

SUBMITTAL DATA

Project: Unitil –Northern Utilities, Inc. Fit-Up

Mechanical Engineer: Bennett Engineering

Mechanical Contractor: Atlantic Comfort Systems

Date: May 7, 2015

Product: Packaged Rooftop Unit

Specification Section: 230000

Revision: 00

Tag	Qty	Model / Description	Manufacturer
HVAC-1	1	DCG090/ 7.5 Ton Gas/Elec RTU	Daikin Applied

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Technical Data Sheet for HVAC-1

Job Information		Technical Data Sheet
Job Name	Unitil	
Date	5/7/2015	
Submitted By	Bruce Briggs	
Software Version	05.10	
Unit Tag	HVAC-1	



Unit Overview					
Model Number	Voltage	Design Cooling Capacity	AHRI 360 Standard Efficiency		ASHRAE 90.1
			EER	IEER	
DCG090	460/60/3	88000 Btu/hr	11.3	11.5	2010 Compliant

Unit	
Model Number:	DCG090
Model Type:	Cooling, Standard Efficiency
Heat Type:	Natural gas heat
Application:	Constant volume
Altitude:	0 ft
Sound Power:	82 db
Approval	cETLus

Physical				
Unit Dimensions and Weights				
Unit Length	Unit Height	Unit Width	Operating Weight	Shipping Weight
99.1 in	52.9 in	61.8 in	1100 lb	1100 lb
Exterior:	Galvanized Steel with UV-Resistant Paint	Liners:	Single wall construction	
Insulation:	1/2 in Foil Faced Fiberglass	Drain Pan Material	Sloped Painted Galvanized	
Unit Electrical Data				
Voltage	SCCR	MCA	MROPD	
460/60/3 v	5 kAIC	19.2 A	25 A	

Return/Outside/Exhaust Air			
Outside Air Option			
Type	Damper		
Factory Installed Econ, vertical return	Parallel Blade		
Draw Through Filters			
Size	Face Area ft ²	Face Velocity ft/min	Air Pressure Drop
2 In	8.9	337	Included in Fan Performance

Cooling Coil						
Fins per Inch	Rows	Face Area ft ²	Face Velocity ft/min	Air Pressure drop inH ₂ O		
12	4	9.0	333	Included In Fan Performance		
Cooling Performance						
Total Capacity Btu/hr	Sensible Capacity Btu/hr	Entering Air Temperature		Leaving Air Temperature		Ambient Air Temp °F
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	
88000	65120	80.0	67.0	59.9	57.8	95.0

Technical Data Sheet for HVAC-1

Gas Heat Section

Type	Material	Gas Type	Ignition	Combustion Blower	Heat Stages
	Stainless steel	Natural Gas	Electric	PSC Induced motor	2 Stage
Heating Performance					
Input Size	Total Capacity	Steady State Efficiency	Entering Air Dry Bulb	Leaving Air Dry Bulb	
210 MBH	168000 Btu/hr	80%	60.0 °F	111.6 °F	

Condensing Section

Compressor					
Type	Quantity	Capacity Control	Refrigerant Type		
Scroll	2	2 Stage	R410A		
Compressor Amps:					
Compressor 1			6.1 A		
Compressor 2			6.1 A		
Condenser Coil					
Type	Fins Per Inch	Rows	Fin Material		
Copper tube	27	2	Aluminum		
Condenser Fan Motors					
Number of Motors			Full Load Current		
2			0.8 A		
AHRI 360 Certified Data at AHRI 360 Standard Conditions					
Net Capacity	Efficiency		ASHRAE 90.1		
88000 Btu/hr	11.3 EER		11.5 IEER		2010 Compliant

Internal Static Pressure Drop Calculation

External Static Pressure:	0.75 inH ₂ O
Wet Coil Pressure add:	0.07 inH ₂ O
Filter:	0.06 inH ₂ O
Economizer:	0.32 inH ₂ O
Total Static Pressure:	1.20 inH₂O

Options

Electrical	
Field Connection:	Non-Fused Disc Sw, Field powered 115V GFI outlet
Power Options:	None
Controls	
Temperature Controls:	Electromechanical Controls

Warranty

Entire Unit:	5 Year Entire Unit Parts Only Warranty. No Labor Included by Daikin or Briggs Equipment Sales, Inc.
Compressor Warranty:	5 Year Compressor Parts Only Warranty. No Labor Included by Daikin or Briggs Equipment Sales, Inc.
Heat Exchanger Warranty:	25 Year Heat Exchanger Parts Only Warranty. No Labor Included by Daikin or Briggs Equipment Sales, Inc.

Technical Data Sheet for HVAC-1

AHRI Certification



All equipment is rated and certified in accordance with AHRI 340/360

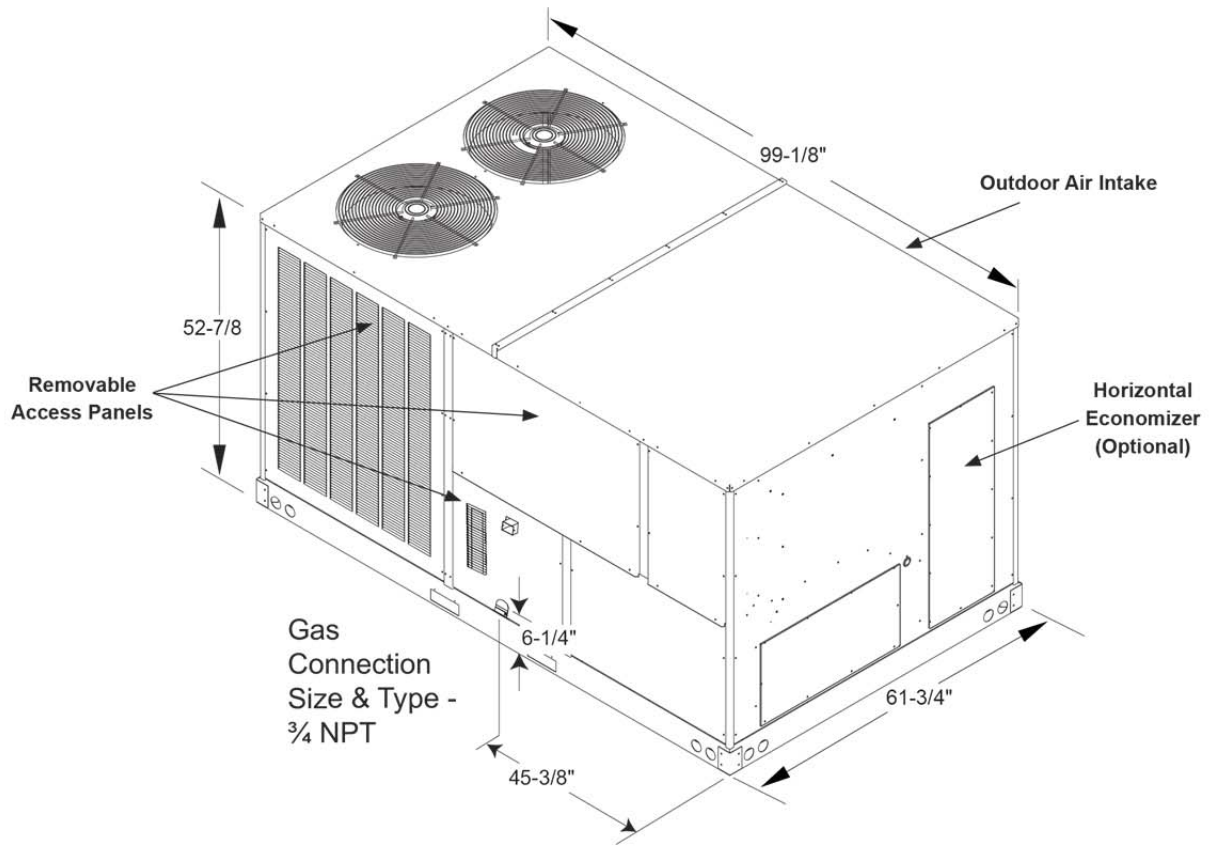
Notes

As a standalone component, unit meets or exceeds the requirements of ASHRAE 90.1.2010. The approving authority is responsible for compliance of multi-component building systems.

Accessories

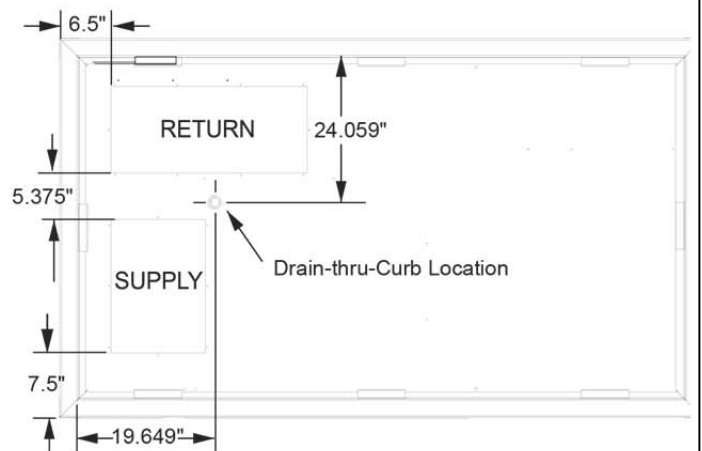
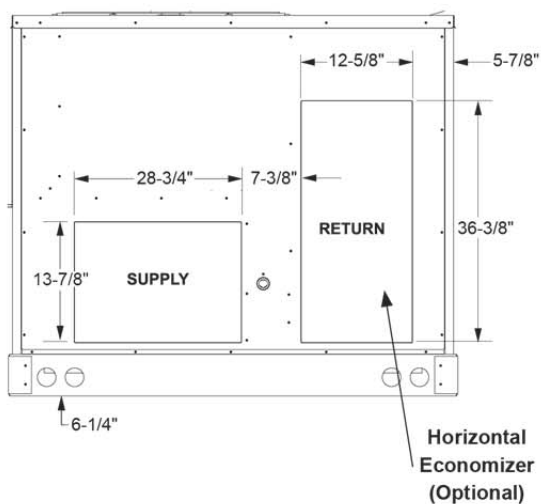
Part Number	Description
HSKT090	High-Static Kit 230-460v
14CURB90150	Roof Curb 14" Tall


DCG-07_Drawing for HVAC-1

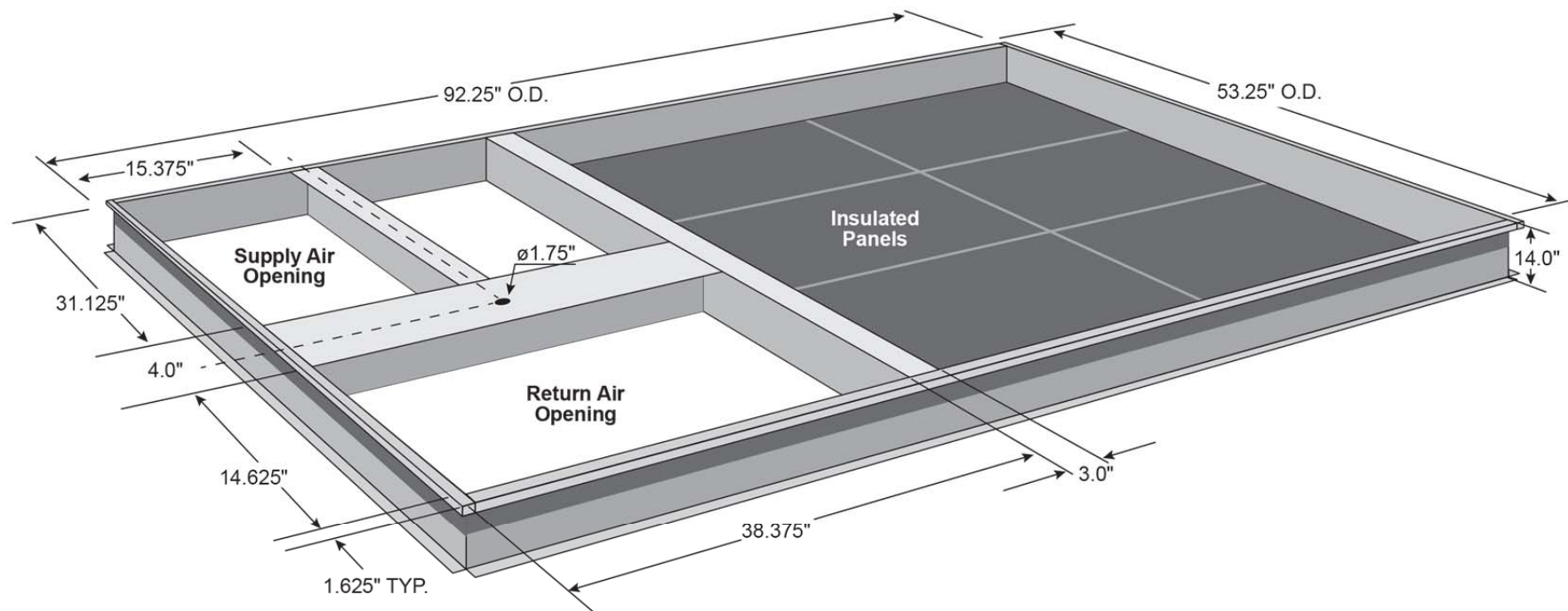


Horizontal Discharge

Vertical Discharge Bottom View




Product Drawing		Unit Tag: HVAC-1		 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.10		
Product:		Project Name: Unitil				
Model: DCG090		Sales Office: Briggs Equipment Sales		Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in [mm]
Sales Engineer:		May 07, 2015	Ver/Rev:	Sheet 1 of 1		
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						



Specifications

- 14" tall
- 18 gauge construction
- Bed rail style corners
- 1x4 wood nailer
- Gasket included
- Shipped knocked-down with all hardware
- Weighs 95 lbs.

NOTE: Outside duct dimension should be 1/2" less than the opening dimensions above

Product Drawing		Unit Tag: HVAC-1		Sales Office: Briggs Equipment Sales			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.10
Product:		Project Name: Unitil		Sales Engineer:			
Model: DCG090		May 07, 2015	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	
					Dwg Units: in [mm]		
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