Unit Report For 30 Ton

Shipping Dimensions

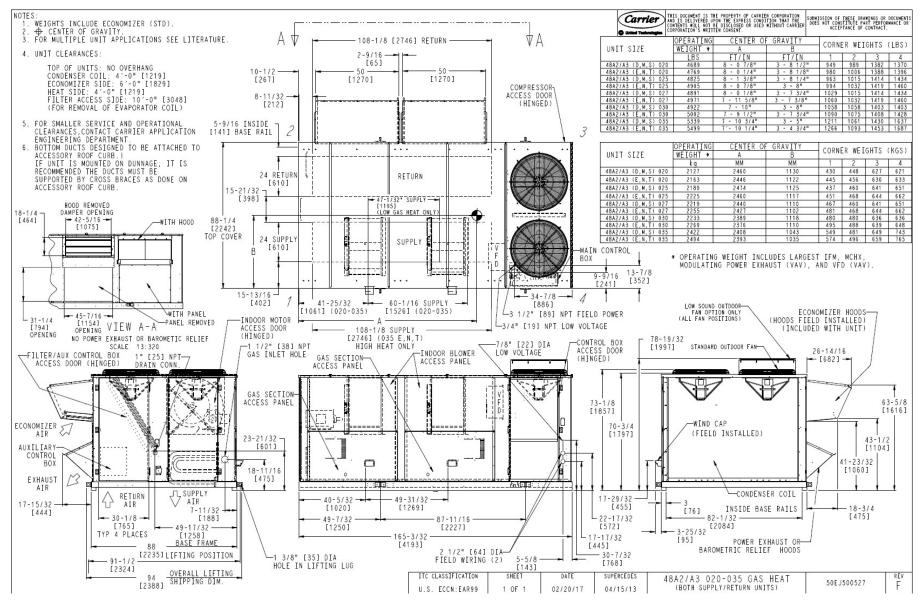
Office Farameters	Shipping Dimensions
Unit Size:030 (30 Tons)	Unit Length: 13' 9"
Volts-Phase-Hertz: 460-3-60	Unit Length: 13' 9" Unit Width: 7' 10"
Volts-Phase-Hertz: 460-3-60 Supply / Return: Vertical/Vertical	Unit Height: 6' 1"
Configuration:Staged Air Volume	
Evaporator Coil Type:Standard	Unit Operating Weight:4692 lb
Heating Capacity:High Gas Heat	Unit Shipping Weight:4730 lb
Heat Option:2 Stage	***Weights and Dimensions are approximate. Weight does not
Greenspeed:Selected	include curbs and accessories. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions refer to certified drawings. ** Shipping Weight does not include extended leadtime options' weight.
Factory Installed Options Application Type:	Staged Air Volume
''	-
Exhaust/Outdoor Air	
OA Intake/Return:	Non-Modulating Power Exhaust
Outdoor Air Intake:	Differential Dry-Bulb Ultra Low Leak Economizer
Supply Fan	
Supply Fan Type:	Forward Curve
Supply Fan Motor HP:	
Condenser Coil	MOUN Orand AllOn France
Cond. Coil Fin Coating:	MCHX Cond, Al/Cu Evap
Mixed-Air and Outdoor Air Filters	
Mixed-Air Filter Type:	Standard Efficiency Throwaway
Mixed-Air Filter (Quantity) Size	(10) 20 x 24 x 2
Mixed-Air Filter (Quantity) SizeOutdoor Air Filter (Cleanable Mesh)	(8) 16 x 25 x 2, (4) 20 x 25 x 2
Warranty Information	
First Year - Parts Only (Standard)	
Start-up, First Unit	
Complete Unit 1st Year Carrier CCS Labor	
Compressor Years 2-5 Parts Only	
Compressor rears 2-0 rants Only	

An uncoated Novation condenser coil was selected for this product. This is based on an installed location with postal code:

Unit Parameters

60192 and a non-corrosive localized environment.

Certified Drawing for 30 Ton



Performance Summary For 30 Ton

Part Number:	48A6E030-PG651GG
Unit Refrigerant:	R410A
EER (AHRI 340/360):	
IEER (AHRI 340/360):	14.0
Unit Dimensions	
Unit Length:	13' 9"
Unit Width:	7' 10"
Unit Height:	
Unit Operating Weight:	4692 lb
Unit Shipping Weight:	4730 lb
*Unit operating weight does not include accessories weight.	
Unit	
Heating Type:	Gas Heat
Supply/Return:	Vertical/Vertical
Application Type:	Staged Air Volume
Voltage:	460-3-60
Cooling Airflow:	11000 CFM
Altitude:	_0 ft
Cond. Ent. Air Temp:	95.0 F
Ent. Air Dry Bulb:	
Ent. Air Wet Bulb:	
Ent. Air Enthalpy:	31.44 BTU
Lvg. Air Dry Bulb:	58.4 F
Lvg. Air Wet Bulb:	57.3 F
Lvg. Air Enthalpy:	24.57 BTU/lb
Gross Cooling Capacity:	339.80 MBH
Gross Sensible Clg. Cap:	256.57 MBH
Compressor Power:	25.9 kW
Coil Bypass Factor:	0.143
Refrigerant Charge, Circuit A:	_15.1 lb
Refrigerant Charge, Circuit B:	15.3 lb
Part Load(%) Operation	
Cooling Capacity Steps	25,50,75,100
Gas Heating Data:	
Heating Airflow:	11000 CFM
Heating Ent. Air Temp:	68.0 F
Gas Input:	394 / 525 MBH
Number of Heating Steps	2
Gas input (Min):	394 IVIBR
Gas Input (Max):	
Gas Output:	425.25 MBH
Heating Lvg. Air Temp:	
Steady State Eff	81
Temp.Rise:	35.8 F
Supply Fan Information:	
Ext.Static Pressure:	1.50 in w
Selection Static Pressure:	1.50 in w
Supply Fan RPM:	908 *
Supply Fan BHP:	
Supply Fan Motor HP:	15 HP
Field supplied and installed sheave package may be required	
Power Exhaust Information:	
Airflow:	5500 CFN

Selection Static Pressure:_______1.03 in wg

Electrical Data

Voltage Range:	414 - 508
Compressor #A1 RLA:	11.2
Compressor #A1 LRA:	75
Compressor #A2 RLA:	11.2
Compressor #A2 LRA:	75
Compressor #B1 RLA:	11.2
Compressor #B1 LRA:	75
Compressor #B2 RLA:	11.2
Compressor #B2 LRA:	75
Indoor Fan Motor HP	15
Indoor Fan Motor FLA:	21
Combustion Fan Quantity	2
Combustion Fan FLA (ea.):	1.1
Pwr. Exhaust Fan Motor Qty	4
Pwr. Exhaust Fan Motor FLA (ea.):	3.15
Power Supply MCA:	90
Power Supply MOCP (Fuse or HACR)	110
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	2 / 3.3

SCCR, Short Circuit Current Rating: 5kA

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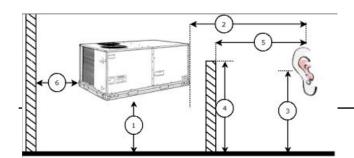
Acoustic Information

Discharge, Lw	Inlet, Lw	Outdoor, Lw
92.0	88.9	63.9
84.7	79.1	72.2
81.4	75.8	78.9
82.5	71.5	82.1
83.2	73.0	84.1
80.3	68.9	78.8
76.4	67.4	72.5
69.8	62.8	64.6
	92.0 84.7 81.4 82.5 83.2 80.3 76.4	92.0 88.9 84.7 79.1 81.4 75.8 82.5 71.5 83.2 73.0 80.3 68.9 76.4 67.4

Discharge / Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.

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.

Advanced Acoustics



Advanced Accoustics Parameters

 Unit height above ground 	d:	30.0	fl
2. Horizontal distance from		50.0	fl
3. Receiver height above of	round:	5.7	fl

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	63.9	72.2	78.9	82.1	84.1	78.8	72.5	64.6	87.9 Lw
В	37.7	56.1	70.3	78.9	84.1	80.0	73.5	63.5	86.7 LwA
C	30.6	38.9	45.6	48.8	50.8	45.5	39.2	31.3	54.5 Lp
D	4.4	22.8	37.0	45.6	50.8	46.7	40.2	30.2	53.4 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