Table Of Contents

Project: King and Parks MultiFamily Residences Prepared By: 08/08/2017 10:22AM

RTU-1	2
Unit Report	3
Certified Drawing	4
Performance Summary	10
RTU-2	13
Unit Report	14
Certified Drawing	15
Performance Summary	18
RTU-3	21
Unit Report	22
Certified Drawing	23
Performance Summary	26

RTU-1

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For RTU-1

Project: King and Parks MultiFamily Residences

Prepared By:

08/08/2017 10:22AM

Unit Parameters

Unit Model:	48TCTA07A3A5-0K1A0
Unit Size:	07 (6 Tons)
Volts-Phase-Hertz:	208-3-60
Heating Type:	Gas
Duct Cfg: Vertica	I Supply / Vertical Return
Stainless Steel, High Heat	
Round Tube Plate Fin Coi	ls

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 16 x 2

Unit Configuration

High Static Option (Belt Drive) Al/Cu - Al/Cu Base Electromechanical Controls 2-Position Damper **Unpowered Convenience Outlet** Standard Packaging

Warranty Information

1-Year parts(std.)

5-Year compressor parts(std.)

15-Year heat exchanger - Stainless Steel(std.)

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

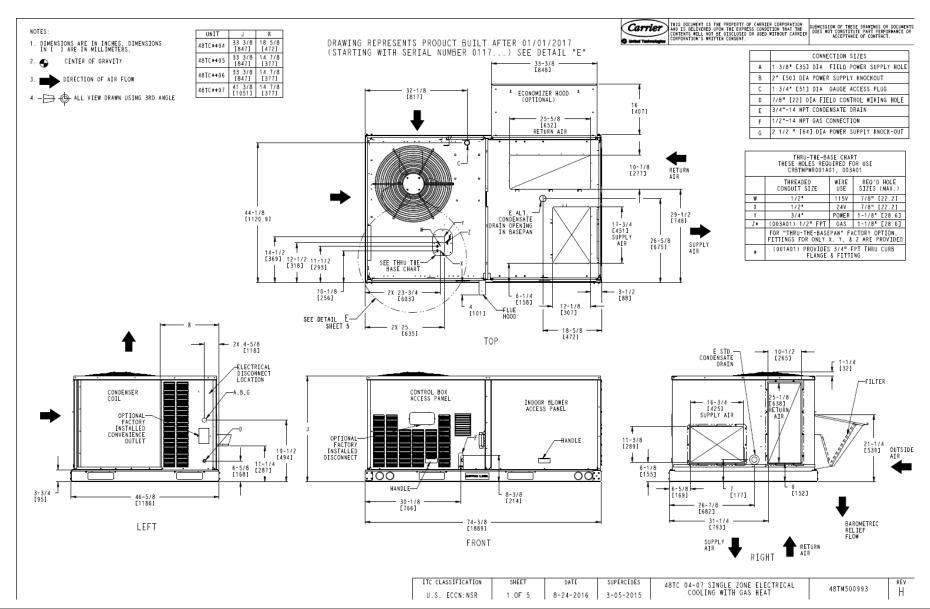
Ordering Information

Part Number	Description	Quantity
48TCTA07A3A5-0K1A0	Rooftop Unit	1
	Base Unit	
	High Static Option (Belt Drive)	
	Unpowered Convenience Outlet	
	2-Position Damper	
	None	

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

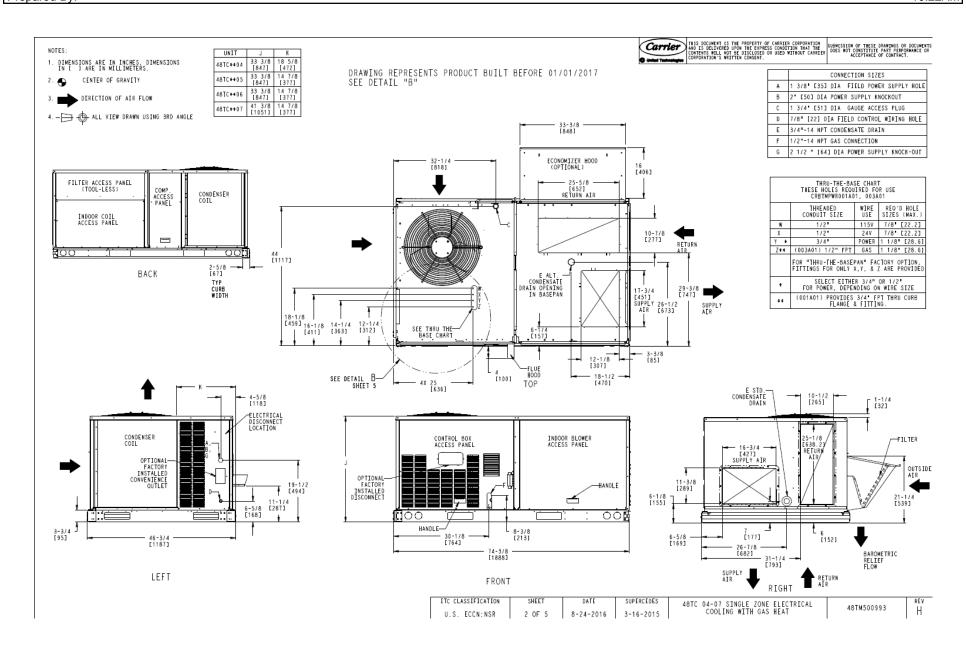
Unit Length: 6' 2.375"	
Unit Width: 3' 8"	
Unit Height: 3' 5.375"	
	lb

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 extends. data catalog.



Packaged Rooftop Builder 1.49 Page 4 of 28

Project: King and Parks MultiFamily Residences Prepared By:

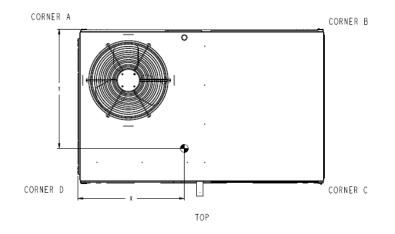


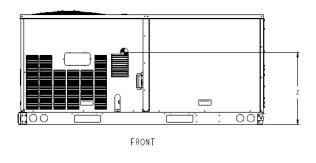
Packaged Rooftop Builder 1.49 Page 5 of 28

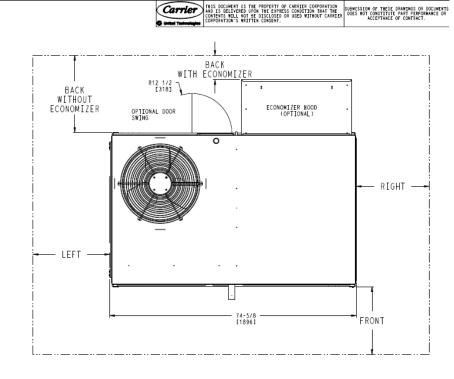
Project: King and Parks MultiFamily Residences Prepared By:

UNIT +	STD. WEI	UNIT GHT	COR WEIGH	NER T (A)	COR WEIGH	NER T (B)	COR WEIGH		COR WE IGH		C.6	i.	HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Υ	Z
48TCDA04	480	218	102	46	117	53	139	63	122	55	39 [991]	25 [635]	16 3/8 [416]
48TCDA05	528	239	127	58	125	57	137	62	139	63	37 [940]	24 [610]	17 [432]
48TCDA06	560	254	126	57	136	62	155	70	144	65	38 [965]	24 [610]	17 1/4 [438]
48TCDA07	652	296	150	68	169	76	176	80	157	71	39 [991]	23 [584]	20 1/8 [511]

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







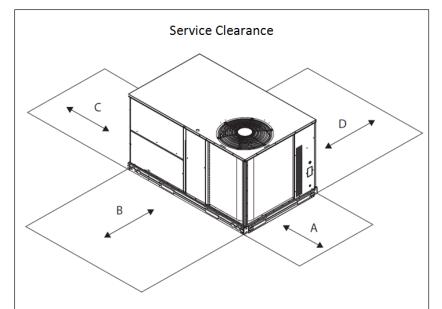
NOTES:

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

1	CLEAR	ANCE	
	SERVICE WITH:	SERVICE WITH:	OPERATING
SURFACE	CONDUCTIVE BARRIER	NONCONDUCTIVE BARR	ER CLEARANCE
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]
SUPERCEDES	48TC 04-07 SINGLE ZONE	ELECTRICAL	REV

ITC CLASSIFICATION SHEET DATE SUPERCEDES 48TC 04-07 SINGLE ZONE ELECTRICAL 48TM500993 HEV
U.S. ECCN:NSR 3 OF 5 8-24-2016 3-16-2015 COOLING WITH GAS HEAT 48TM500993 H

Packaged Rooftop Builder 1.49 Page 6 of 28



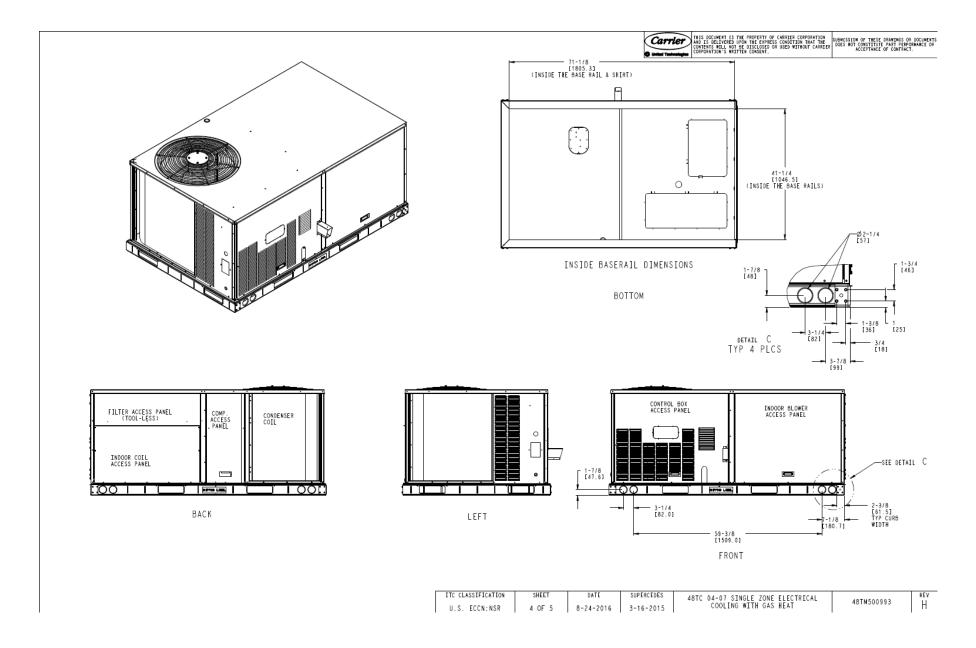
		C08337
LOCATION	DIMENSION	CONDITION
	48-in (1219 mm)	Unit disconnect is mounted on panel
A	18-in (457 mm)	No disconnect, convenience outlet option
A	18-III (457 IIIIII)	Recommended service clearance
	12-in (305 mm)	Minimum clearance
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall)
В	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for sources of flue products within 10- ft. of unit freshair intake hood
С	36-in (914 mm)	Side condensate drain is used
C	18-in (457 mm)	Minimum clearance
	48-in (1219 mm)	No flue discharge accessory installed, surface is combustible material
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall, another unit)
D	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for adjacent units or building fresh air intakes within 10- ft. of this unit's flue outlet

NOTE: Unit not designed to have overhead obstruction. Contact Application Engineering for guidance on any application planning overhead obstruction or vertical clearances.

Chassis 1-2

Packaged Rooftop Builder 1.49 Page 7 of 28

08/08/2017 10:22AM



Packaged Rooftop Builder 1.49 Page 8 of 28

Certified Drawing for RTU-1

Project: King and Parks MultiFamily Residences Prepared By:

08/08/2017 10:22AM



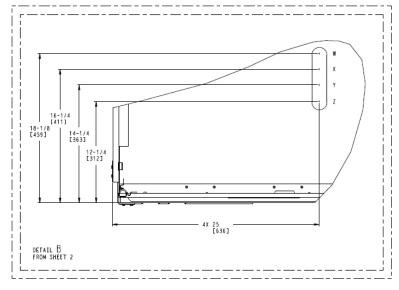
Carrier

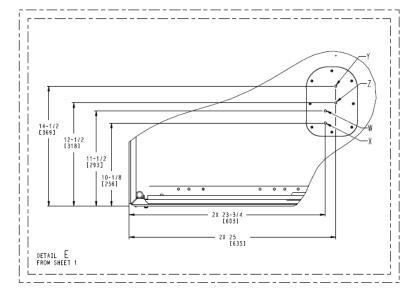
AND 15 DECIMENT IS THE PROPERTY OF CARRIER COMPONATION
AND 15 ICLIVERED WIND THE EMPRESS CONDITION THAT THE
CONTENTS THAT LOT RED TISCORDED ON USED WITHOUT CARRIER

OWNER TRANSPORT
CORPORATION'S WRITTEN CONSENT.

	THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPWR001A01, 003A01										
	THREADED WIRE REO'D HOLE CONDUIT SIZE USE SIZES (MAX.										
W	1/2"	1157	7/8" [22.2]								
Х	1/2"	24V	7/8" [22.2]								
γ.	3/4	POWER	1 1/8 [28.6]								
Z**	(003A01) 1/2" FPT	GAS	1 1/8 [28.6]								
	FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X,Y, & Z ARE PROVIDE										
•	* SELECT EITHER 3/4 OR 1/2 FOR POWER, DEPENDING ON WIRE SIZE										
++	(001A01) PROVIDES FLANGE										

	THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRETMPWR001A01, 003A01									
	THREADED WIRE REG'D HOLE CONDUIT SIZE USE SIZES (MAX.)									
w	1/2"	7/8 [22.2]								
X	1/2	24V	7/8 [22.2]							
Y	3/4"	POWER	1-1/8" [28.6]							
Z*	(003A01) 1/2" FPT	GAS	1-1/8" [28.6]							
	FOR THRU-THE-BASEPAN FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED									
+	(001A01) PROVIDES FLANGE	3/4° F & FITTI								





THIS VIEW REPRESENTS PRODUCT BUILT PRIOR TO 1/1/17

THIS VIEW REPRESENTS PRODUCT BUILT AFTER 1/1/17

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48TC 04-07 SINGLE ZONE ELECTRICAL	4074500000	REV
U.S. ECCN:NSR	5 OF 5	8-24-2016	3-16-2015	COOLING WITH GAS HEAT	48TM500993	H

Packaged Rooftop Builder 1.49 Page 9 of 28

Part Number: 48TCTA07A3A5-0K1A0

ARI EER:		
IEER:	11.2	
Base Unit Dimensions		
Unit Length:	74.4	in
Unit Width:	44.0	in
Unit Height:	41.4	in
Operating Weight		
Base Unit Weight:	652	lb
Stainless Steel, High Heat:		
High Static Option (Belt Drive):		
2-Position Damper:		
Unpowered Convenience Outlet:		
Total Operating Weight:		lb
Unit		
Unit Voltage-Phase-Hertz:	208-3-60	
Air Discharge:		
Fan Drive Type:		
Actual Airflow:		CEM
Site Altitude:		
Cooling Performance		
Condenser Entering Air DB:	95.0	F
Evaporator Entering Air DB:		
Evaporator Entering Air WB:		
Entering Air Enthalpy:		
Evaporator Leaving Air DB:		
Evaporator Leaving Air WB:		
Evaporator Leaving Air Enthalpy:		
Gross Cooling Capacity:		
Gross Sensible Capacity:		
Compressor Power Input:		KVV
Coil Bypass Factor:	0.084	
Heating Performance		
Heating Airflow:		
Entering Air Temp:		
Leaving Air Temp:	116.3	F
Gas Heating Input Capacity:		
Gas Heating Output Capacity:		
Temperature Rise:	46.3	F
Thermal Efficiency (%):	80.0	
Supply Fan		
External Static Pressure:		in wg
Fan RPM:	1603	
Fan Power:	2.44	BHP
NOTE:	Selected IFM RPM Range: 1474 - 1788	
Electrical Data		
Voltage Range:	187 - 253	
Compressor #1 RLA:		
Compressor #1 LRA:		
Indoor Fan Motor Type:		
Indoor Fan Motor FLA:		
Combustion Fan Motor FLA (ea):		
	0.70	

Project: King and Parks MultiFamily Residences

Prepared By:

08/08/2017 10:22AM

Power Supply MCA:	36
Power Supply MOCP (Fuse or HACR):	50
Disconnect Size FLA:	
Disconnect Size LRA:	
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	1 / 1.5
Electrical Data (Units produced on or after 02/09/2015)	
Compressor #1 RLA:	19.6
Compressor #1 LRA: Power Supply MCA:	136
Power Supply MCA:	37
Power Supply MOCP (Fuse or HACR):	50
Disconnect Size FLA:	36
Disconnect Size LRA:	226
Electrical Data (Unit produced on or after May 18, 2015)	
Power Supply MCA:	37
Power Supply MOCP (Fuse or HACR):	50
Disconnect Size FLA:	36
Disconnect Size LRA:	

May 18th and beyond units can be identified by serial number 2115XXXXXXXX and higher

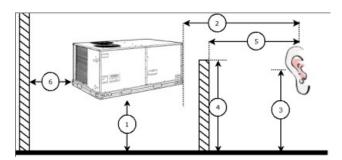
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	91.5	89.7	88.8
125 Hz	86.9	84.1	81.8
250 Hz	81.8	72.6	76.9
500 Hz	77.2	68.3	74.4
1000 Hz	73.3	67.3	73.3
2000 Hz	68.1	62.2	69.8
4000 Hz	69.8	58.0	66.3
8000 Hz	66.0	52.2	62.7
A-Weighted	80.3	73.6	78.0

Advanced Acoustics



Advanced Accoustics Parameters

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

Project: King and Parks MultiFamily Residences

08/08/2017 Prepared By: 10:22AM

6. Horizontal distance from unit to obstruction: 0.0 ft

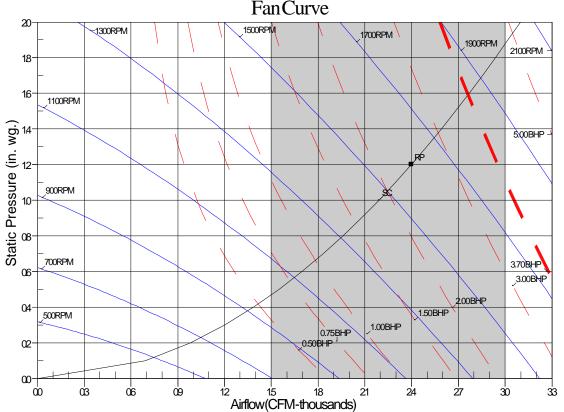
Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	88.88	81.8	76.9	74.4	73.3	69.8	66.3	62.7	90.1 Lw
В	62.6	65.7	68.3	71.2	73.3	71.0	67.3	61.6	78.2 LwA
С	56.4	49.4	44.5	42.0	40.9	37.4	33.9	30.3	57.7 Lp
D	30.2	33.3	35.9	38.8	40.9	38.6	34.9	29.2	45.8 LpA

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.



RPM=1603BHP=2.44MaximumRPM=2100MaximumBHP=3.70 Note: Please contact application engineering for selections outside the shaded region. SC-SystemCurve RP-RatedPoint

RTU-2

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For RTU-2

Project: King and Parks MultiFamily Residences

08/08/2017 Prepared By: 10:22AM

Unit Parameters

48KCTA05A3A3-0A1A0
05 (4 Tons)
208-1-60
Gas
/ertical Supply / Vertical Return
h Heat
ressor Models

Lines and Filters

Return Air Filter Type:	Throwaway
Return Air Filter Quantity	2
Return Air Filter Size:	16 x 25 x 2

Unit Configuration

High Static Option Belt Drive Al/Cu - Al/Cu Base Electromechanical Controls **Unpowered Convenience Outlet** Standard Packaging

Warranty Information

1-Year parts(std.)

5-Year compressor parts(std.)

15-Year heat exchanger - Stainless Steel(std.)

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

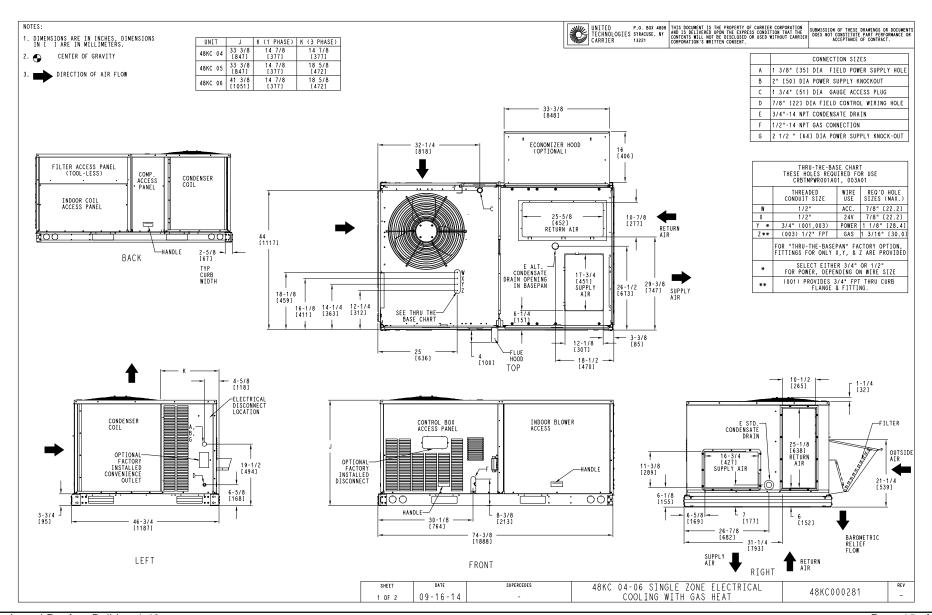
Ordering Information

Part Number	Description	Quantity
48KCTA05A3A3-0A1A0	Rooftop Unit	1
	Base Unit	
	High Static Option Belt Drive	
	Unpowered Convenience Outlet	
	None	
Accessories		
CRTWOPOS010A00	Air Damper	1

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

Unit Length: 6' 2.375"	
Unit Width: 3' 10.75"	
Unit Height: 2' 9.375"	
*** Total Operating Weight: 615	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 extellor. data catalog.

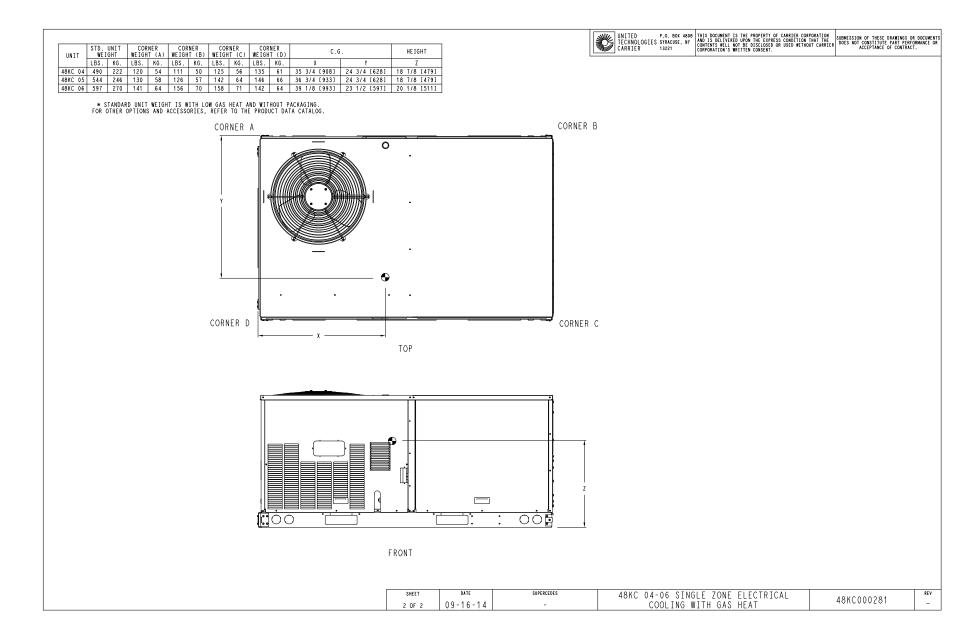


Packaged Rooftop Builder 1.49 Page 15 of 28

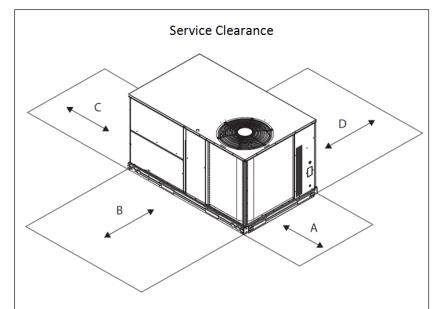
Certified Drawing for RTU-2

Project: King and Parks MultiFamily Residences Prepared By:

08/08/2017 10:22AM



Packaged Rooftop Builder 1.49 Page 16 of 28



		C0833
LOCATION	DIMENSION	CONDITION
	48-in (1219 mm)	Unit disconnect is mounted on panel
Α	18-in (457 mm)	No disconnect, convenience outlet option
	20 111 (107 11111)	Recommended service clearance
	12-in (305 mm)	Minimum clearance
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall)
В	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for sources of flue products within 10- ft. of unit freshair intake hood
С	36-in (914 mm)	Side condensate drain is used
C	18-in (457 mm)	Minimum clearance
	48-in (1219 mm)	No flue discharge accessory installed, surface is combustible material
D	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall, another unit)
	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for adjacent units or building fresh air intakes within 10- ft. of this unit's flue outlet

NOTE: Unit not designed to have overhead obstruction. Contact Application Engineering for guidance on any application planning overhead obstruction or vertical clearances.

Chassis 1-2

Packaged Rooftop Builder 1.49 Page 17 of 28

Part Number: 48KCTA05A3A3-0A1A0

ARI SEER:	
Base Unit Dimensions	
Unit Length: 74.4	in
Unit Width:46.8	in
Unit Height: 33.4	in
Operating Weight	
Base Unit Weight: 544	lb
Stainless Steel, High Heat:17	
High Static Option Belt Drive:10	
Unpowered Convenience Outlet: 5	
Accessories	
Air Damper:39	lb
Total Operating Weight: 615	lb
Unit	
Unit Voltage-Phase-Hertz: 208-1-60	
Air Discharge: Vertical	
Fan Drive Type: Belt	
Actual Airflow: 1300	
Site Altitude:	
Cooling Performance	
Condenser Entering Air DB: 95.0	F
Evaporator Entering Air DB: 90.0	
Evaporator Entering Air WB: 67.0	
Entering Air Enthalpy: 31.36	
Evaporator Leaving Air DB: 58.1	
Evaporator Leaving Air WB: 55.1	
Evaporator Leaving Air VVB	
Gross Cooling Capacity: 47.62	
Gross Sensible Capacity: 44.74	
Compressor Power Input: 3.86	
Coil Bypass Factor: 0.120	
Heating Performance	
Heating Airflow:1300	CEM
Entering Air Temp: 70.0	
Leaving Air Temp: 145.5	
Gas Heating Input Capacity: 130.0	
Gas Heating Output Capacity: 0.0 / 106.0	
Temperature Rise: 75.5	
AFUE (%):	
Thermal Efficiency (%):	
Supply Fan	
Supply Fan External Static Pressure: 1.00	in wa
Fan RPM: 1185	
Fan Power: 0.76	
NOTE: Selected IFM RPM Range: 1035 - 1466	
Electrical Data	
—·····	
Voltage Range: 187 - 253	
Compressor #1 RLA: 21.8	
Compressor #1 LRA:	
Outdoor Fan Motor Qty:	
Outdoor Fan FLA (ea):	

Project: King and Parks MultiFamily Residences

Prepared By:

08/08/2017 10:22AM

Indoor Fan Motor Type:	HIGH
Indoor Fan Motor FLA:	7
Combustion Fan Motor FLA (ea):	
Power Supply MCA:	
Power Supply MOCP (Fuse or HACR):	50
Disconnect Size FLA:	
Disconnect Size LRA:	
Electrical Convenience Outlet:	

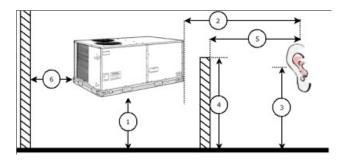
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	86.6	87.2	90.9
125 Hz	80.2	77.5	84.6
250 Hz	70.9	63.3	79.5
500 Hz	66.9	61.9	77.9
1000 Hz	63.4	61.1	76.5
2000 Hz	58.1	55.0	71.1
4000 Hz	59.6	50.2	66.9
8000 Hz	54.4	42.6	62.5
-Weighted	70.9	67.4	81.0

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	90.9	84.6	79.5	77.9	76.5	71.1	66.9	62.5	92.4 Lw
В	64.7	68.5	70.9	74.7	76.5	72.3	67.9	61.4	80.8 LwA
С	58.5	52.2	47.1	45.5	44.1	38.7	34.5	30.1	60.0 Lp
D	32.3	36.1	38.5	42.3	44.1	39.9	35.5	29.0	48.4 LpA

Project: King and Parks MultiFamily Residences

08/08/2017 Prepared By: 10:22AM

Legend

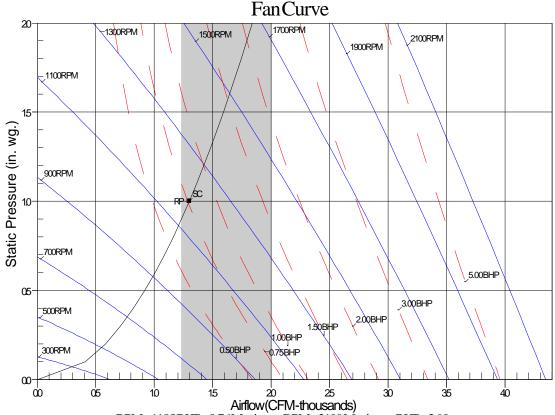
A Sound Power Levels at Unit's Acoustic Center, Lw

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.



RPM=1185BHP=0.76MaximumRPM=2100MaximumBHP=2.90 Note: Please contact application engineering for selections outside the shaded region. SC-SystemCurve RP-RatedPoint

RTU-3

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Report For RTU-3

Project: King and Parks MultiFamily Residences

08/08/2017 Prepared By: 10:22AM

Unit Parameters

Unit Model:	48KCRA04A2A3-0A1A0
Unit Size:	04 (3 Tons)
Volts-Phase-Hertz:	208-1-60
Heating Type:	Gas
Duct Cfg: Vertic	cal Supply / Vertical Return
Stainless Steel, Medium	Heat
Single Stage Compresso	r Models

Lines and Filters

Return Air Filter Type:	Throwaway
Return Air Filter Quantity:	2
Return Air Filter Size:	16 x 25 x 2

Unit Configuration

Medium Static Option Belt Drive Al/Cu - Al/Cu Base Electromechanical Controls **Unpowered Convenience Outlet** Standard Packaging

Warranty Information

1-Year parts(std.)

5-Year compressor parts(std.)

15-Year heat exchanger - Stainless Steel(std.)

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

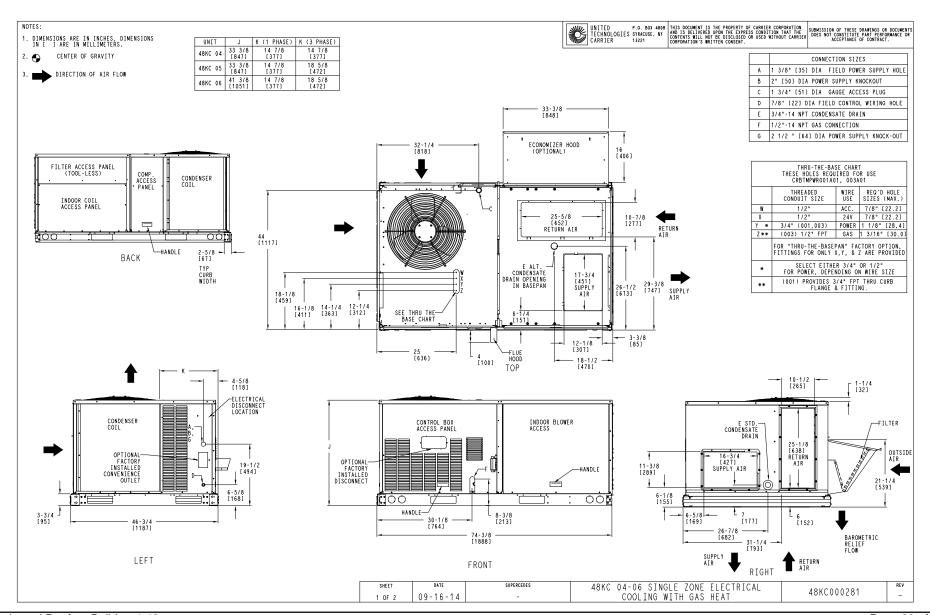
Ordering Information

Part Number	Description	Quantity
48KCRA04A2A3-0A1A0	Rooftop Unit	1
	Base Unit	
	Medium Static Option Belt Drive	
	Unpowered Convenience Outlet	
	None	
Accessories		
CRTWOPOS010A00	Air Damper	1

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

Unit Length: 6' 2.375"	
Unit Width:3' 10.75"	
Unit Height: 2' 9.375"	
*** Total Operating Weight:556	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 extends. data catalog.

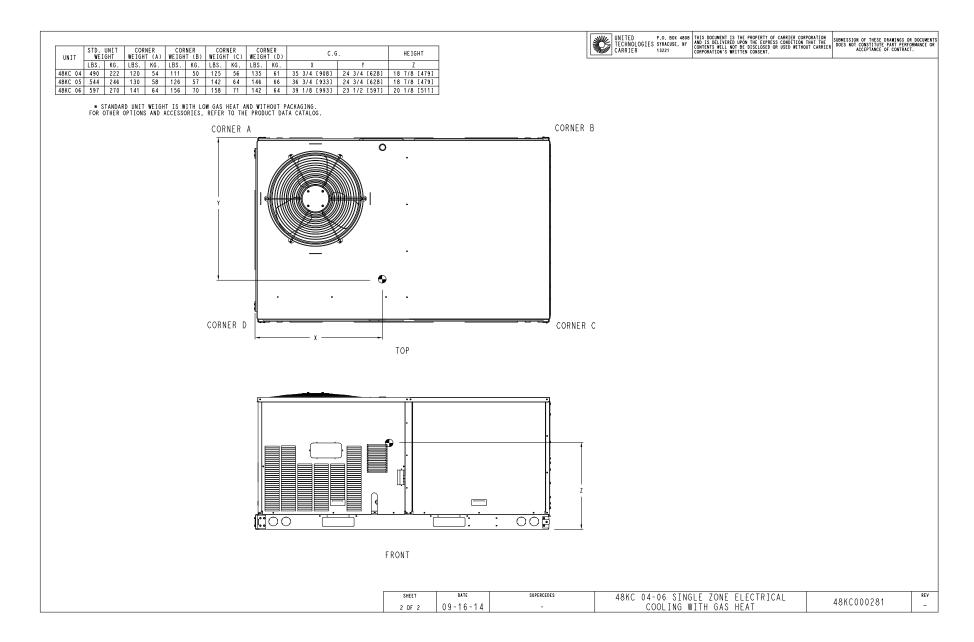


Packaged Rooftop Builder 1.49 Page 23 of 28

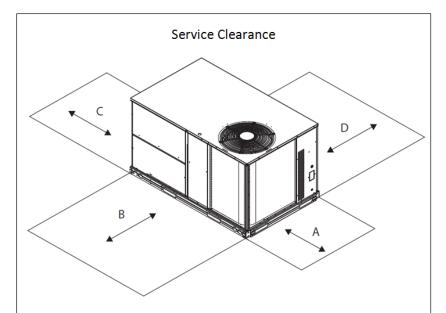
Certified Drawing for RTU-3

Project: King and Parks MultiFamily Residences Prepared By:

08/08/2017 10:22AM



Packaged Rooftop Builder 1.49 Page 24 of 28



		C08337
LOCATION	DIMENSION	CONDITION
	48-in (1219 mm)	Unit disconnect is mounted on panel
A	18-in (457 mm)	No disconnect, convenience outlet option
A	10-111 (437 11111)	Recommended service clearance
	12-in (305 mm)	Minimum clearance
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall)
В	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for sources of flue products within 10- ft. of unit freshair intake hood
С	36-in (914 mm)	Side condensate drain is used
C	18-in (457 mm)	Minimum clearance
	48-in (1219 mm)	No flue discharge accessory installed, surface is combustible material
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall, another unit)
D	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for adjacent units or building fresh air intakes within 10- ft. of this unit's flue outlet

NOTE: Unit not designed to have overhead obstruction. Contact Application Engineering for guidance on any application planning overhead obstruction or vertical clearances.

Chassis 1-2

Packaged Rooftop Builder 1.49 Page 25 of 28

Part Number: 48KCRA04A2A3-0A1A0

ARI SEER:	14.00	
Base Unit Dimensions		
Unit Length:	74.4	in
Unit Width:	46.8	in
Unit Height:		in
Operating Weight		
Base Unit Weight:	490	lb
Stainless Steel, Medium Heat:		
Medium Static Option Belt Drive:	10	lb
Unpowered Convenience Outlet:		
Accessories		
Air Damper:	39	lb
Total Operating Weight:	556	lb
Unit		
Unit Voltage-Phase-Hertz:	208-1-60	
Air Discharge:		
Fan Drive Type:	Belt	
Actual Airflow:		CFM
Site Altitude:		
Cooling Performance		
Condenser Entering Air DB:	95.0	F
Evaporator Entering Air DB:		
Evaporator Entering Air WB:		
Entering Air Enthalpy:		
Evaporator Leaving Air DB:		
Evaporator Leaving Air WB:		
Evaporator Leaving Air Enthalpy:		
Gross Cooling Capacity:		
Gross Sensible Capacity:		
Compressor Power Input:		
Coil Bypass Factor:		
Heating Performance		
Heating Airflow:	900	CFM
Entering Air Temp:		
Leaving Air Temp:		
Gas Heating Input Capacity:		
Gas Heating Output Capacity:	0.0 / 73.5	MBH
Temperature Rise:	75.6	F
AFUE (%):	81.2	
Thermal Efficiency (%):	82.0	
Supply Fan		
External Static Pressure:	0.75	in wg
Fan RPM:	851	•
Fan Power:		BHP
NOTE:		
Electrical Data		
Voltage Range:	187 - 253	
Compressor #1 RLA:		
Compressor #1 LRA:		
Outdoor Fan Motor Qty:		
Outdoor Fan FLA (ea):		

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08/08/2017 Prepared By: 10:22AM

Indoor Fan Motor Type:	MED
Indoor Fan Motor FLA:	4.9
Combustion Fan Motor FLA (ea):	0.48
Power Supply MCA:	
Power Supply MOCP (Fuse or HACR):	40
Disconnect Size FLA:	26
Disconnect Size LRA:	93
Electrical Convenience Outlet:	

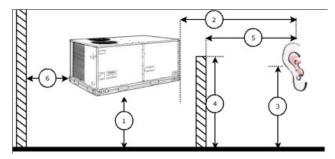
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	83.5	85.7	78.2
125 Hz	75.3	73.0	78.0
250 Hz	63.7	58.0	74.2
500 Hz	60.5	58.2	73.3
1000 Hz	57.0	57.9	70.6
2000 Hz	51.9	51.9	66.0
4000 Hz	52.7	46.6	62.4
8000 Hz	46.5	37.9	56.9
-Weighted	65.0	64.3	76.0

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	78.2	78.0	74.2	73.3	70.6	66.0	62.4	56.9	82.9 Lw
В	52.0	61.9	65.6	70.1	70.6	67.2	63.4	55.8	75.4 LwA
C	45.8	45.6	41.8	40.9	38.2	33.6	30.0	24.5	50.5 Lp
D	19.6	29.5	33.2	37.7	38.2	34.8	31.0	23.4	43.0 LpA

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08/08/2017 Prepared By: 10:22AM

Legend

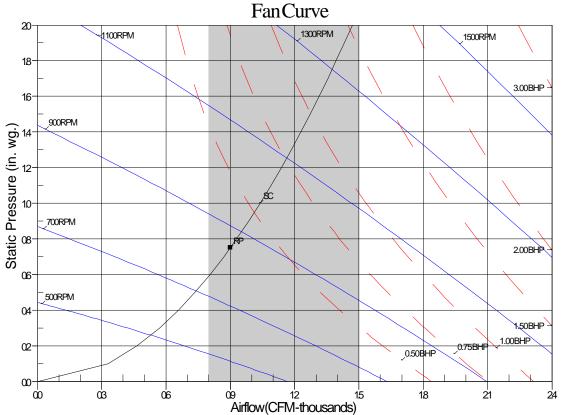
A Sound Power Levels at Unit's Acoustic Center, Lw

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.



RPM=851BHP=0.35MaximumRPM=2100MaximumBHP=2.90 Note: Please contact application engineering for selections outside the shaded region. SC-SystemCurve RP-RatedPoint