Quantity: **4**
Return Air Filter Size: **16 x 20 x 2**

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

Standard/Medium Static - EcoBlue Vane Axial Fan
Al/Cu - Al/Cu - Louvered Hail Guards
Electromechanical Controls
Standard Packaging

Warranty Information

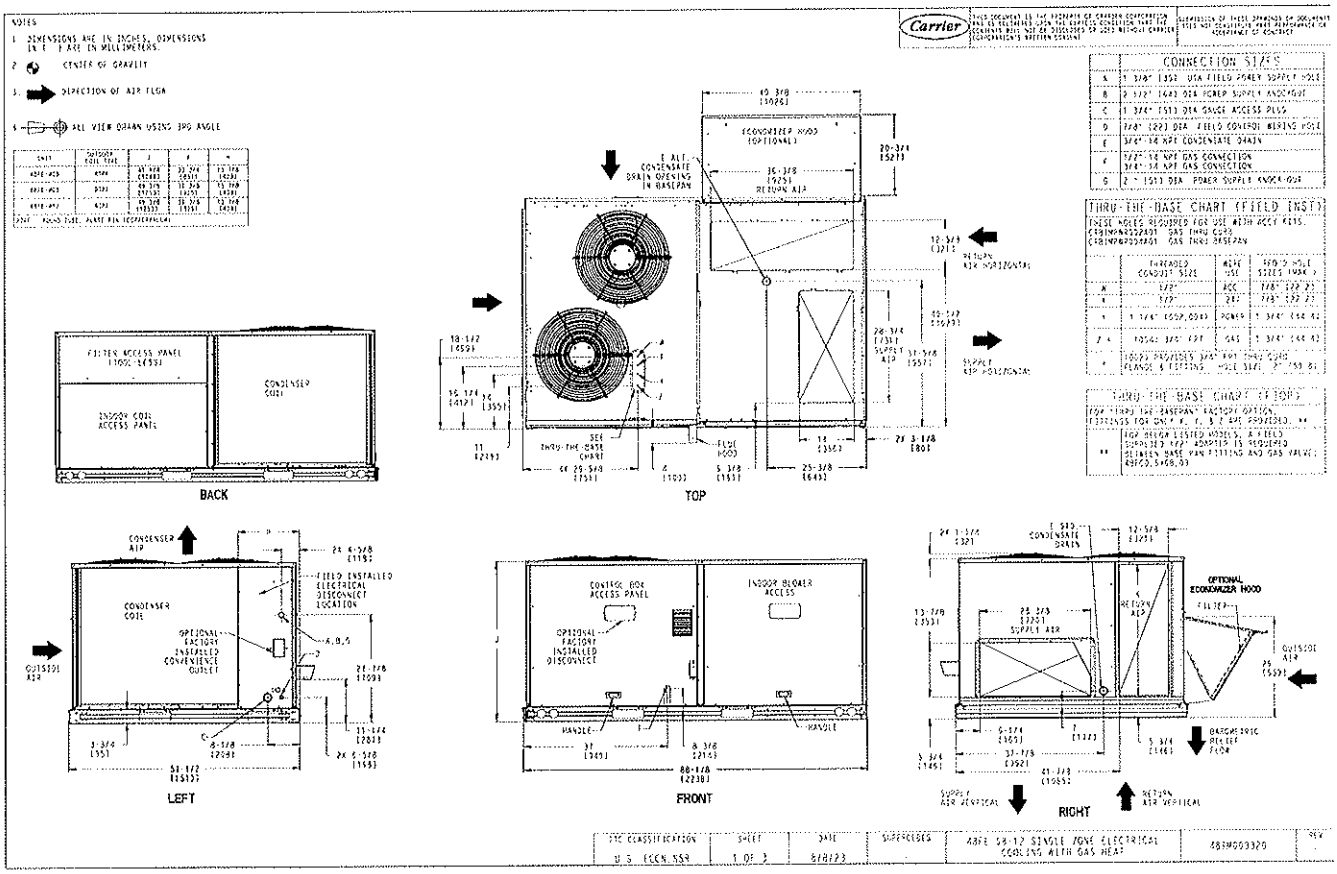
1-Year parts(std.)
5-Year compressor parts(std.)
10-Year heat exchanger - Aluminized(std.)

Ordering Information

Part Number	Description	Quantity
48FEDM08A2M5-0A0A0	Rooftop Unit	1
	Base Unit	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Electromechanical control, No intake or exhaust option. Will allow for use of field installed econom	

Certified Drawing for 7.5

Project:
Prepared By:



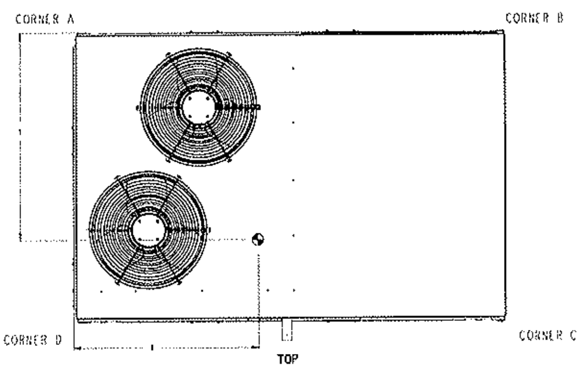
Certified Drawing for 7.5

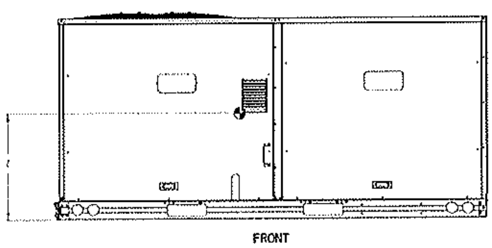
Project:
Prepared By:

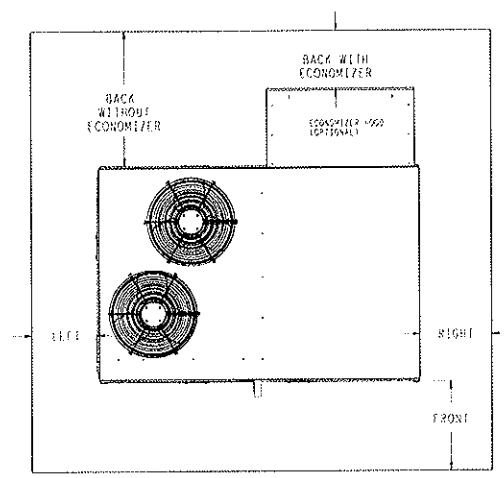
UNIT	OUTDOOR COIL TYPE	STD. UNIT WEIGHT ***		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
48FE-*08	RTPF	781	354	181	82	150	68	207	94	243	110	40 [1015]	34 1/2 [876]	19 3/8 [492]
48FE-*09	RTPF	868	394	197	89	160	73	229	104	282	128	39 1/2 [1003]	35 [889]	18 5/8 [473]
48FE-*12	RTPF	875	397	213	97	175	80	221	100	266	121	39 7/8 [1013]	33 1/4 [841]	18 1/2 [470]

RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)

*** STANDARD UNIT WEIGHT IS WITH LOW GAS HEAT AND WITHOUT PACKAGING
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.







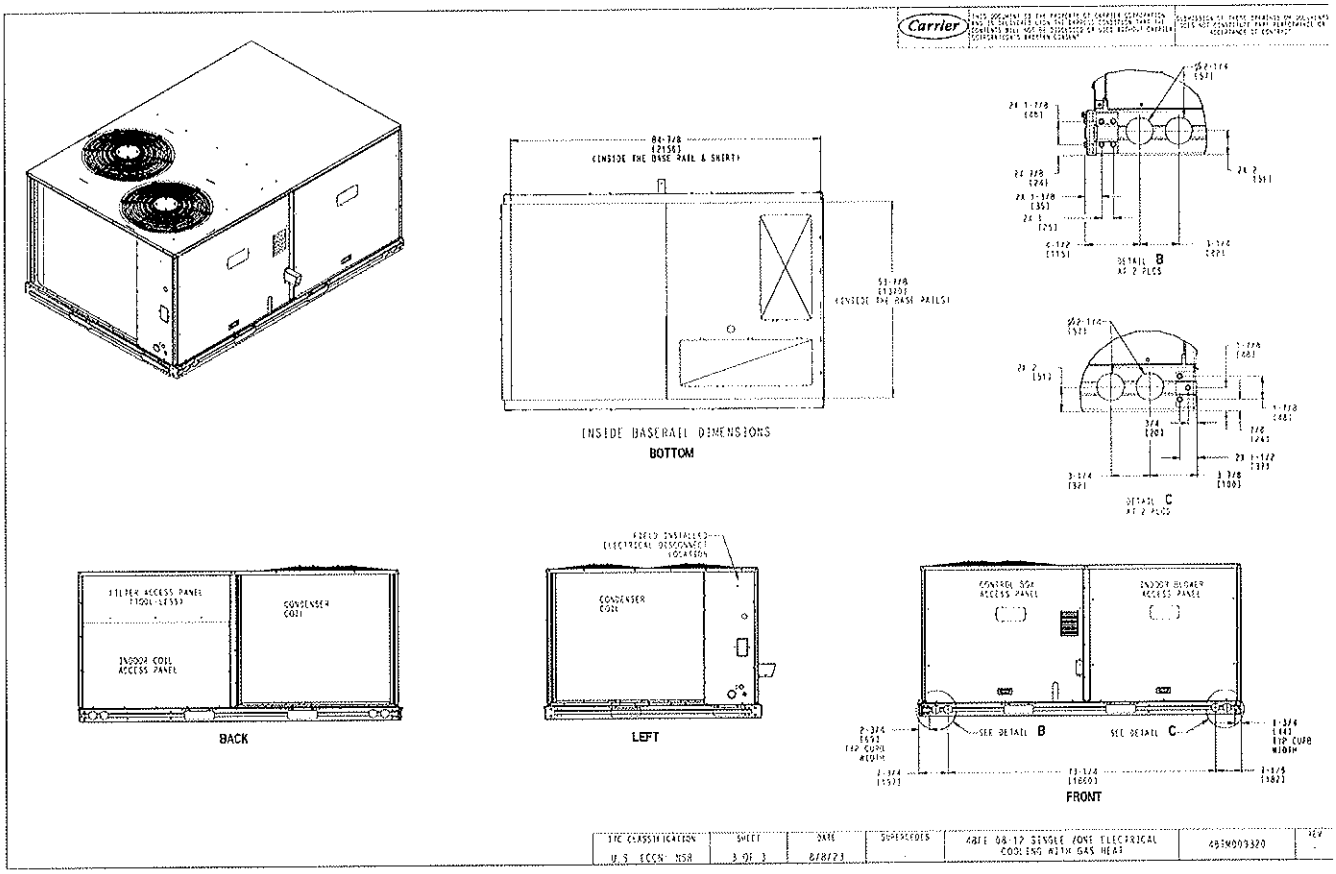
NOTE:
1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

CLEARANCE			
	SERVICE WITH	SERVICE WITH	OPERATING
SURFACE	CONDUCTIVE BARRIER	NONCONDUCTIVE BARRIER	CLEARANCE
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/O ECON	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/ECON	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

ETC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN: NSR	2 OF 3	8/8/23		48FE 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	48TM009320	-

Certified Drawing for 7.5

Project:
Prepared By:



Performance Summary For 7.5

Project:
Prepared By:

Part Number:48FEDM08A2M5-0A0A0

Refrigerant:	R-454B	
ARI EER:	11.20	
IEER:	15.0	

Base Unit Dimensions

Unit Length:	88.1	in
Unit Width:	59.5	in
Unit Height:	41.3	in

Operating Weight

Base Unit Weight:	787	lb
Al/Cu - Al/Cu - Louvered Hail Guards:	17	lb
Total Operating Weight:	804	lb

Unit

Unit Voltage-Phase-Hertz:	208-3-60	
Air Discharge:	Horizontal	
Fan Drive Type:	Vane Axial	
Actual Airflow:	3000	CFM
Site Altitude:	0	ft

Cooling Performance

Condenser Entering Air DB:	95.0	F
Evaporator Entering Air DB:	80.0	F
Evaporator Entering Air WB:	67.0	F
Entering Air Enthalpy:	31.44	BTU/lb
Evaporator Leaving Air DB:	58.0	F
Evaporator Leaving Air WB:	57.2	F
Evaporator Leaving Air Enthalpy:	24.52	BTU/lb
Gross Cooling Capacity:	93.40	MBH
Gross Sensible Capacity:	71.12	MBH
Compressor Power Input:	6.22	kW
Coil Bypass Factor:	0.076	

Heating Performance

Heating Airflow:	3000	CFM
Entering Air Temp:	70.0	F
Leaving Air Temp:	101.8	F
Gas Heating Input Capacity:	125.0	MBH
Gas Heating Output Capacity:	103.0	MBH
Temperature Rise:	31.8	F
Thermal Efficiency (%):	82.0	

Supply Fan

External Static Pressure:	1.00	in wg
Fan RPM:	1600	
Fan Power:	1.52	BHP
NOTE:	Selected IFM RPM Range: 982 - 2000	

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data

Voltage Range:	187 - 253
Compressor #1 RLA:	12.2
Compressor #1 LRA:	120
Compressor #2 RLA:	12.2
Compressor #2 LRA:	120
Indoor Fan Motor Type:	MED

Performance Summary For 7.5

Project:
Prepared By:

Indoor Fan Motor FLA (Total): **6.4**
Combustion Fan Motor FLA (ea): **0.48**
Power Supply MCA: **37**
Power Supply MOCP (Fuse or HACR): **45**
Disconnect Size FLA: **39**
Disconnect Size LRA: **257**
Electrical Convenience Outlet: **None**
Outdoor Fan [Qty / FLA (ea)]: **2 / 1.5**

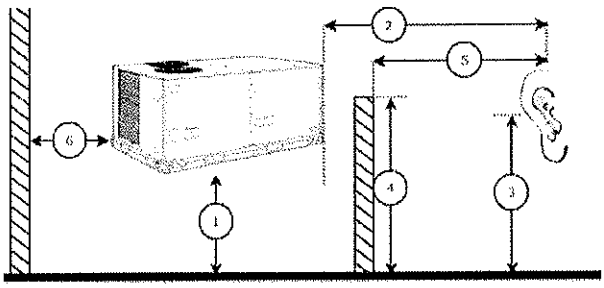
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	87.6	83.2	85.6
125 Hz	83.8	78.2	84.7
250 Hz	77.1	70.8	80.5
500 Hz	74.1	66.7	76.0
1000 Hz	75.7	67.0	72.4
2000 Hz	71.6	60.8	68.0
4000 Hz	67.1	53.4	62.8
8000 Hz	57.8	47.5	59.3
A-Weighted	79.5	71.1	79.0

Advanced Acoustics



Advanced Accoustics Parameters

1. Unit height above ground: **30.0** ft
2. Horizontal distance from unit to receiver: **50.0** ft
3. Receiver height above ground: **5.7** ft
4. Height of obstruction: **0.0** ft
5. Horizontal distance from obstruction to receiver: **0.0** ft
6. Horizontal distance from unit to obstruction: **0.0** ft

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3	89.2 Lw
B	59.4	68.6	71.9	72.8	72.4	69.2	63.8	58.2	78.5 LwA
C	53.2	52.3	48.1	43.6	40.0	35.6	30.4	26.9	56.8 Lp
D	27.0	36.2	39.5	40.4	40.0	36.8	31.4	25.8	46.1 LpA

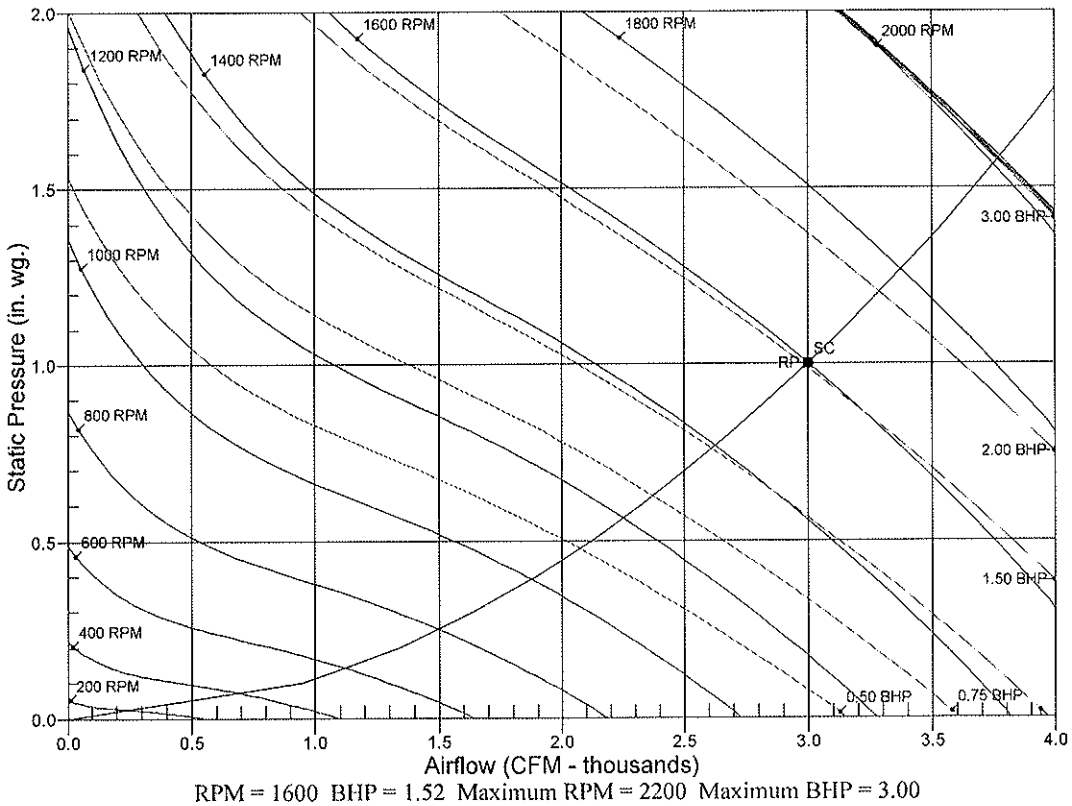
Performance Summary For 7.5

Project:
Prepared By:

Legend
A Sound Power Levels at Unit's Acoustic Center, Lw
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
C Sound Pressure Levels at Specific Distance from Unit, Lp
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

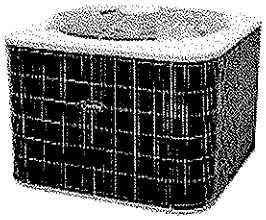
Fan Curve

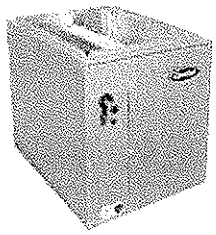


RPM = 1600 BHP = 1.52 Maximum RPM = 2200 Maximum BHP = 3.00
SC - System Curve RP - Rated Point

Unit Report For 5 ton

Project:
Prepared By:





Outdoor Unit Parameters

Unit Model:.....**24ABB**
Unit Size:..... **5 Tons (Size 60)**
Voltage:..... **208/230-3-60** V-Ph-Hz

Indoor Coil Parameters

Unit Model:.....**CAPM**
Unit Size:..... **5 Tons (Size 61)**
Cabinet Finish: ..... **Painted**
Cabinet Width:..... **21 inch**

Outdoor Unit Dimensions and Weight

Unit Length:..... **31.1875** in
Unit Width: ..... **31.1875** in
Unit Height: ..... **28.6875** in
Unit Shipping Weight:..... **230.** lb

Indoor Coil Dimensions and Weight

Unit Length:..... **20.625** in
Unit Width:..... **24.5** in
Unit Height: ..... **35** in
Unit Shipping Weight:..... **98.5** lb

The warranty period is five (5) years on the compressor, and one (1) year on all other parts.

Ordering Information

Part Number	Description	Quantity
Outdoor Unit		
24ABB360A005	24ABB Comfort Series Air Conditioner with Puron Refrigerant 5 Tons Cooling	1
	13 SEER @ ARI Conditions	
	Dense Grille	
Indoor Coil		
CAPMP6121ALA	Multi-Poise A-Coil Evaporator Coil with Puron	1
	Painted	
	21 inch	
	Aluminum Coil	
Furnace		
58SB0B090M21--20	58SB0 Gas Furnace	1
	90,000 Btuh (Size 090)	
	Up to 2000 Clg CFM on Evap Coil	
	MCT ECM	
	21.0 inches	

Furnace Parameters and Dimensions and Weight

Furnace: **SEER Enhancing Furnace**
Furnace Model: **58SB**
Furnace Type: **Standard**
Input Capacity: **90,000 Btuh (Size 090)**
Nominal Clg Size: **Up to 2000 Clg CFM on Evap Coil**
Unit Length: **29.50** in
Unit Width: **21.00** in
Unit Height: **33.33** in
Unit Shipping Weight: **147.** lb

Performance Summary For 5 ton

Project:
Prepared By:

System Performance

System:	**24ABB/CAPM**	
System Quantity:	**1**	
Altitude:	**0.0**	ft
Furnace Type:	**58S(B,C)*B090M21**20**	
Linear Pipe Length:	**0.0**	ft
SEER @ ARI Conditions:	**14.0**	
EER @ ARI Conditions:	**11.5**	
Actual Clg Airflow:	**2000.0**	CFM
Standard Clg Airflow:	**2000.0**	CFM
Total Net Clg Capacity:	**57.76**	MBH
Net Sensible Clg Capacity:	**42.98**	MBH
Total System Power:	**5.06**	kW

System Parameters

Outdoor Unit Parameters

Unit Model:	**24ABB360A005**	
Unit Size (Nominal):	**5 Tons (Size 60)**	
Voltage:	**208/230-3-60**	V-Ph-Hz
Clg Ent Air DB Ambient:	**95.0**	°F

Indoor Coil Parameters

Unit Model:	**CAPMP6121ALA**	
Unit Size (Nominal):	**5 Tons (Size 61)**	
Ent Air DB:	**80.00**	°F
Ent Air WB:	**67.00**	°F
Ent Enthalpy:	**31.44**	BTU/lb
Lvg Air DB:	**60.10**	°F
Lvg Air WB:	**57.98**	°F
Lvg Enthalpy:	**25.02**	BTU/lb
Total External Static Pressure:	**0.50**	in wg

Furnace Ratings

Furnace:	**58SB0B090M21--20**	
Furnace Efficiency:	**80.0**	AFUE
Input High Upflow:	**88,000**	BTU/hr
Output High Upflow:	**71,000**	BTU/hr

Furnace Performance

Certified Temp High Rise Range:	**25-55**	F
Certified ESP for Heat/Cool:	**0.15/0.50**	in wg
Airflow High Heat:	**1645**	CFM

The customer must ensure the specified airflow and static pressure are within furnace capabilities.

Electrical Data

Outdoor Electrical Data

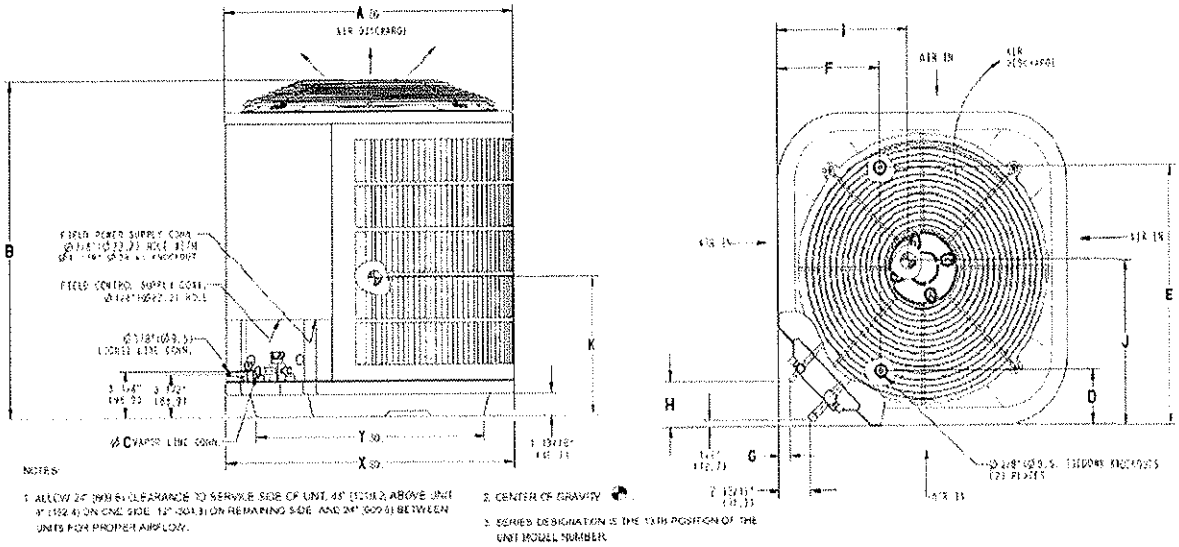
Unit Voltage:	**208/230-3-60**	V-Ph-Hz
Fan Motor FLA:	**1.40**	Amps
MCA:	**21.4**	Amps
Max Fuse:	**30**	Amps
Operating Range Min:	**187**	V
Operating Range Max:	**253**	V
Compressor RLA:	**16.0**	Amps
Compressor LRA:	**110.0**	Amps

Furnace Electrical Data

Unit Voltage:	**115-1-60**	V-Ph-Hz
Unit MCA:	**13.9**	Amps
Unit MOCP:	**20**	Amps

Certified Drawing For 5 ton

Project:
Prepared By:



Outdoor Model

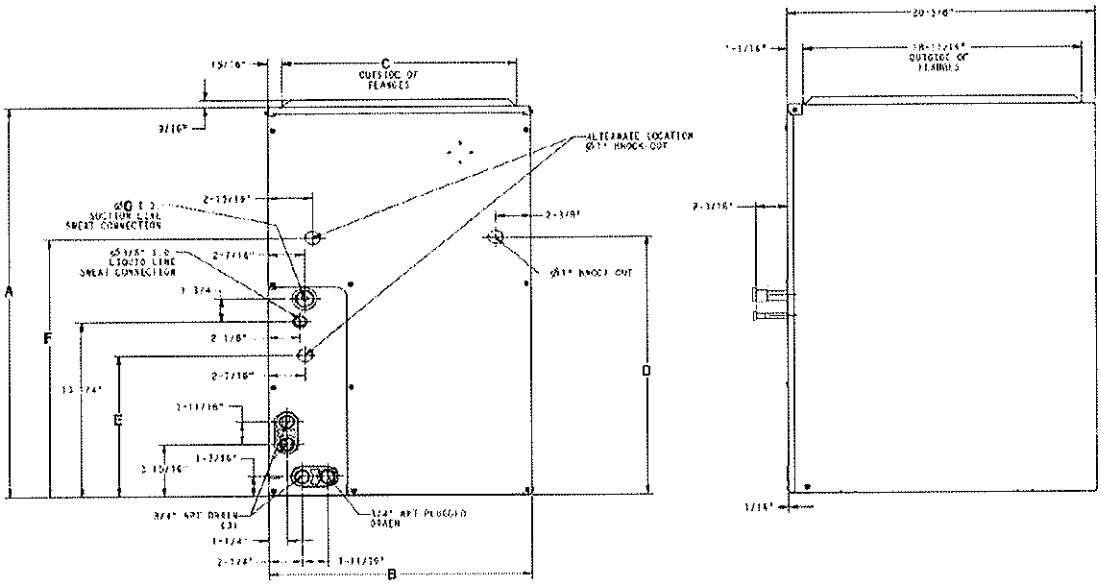
Unit Model:	**24ABB**
Unit Size:	**5 Tons (Size 60)**
Voltage:	**208/230-3-60** V-Ph-Hz
SEER:	**13**
PartNumber:	**24ABB360A005**

Shipping Dimensions and Weights	Outdoor Unit
Height	33.19 in
Width	33.31 in
Length	33.31 in
Operating Weight	198. lb
Shipping Weight	230. lb

Dimensions										
A	B	C	D	E	F	G	H	I	J	K
31.19 in	28.69 in	0.88 in	6.56 in	24.69 in	9.13 in	0.31 in	3.00 in	16.00 in	15.50 in	12.75 in

Certified Drawing For 5 ton

Project:
Prepared By:



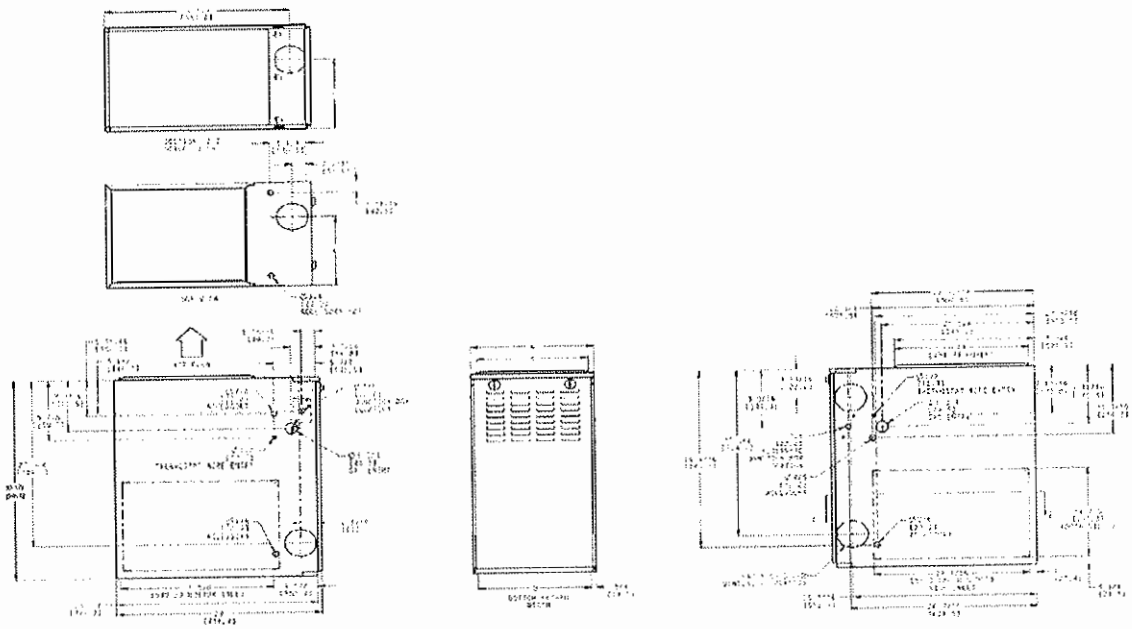
Indoor Coil

Unit Model: **CAPM**
Unit Size: **5 Tons (Size 61)**
Cabinet Finish: **Painted**
Cabinet Width: **21 inch**
PartNumber: **CAPMP6121ALA**

Dimensions and Weights	Indoor Coil
Height	35.00 in
Width	24.50 in
Length	20.63 in
Shipping Weight	98.5 lb

Certified Drawing For 5 ton

Project:
Prepared By:



Furnace Model:..... **58SB**
Furnace Type:..... **Standard**
Input Capacity:..... **90,000 Btuh (Size 090)**

Nominal Clg Size:**Up to 2000 Clg CFM on Evap Coil**
PartNumber:..... **58SB0B090M21--20**

Dimensions						
A	B	C	D	Vent Conn. Size	Filter Cabinet Size	Shipping Wgt
21.00 in	19.38 in	13.31 in	19.50 in	4.00 in	--	147.00 in