Inspections Division
Date: 06/14/17

BRIGGS
EQUIPMENT SALES, INC.

16 NorthBrook Drive / PO Box 1375
Gray, ME 04039
207-657-7123 www.briggsac.com

SUBMITTAL DATA

Project:	**David's Restaurant**
Mechanical Contractor:	**Maine Heating and Cooling**
Date:	**April 26, 2017**
Product:	**Vertical Water Source Heat Pumps**
Specification Section:	**Replacements**
Revision:	**0**

Tag	Qty	Model / Description	Manufacturer
8 Ton	1	WLVC1096/ Vertical WSHP	Daikin Applied
10 Ton	1	WLVC1120 / Vertical WSHP	Daikin Applied

Please confirm voltage and unit handing/configuration.

Prepared by:
Ann Marie Juliano
ajuliano@briggsac.com
207-657-7123 ext. 202

DAIKIN APPLIED
An Authorized Representative for Northern New England

ENFINITY™ Heat Pump

Inspections Division
Date: 06/14/17

Job Information — *Technical Data Sheet*

Job Name	Davids Restaurant
Date	04/26/2017
Submitted By	Ann Marie Juliano
Software Version	04.70
Unit Tag	8 ton

Unit Overview

Model Number	Voltage V/Hz/Phase	Air Flow CFM	Fluid Flow gpm	Cooling Capacity Btu/hr	Cooling Efficiency EER @ design	Heating Capacity Btu/hr	Heating Efficiency COP @ design
WLVC1096	208/60/3	3000	24.00	87138	13.18	106851	4.77

Unit

Model Number:	WLVC1096
Unit Type:	Large Vertical, Standard Range
Unit Construction:	Fiberglass Insulation
Approval:	ETL, CETL, ARI

Refrigerant Type	Refrigerant Weight
R-410A	60.0 oz

Unit Performance

Air & Water Flow

Airflow	Total External Static Pressure	Fluid Flow	Fluid Type	Fluid Pressure Drop
3000 CFM	0.37 inH_2O	24.00 gpm / 3.00 gpm/ton	Water	22.18 ft H_2O

Cooling Performance

Fluid Temperature Entering °F	Fluid Temperature Leaving °F	Air Temperature Entering Dry Bulb °F	Air Temperature Entering Wet Bulb °F	Air Temperature Leaving Dry Bulb °F	Air Temperature Leaving Wet Bulb °F	Capacity Total Btu/hr	Capacity Sensible Btu/hr	Heat of Rejection Btu/hr	EER @ design
85.0	94.1	80.0	67.0	60.5	57.5	87138	61960	109704	13.18

Heating Performance

Fluid Temperature Entering °F	Fluid Temperature Leaving °F	Air Temperature Entering Dry Bulb °F	Air Temperature Leaving Dry Bulb °F	Capacity Total Btu/hr	Heat of Absorption Btu/hr	COP @ design
70.0	63.0	70.0	103.0	106851	84448	4.77

Electrical

Unit Voltage	Minimum Voltage	Total Unit MCA	Total Unit Full Load Current
208/60/3	187 V	35.80 A	32.40 A

Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
13.70 A	83.1 A	5.00 A	45 A

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Physical

Unit						
Length	Height	Width	Weight		Connections	
			Shipping	Operating	Water, FPT	Condensate, FPT
28.00 in	55.75 in	54.62 in	620 lb	588 lb	1.25	1.00 in

Cabinet		
Construction Type	Piping Hand	Condensate Drain Pan
Standard 1/2" Fiberglass	Right Side Pipe Connections	Galvanized Steel

Fan				Controls
Type	Motor		Drive	Type
	Type	Horsepower	Type	
DWDI FC	Belt Drive - Integral HP Motor	1.500 hp	Belt	Microtech III Base Controller

Airstream		
Air		Filter
Discharge	Return	(Quantity) Height x Width x Depth
Upblast Front	Front	(4) 25 in x 16 in x 2 in

Options

Heating	
Heat Exchanger:	Copper Inner Tube / Steel Outer Tube
Filter Options	
Filter Options:	2" 4-Sided, MERV 8 filter
Controls	
Control Transformer:	75VA Control Transformer
Condensate Overflow:	Sensor

Warranty

Entire Unit:	One Year Entire Unit Parts Only Warranty, Not to Exceed 18 Months from Shipment
OPTIONAL EXTENDED:	Four Year Extended, Five Year Total Entire Unit Parts Only Warranty

AHRI Certification

All equipment is rated and certified in accordance with AHRI / ISO 13256-1 and tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada.

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Certified Drawing	LVC-LVW-096 Specs Date:
The Water Source Heat Pump product represented on this document will conform to the drawings and specifications set out below, in accordance with the express, written Limited Warranty. Purchaser's acceptance of this drawing certifies that the conforming equipment meets the order specifications. No changes may be made to this document without the prior, express, written authorization of the manufacturer.	Group: **WSHP** Type: **Large Vertical** Date: **March 2015**

Daikin Enfinity™ Large Vertical WSHP

Models LVC/LVW – Unit Size 096

Dimensions

Left Hand Piping

Front View-Front Return

Right Hand Piping

Overall unit dimensions: 54⅝" W × 55¾" H × 28" D

Electrical knockouts

Fan Discharge Arrangements

Six fan discharge arrangements and two piping arrangements are available. With the return air side defined as the "front" of the unit, the water piping connections may be right-hand (side) or left-hand. All units have a single supply and return water connection with a copper FPT type fitting that protrudes through the unit casing for easy connection. The condensate connection is also a copper FPT type and is located on both sides of the unit. The unused connection is plugged.

Figure 1: Fan deck arrangements

Note: 1. The hand of unit is determined by looking at the return air (filter) side. The piping and electrical connections are always made on the "hand" side of the unit.
2. The return air (filter) side is considered the "front" of the unit. The fan motor is always located at the piping/electrical connection (hand) side of the unit.

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Enfinity Large Vertical WSHP - Models LVC/LVW – Unit Size 096

Figure 2: LVC/LVW top horizontal discharge opening – size 096

Filter rack and filters

Units come standard with a 1-inch, 4-sided, factory-installed filter rack and 1-inch disposable filters, Four filters for unit size 096 Filters can be removed from either side of the filter rack.

2" Filter Rack Included

Physical data

Table 1: Large vertical size 096

Unit Size		096
Fan Wheel - D x W (In.)		(2) 13³/₁₆" × 12⁵/₈"
Fan Motor Horsepower	Standard Static	1.5
	High Static	2.0
Coil Face Area (Sq. Ft.)		10.0
Coil Rows		3
Refrigerant Charge (Oz.)	Compressor 1	60
	Compressor 2	56
Standard Filter, (Qty.) Size (In.)		(4) 16" × 25 × 1"
Water Connections, Female NPT		1¼" FPT
Condensate Connections, Female NPT		1" FPT
Weight, Operating (Lbs.)		588
Weight, Shipping (Lbs.)		620

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ENFINITY™ Heat Pump

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Date: 06/14/17

Job Information — *Technical Data Sheet*

Job Name	Davids Restaurant
Date	04/26/2017
Submitted By	Ann Marie Juliano
Software Version	04.70
Unit Tag	10 ton

Unit Overview

Model Number	Voltage V/Hz/Phase	Air Flow CFM	Fluid Flow gpm	Cooling Capacity Btu/hr	Cooling Efficiency EER @ design	Heating Capacity Btu/hr	Heating Efficiency COP @ design
WLVC1120	208/60/3	4000	30.00	87138	13.18	106851	4.77

Unit

Model Number:	WLVC1120
Unit Type:	Large Vertical, Standard Range
Unit Construction:	Fiberglass Insulation
Approval:	ETL, CETL, ARI

Refrigerant Type	Refrigerant Weight
R-410A	80.0 oz

Unit Performance

Air & Water Flow

Airflow	Total External Static Pressure	Fluid Flow	Fluid Type	Fluid Pressure Drop
4000 CFM	0.50 inH_2O	30.00 gpm / 3.00 gpm/ton	Water	22.18 ft H_2O

Cooling Performance

Fluid Temperature Entering °F	Fluid Temperature Leaving °F	Air Temperature Entering Dry Bulb °F	Air Temperature Entering Wet Bulb °F	Air Temperature Leaving Dry Bulb °F	Air Temperature Leaving Wet Bulb °F	Capacity Total Btu/hr	Capacity Sensible Btu/hr	Heat of Rejection Btu/hr	EER @ design
85.0	0.0	80.0	67.0	65.4	60.0	87138	61960	109704	13.18

Heating Performance

Fluid Temperature Entering °F	Fluid Temperature Leaving °F	Air Temperature Entering Dry Bulb °F	Air Temperature Leaving Dry Bulb °F	Capacity Total Btu/hr	Heat of Absorption Btu/hr	COP @ design
70.0	63.0	70.0	94.8	106851	84448	4.77

Electrical

Unit Voltage	Minimum Voltage	Total Unit MCA	Total Unit Full Load Current
208/60/3	187 V	41.60 A	37.70 A

Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
15.60 A	110.0 A	6.50 A	50 A

ENFINITY™ Heat Pump

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Date: 06/14/17

Physical

Unit						
Length	Height	Width	Weight		Connections	
			Shipping	Operating	Water, FPT	Condensate, FPT
28.00 in	55.75 in	54.62 in	710 lb	681 lb	1.25	1.00 in

Cabinet		
Construction Type	Piping Hand	Condensate Drain Pan
Standard 1/2" Fiberglass	Right Side Pipe Connections	Galvanized Steel

Fan				Controls
Type	Motor		Drive	Type
	Type	Horsepower	Type	
DWDI FC	Belt Drive - Integral HP Motor	2.000 hp	Belt	Microtech III Base Controller

Airstream		
Air		Filter
Discharge	Return	(Quantity) Height x Width x Depth
Upblast Front	Front	(4) 25 in x 16 in x 2 in

Options

Heating	
Heat Exchanger:	Copper Inner Tube / Steel Outer Tube
Filter Options	
Filter Options:	2" 4-Sided, MERV 8 filter
Controls	
Control Transformer:	75VA Control Transformer
Condensate Overflow:	Sensor

Warranty

Entire Unit:	One Year Entire Unit Parts Only Warranty, Not to Exceed 18 Months from Shipment
OPTIONAL EXTENDED:	Four Years Extended, Five Years Total Entire Unit Parts Only

AHRI Certification

All equipment is rated and certified in accordance with AHRI / ISO 13256-1 and tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada.

Certified Drawing	LVC-LVW-120 Specs
The Water Source Heat Pump product represented on this document will conform to the drawings and specifications set out below, in accordance with the express, written Limited Warranty. Purchaser's acceptance of this drawing certifies that the conforming equipment meets the order specifications. No changes may be made to this document without the prior, express, written authorization of the manufacturer.	Group: **WSHP** Type: **Large Vertical** Date: **March 2015**

Daikin Enfinity™ Large Vertical WSHP

Models LVC/LVW – Unit Size 120

Dimensions

Overall Unit Dimensions: 54⅝" W × 55¾" H × 28" D

Electrical Knockouts

Fan Discharge Arrangements

Six fan discharge arrangements and two piping arrangements are available. With the return air side defined as the "front" of the unit, the water piping connections may be right-hand (side) or left-hand. All units have a single supply and return water connection with a copper FPT type fitting that protrudes through the unit casing for easy connection. The condensate connection is also a copper FPT type and is located on both sides of the unit. The unused connection is plugged.

Figure 1: Fan deck arrangements

Note: 1. The hand of unit is determined by looking at the return air (filter) side. The piping and electrical connections are always made on the "hand" side of the unit.
2. The return air (filter) side is considered the "front" of the unit. The fan motor is always located at the piping/electrical connection (hand) side of the unit.

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Enfinity Large Vertical WSHP - Models LVC/LVW – Unit Size 120

Figure 2: LVC/LVW top horizontal discharge opening – size 120

Filter rack and filters

Units come standard with a 1-inch, 4-sided, factory-installed filter rack and 1-inch disposable filters, Four filters for unit size 120 Filters can be removed from either side of the filter rack.

2" filter Rack Included

Physical data

Table 1: Large vertical size 120

Unit Size		120
Fan Wheel - D x W (In.)		(2) 13 3/16" × 12 5/8"
Fan Motor Horsepower	Standard Static	2.0
	High Static	3.0
Coil Face Area (Sq. Ft.)		10.0
Coil Rows		4
Refrigerant Charge (Oz.)	Compressor 1	80
	Compressor 2	86
Standard Filter, (Qty.) Size (In.)		(4) 16" × 25 × 1"
Water Connections, Female NPT		1 1/4" FPT
Condensate Connections, Female NPT		1" FPT
Weight, Operating (Lbs.)		681
Weight, Shipping (Lbs.)		710

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