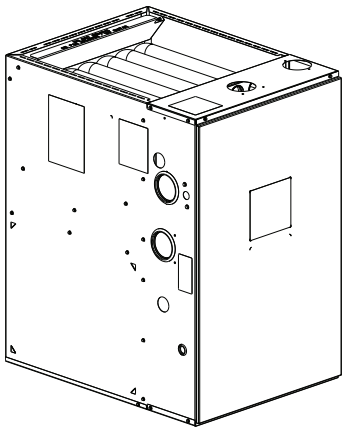
Product and Submittal Data

Upflow/Horizontal Left/Right Downflow Two Stage Condensing Gas Fired Furnace

Upflow, Convertible to Horizontal Right or Horizontal Left
A952V040BU3SBA
A952V060BU4SBA
A952V080BU4SBA
A952V080CU5SBA
A952V100CU5SBA
A952V120DU5SBA

Downflow Only
A952V040BD3SBA
A952V060BD3SBA
A952V080BD4SBA
A952V100CD5SBA
A952V120DD5SBA



Note: *Graphics in this document are for representation only. Actual model may differ in appearance.*

July 2025

FNR-PSD017A-EN

Introduction

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Data Notes

This document supersedes and includes data from the documents listed below.

Table 1. Data notes

Literature Number	Title
A952V040BD3-SUB-2*-EN	Downflow Two Stage Condensing Gas Fired Furnace 40,000 BTUH Submittal
A952V040BU3-SUB-2*-EN	Upflow/Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 40,000 BTUH Submittal
A952V060BD3-SUB-2*-EN	Downflow Two Stage Condensing Gas Fired Furnace 60,000 BTUH Submittal
A952V060BU4-SUB-2*-EN	Upflow/Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 60,000 BTUH Submittal
A952V080BD4-SUB-2*-EN	Downflow Two Stage Condensing Gas Fired Furnace 80,000 BTUH Submittal
A952V080BU4-SUB-2*-EN	Upflow/Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 80,000 BTUH Submittal
A952V080CU5-SUB-2*-EN	Upflow/Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 80,000 BTUH Submittal
A952V100CD5-SUB-2*-EN	Downflow Two Stage Condensing Gas Fired Furnace 100,000 BTUH Submittal
A952V100CU5-SUB-2*-EN	Upflow/Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 100,000 BTUH Submittal
A952V120DD5-SUB-2*-EN	Downflow Two Stage Condensing Gas Fired Furnace 120,000 BTUH Submittal
A952V120DU5-SUB-2*-EN	Upflow/Horizontal Left/Right Two Stage Condensing Gas Fired Furnace 120,000 BTUH Submittal

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General Features

Natural Gas Models

Central Heating furnace designs are certified by the Intertek/ETL for both natural and propane gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

Safe Operation

The Integrated Furnace Control is a solid state device which continuously monitors for presence of flame when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide additional safety.

Quick Heating

Durable, cycle tested, heavy gauge tubular stainless steel primary heat exchanger quickly transfers heat to provide warm conditioned air to the structure. Low energy power vent blower, to increase efficiency and provide a positive discharge of gas fumes to the outside.

Burners

Multiport Inshot burners will give years of quiet and efficient service. All models can be converted to Propane with propane conversion kit.

Integrated Furnace Control

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. Also contains dry contacts for EAC and HUM.

Energy Efficient Operation

Furnace is certified by the manufacturer to leak 1.4% or less of nominal air conditioning CFM delivered when pressurized to 0.5-inch water column with all inlets, outlets, and drains sealed.

Air Delivery

The variable speed blower motor has sufficient airflow for most heating and cooling requirements and will switch from heating to cooling speeds on demand from room thermostat.

Secondary Heat Exchanger

The S-Series furnace has a special type 29- 4C™ stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost.

Styling

Heavy gauge steel and wrap-around cabinet construction is used in the cabinet for strength and beauty. Every orientation has at least two venting options. There are no knockouts on cabinet.

Features And General Operation

The furnace utilizes a Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated furnace control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

1. Low energy power venter
2. Vent proving pressure switches

Features and Benefits

96.0% AFUE Across All Models

Meets utility rebates

Lowers utility bills

Electrically Efficient

Efficient airflow design reduces electrical energy use

34 Inch Tall

Lighter, easier to move and fit into tight spaces like short basements or tight closets

Works great with larger, high-efficiency coils

No knockouts

3–Way Multi-Poise / Dedicated Downflow

6 SKU's — Upflow / Horizontal Left / Horizontal Right

5 SKU's — Downflow

Added application flexibility and reduction in specification errors

Airflow

At least 400 CFM/ton at 0.5-inch H_20 external static pressure; setup airflow options down to 290 CFM/ton

Regulatory

All models are air tight; 1.4% or less air leakage as per ASHRAE 193

Open vestibule design provides a full 34" high open vestibule

Dimensions

Widths are industry standard: 17.5 inch, 21 inch, and 24.5 inch

Depth remains approximately 28-inch

Cabinet will be compatible with industry standard coils, as well as, other accessories

Integrated Furnace Control

Setup / Status / Diagnostics / Digital Display

No dip switches

Last six errors stored

Dry contact EAC and HUM connections

All multi-pin polarized terminals connections; no spade terminals

Low voltage labeled above and below

Tubular Stainless Steel Primary Heat Exchanger
29 – 4C Stainless Steel Secondary Heat Exchanger

Stainless steel is a more durable, corrosive-resistant material than aluminumized steel

Integrated rail system for easy access if required

Reduces or eliminates need for baffles

Three–Way Multi-Poise (Upflow, Horizontal Left and Right) Plus Dedicated Downflow

Easier to specify

Shipped ready to install (no kits required)

Every model has at least two venting options

Barbed fitting on trap at hose connection and on cabinet transition for hose has barbed fitting and clamps at both ends for leak resistance.

Vent table improvements including longer vent lengths; 2-inch pipe can be used up to 100K

Accessories

Table 2. Accessories

Model Number	Description	Use with
BAYHANG	Horizontal Hanging Kit	All Upflow Furnaces
BAYVENT200B	Sidewall Vent Termination Kit	All Furnaces
BAYVENTCN200B	Sidewall Vent Termination Kit (Canada —CPVC)	All Furnaces
BAYAIR30AVENTA	Concentric Vent Kit	All Furnaces
BAYAIR30CNVENT	Concentric Vent Kit (Canada — CPVC)	All Furnaces
BAYFLTR203	Horizontal Filter Kit	B Cabinet Modular Blowers in Downflow/Horizontal
BAYFLTR204	Horizontal Filter Kit	C Cabinet Modular Blowers in Downflow/Horizontal
BAYFLTR205	Horizontal Filter Kit	D Cabinet Modular Blowers in Downflow/Horizontal
BAYFLTR206	Filter Access Door Kit (Downflow only)	All Furnaces in Downflow orientation
BAYREDUCE	Reducing Coupling (CPVC)	All Furnaces
BAYLIFTB[(a)]	Dual Return Kit (B size extension)	B Cabinet Upflow Furnaces
BAYLIFTC[(a)]	Dual Return Kit (C size extension)	C Cabinet Upflow Furnaces
BAYLIFTD[(a)]	Dual Return Kit (D size extension)	D Cabinet Upflow Furnaces
BAYBASE205	Downflow Subbase	All Downflow Furnaces
BAYFLTR206	Filter Access Door Kit (Downflow only)	All Downflow Furnaces
BAYSF1165A[(a)], [(b)]	1 in. SlimFit Box with MERV 4 Filter	All Upflow Furnaces
BAYSF1255[(b)]	2 in. SlimFit Filter Box with MERV 4 Filter	All furnaces when used in side return application. B-Cabinet Furnaces only when in bottom return application.
BAYLPSS400[(b)]	Propane Conversion Kit with Stainless Steel Burners	All Furnaces
BAYMFGH200B	Manufactured/Mobile Housing Kit	All Furnaces
BAYCNDTRAP2A	Inline Condensate Trap Kit used with Special Venting on 2 in. Vent Pipe	All Furnaces
BAYCNDTRAP3A	Inline Condensate Trap Kit used with Special Venting on 3 in. Vent Pipe	All Furnaces
FLRSF1255	1 in. Filter replacement (Qty 12)	BAYSF1255[(b)]

[(a)] Airflow greater than 1600 CFM. Furnace will require return air openings and filters on: (1) both sides, (2) one side and the bottom, or (3) just on the bottom.
[(b)] Latest revision.

Product Specification

Table 3. Models A952V040BU3SBA, A952V060BU4SBA, and A952V080BU4SBA

Model	A952V040BU3SBA[a] , [b]	A952V060BU4SBA[a], [b]	A952V080BU4SBA[a], [b]
Type	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
Ratings[c]			
1st Stage Input BTUH	26,000	39,000	52,000
1st Stage Capacity BTUH (ICS)	25,300	38,100	50,500
2nd Stage Input BTUH	40,000	60,000	80,000
2nd Stage Capacity BTUH (ICS)[d]	38,950	58,400	77,700
1st Stage Temp. Rise (Min. - Max.) °F	25 - 55	25 - 55	30 - 60
2nd Stage Temp. Rise (Min. - Max.) °F	30 - 60	35 - 65	35 - 65
AFUE (%)[d]	96.0	96.0	96.0
Return Air Temp. (Min. - Max.) °F	45°F - 80°F	45°F - 80°F	45°F - 80°F
Blower Drive	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 x 8	11 x 8	11 x 8
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/2	3/4	3/4
R.P.M.	Variable	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	6.4	9.6	9.6
Combustion Fan - Type	PSC	PSC	PSC
Drive - No. Speeds	Direct - 2	Direct - 2	Direct - 2
Motor RPM	3300/2600	3300/2600	3300/2600
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	0.66	0.66	0.66
Inducer Orifice	0.61	0.79	0.96
Filter - Furnished?	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 16 x 25 - 1 in.	1 - 16 x 25 - 1 in.	1 - 16 x 25 - 1 in.
Vent Outlet Diameter - Min. (in.)[e]	2 Round	2 Round	2 Round
Inlet Air Diameter -Min. (in.)[e]	2 Round	2 Round	2 Round
Heat Exchanger			
Type - Fired	409 Stainless Steel	409 Stainless Steel	409 Stainless Steel
- Unfired	29-4C Stainless Steel	29-4C Stainless Steel	29-4C Stainless Steel
Gauge (Fired)	20	20	20
Orifices - Main			
Nat. Gas (Qty. - Drill Size)	2 - 45	3 - 45	4 - 45
Propane Gas (Qty. - Drill Size)	2 - 56	3 - 56	4 - 56
Gas Valve	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
Pilot Safety Device			
Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Type - Qty	Inshot - 2	Inshot - 3	Inshot - 4
Power Conn. - V/Ph/Hz[f]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	8.8	12.8	12.8
Max. Overcurrent Protection (Amps)	15	15	15
Pipe Conn. Size (in.)	1/2	1/2	1/2

Table 3. Models A952V040BU3SBA, A952V060BU4SBA, and A952V080BU4SBA (continued)

Model	A952V040BU3SBA[a], [b]	A952V060BU4SBA[a], [b]	A952V080BU4SBA[a], [b]
Dimensions	H x W x D	H x W x D	H x W x D
Uncrated (in.)	34 x 17-1/2 x 28-3/4	34 x 17-1/2 x 28-3/4	34 x 17-1/2 x 28-3/4
Crated (in.)	35-1/2 x 19-1/2 x 30-7/8	35-1/2 x 19-1/2 x 30-7/8	35-1/2 x 19-1/2 x 30-7/8
Weight			
Shipping (Lbs.)/Net (Lbs.)	122/114	130/122	135/127

[a] Meets Energy Star
[b] Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 - latest edition.
[c] For U.S. Applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
[d] Based on U.S. government standard tests.
[e] Refer to Vent Length Table in the Installer's Guide.
[f] The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Table 4. Models A952V080CU5SBA, A952V100CU5SBA, and A952V120DU5SBA

Model	A952V080CU5SBA[a], [b]	A952V100CU5SBA[a], [b]	A952V120DU5SBA[a], [b]
Type	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
Ratings[c]			
1st Stage Input BTUH	52,000	65,000	78,000
1st Stage Capacity BTUH (ICS)	50,600	63,400	75,500
2nd Stage Input BTUH	80,000	100,000	120,000
2nd Stage Capacity BTUH (ICS)[d]	77,750	97,650	115,700
1st Stage Temp. Rise (Min. - Max.) °F	30 - 60	25 - 55	35 - 65
2nd Stage Temp. Rise (Min. - Max.) °F	35 - 65	30 - 60	40 - 70
AFUE (%)[d]	96.0	96.0	96.0
Return Air Temp. (Min. - Max.) °F	45°F - 80°F	45°F - 80°F	45°F - 80°F
Blower Drive	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 x 10	11 x 10	11 x 10
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1	1	1
R.P.M.	Variable	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	10.5	10.5	10.5
Combustion Fan - Type	PSC	PSC	PSC
Drive - No. Speeds	Direct - 2	Direct - 2	Direct - 2
Motor RPM	3300/2600	3300/2600	3300/2600
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	0.66	0.66	0.66
Inducer Orifice	0.88	1.05	1.19
Filter - Furnished?	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 20 x 25 - 1 in.	1 - 20 x 25 - 1 in.	1 - 24 x 25 - 1 in.
Vent Outlet Diameter - Min. (in.)[e]	2 Round	2 Round	3 Round
Inlet Air Diameter -Min. (in.)[e]	2 Round	2 Round	3 Round
Heat Exchanger			
Type - Fired	409 Stainless Steel	409 Stainless Steel	409 Stainless Steel
- Unfired	29-4C Stainless Steel	29-4C Stainless Steel	29-4C Stainless Steel
Gauge (Fired)	20	20	20
Orifices - Main			

Table 4. Models A952V080CU5SBA, A952V100CU5SBA, and A952V120DU5SBA (continued)

Model	A952V080CU5SBA[a], [b]	A952V100CU5SBA[a], [b]	A952V120DU5SBA[a], [b]
Nat. Gas (Qty. - Drill Size)	4 - 45	5 - 45	6 - 45
Propane Gas (Qty. - Drill Size)	4 - 56	5 - 56	6 - 56
Gas Valve	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
Pilot Safety Device			
Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Type - Qty	Inshot - 4	Inshot - 5	Inshot - 6
POWER CONN. - V/Ph/HZ[f]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	13.9	13.9	13.9
Max. Overcurrent Protection (Amps)	15	15	15
Pipe Conn. Size (in.)	1/2	1/2	1/2
Dimensions	H x W x D	H x W x D	H x W x D
Uncrated (in.)	34 x 21 x 28-3/4	34 x 21 x 28-3/4	34 x 24-1/2 x 28-3/4
Crated (in.)	35-1/2 x 23 x 30-7/8	35-1/2 x 23 x 30-7/8	35-1/2 x 26-1/2 x 30-7/8
Weight			
Shipping (Lbs.)/Net (Lbs.)	149/139	155/145	167/156

[a] Meets Energy Star
[b] Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 - latest edition.
[c] For U.S. Applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
[d] Based on U.S. government standard tests.
[e] Refer to Vent Length Table in the Installer's Guide.
[f] The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Table 5. Models A952V040BD3SBA, A952V060BD3SBA, and A952V080BD4SBA

Model	A952V040BD3SBA[a], [b]	A952V060BD3SBA[a], [b]	A952V080BD4SBA[a], [b]
Type	Downflow	Downflow	Downflow
Ratings[c]			
1st Stage Input BTUH	26,000	39,000	52,000
1st Stage Capacity BTUH (ICS)	25,300	37,700	50,300
2nd Stage Input BTUH	40,000	60,000	80,000
2nd Stage Capacity BTUH (ICS)[d]	38,850	57,850	77,350
1st Stage Temp. Rise (Min. - Max.) °F	25 - 55	25 - 55	30 - 60
2nd Stage Temp. Rise (Min. - Max.) °F	30 - 60	35 - 65	35 - 65
AFUE (%)[d]	96.0	96.0	96.0
Return Air Temp. (Min. - Max.) °F	45°F - 80°F	45°F - 80°F	45°F - 80°F
Blower Drive	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 x 8	11 x 8	11 x 8
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/2	1/2	3/4
R.P.M.	Variable	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	6.4	6.4	9.6
Combustion Fan - Type	PSC	PSC	PSC
Drive - No. Speeds	Direct - 2	Direct - 2	Direct - 2
Motor RPM	3300/2600	3300/2600	3300/2600
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	0.66	0.66	0.66
Inducer Orifice	0.61	0.79	0.96

Table 5. Models A952V040BD3SBA, A952V060BD3SBA, and A952V080BD4SBA (continued)

Model	A952V040BD3SBA[a], [b]	A952V060BD3SBA[a], [b]	A952V080BD4SBA[a], [b]
Filter - Furnished?	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 16 x 25 - 1 in.	1 - 16 x 25 - 1 in.	1 - 16 x 25 - 1 in.
Vent Outlet Diameter - Min. (in.)[e]	2 Round	2 Round	2 Round
Inlet Air Diameter -Min. (in.)[e]	2 Round	2 Round	2 Round
Heat Exchanger			
Type - Fired	409 Stainless Steel	409 Stainless Steel	409 Stainless Steel
- Unfired	29-4C Stainless Steel	29-4C Stainless Steel	29-4C Stainless Steel
Gauge (Fired)	20	20	20
Orifices - Main			
Nat. Gas (Qty. - Drill Size)	2 - 45	3 - 45	4 - 45
Propane Gas (Qty. - Drill Size)	2 - 56	3 - 56	4 - 56
Gas Valve	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
Pilot Safety Device			
Type	120 V SiNi Igniter	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Type - Qty	Inshot - 2	Inshot - 3	Inshot - 4
Power Conn. - V/Ph/Hz[f]	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	8.8	8.8	12.8
Max. Overcurrent Protection (Amps)	15	15	15
Pipe Conn. Size (in.)	1/2	1/2	1/2
Dimensions	H x W x D	H x W x D	H x W x D
Uncrated (in.)	34 x 17-1/2 x 28-3/4	34 x 17-1/2 x 28-3/4	34 x 17-1/2 x 28-3/4
Crated (in.)	35-1/2 x 19-1/2 x 30-7/8	35-1/2 x 19-1/2 x 30-7/8	35-1/2 x 19-1/2 x 30-7/8
Weight			
Shipping (Lbs.)/Net (Lbs.)	122/114	127/119	135/127

[a] Meets Energy Star
[b] Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 - latest edition.
[c] For U.S. Applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
[d] Based on U.S. government standard tests.
[e] Refer to Vent Length Table in the Installer's Guide.
[f] The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Table 6. Models A952V100CD5SBA and A952V120DD5SBA

Model	A952V100CD5SBA[a], [b]	A952V120DD5SBA[a], [b]
Type	Downflow	Downflow
Ratings[c]		
1st Stage Input BTUH	65,000	78,000
1st Stage Capacity BTUH (ICS)	63,300	75,800
2nd Stage Input BTUH	100,000	120,000
2nd Stage Capacity BTUH (ICS)[d]	97,150	116,100
1st Stage Temp. Rise (Min. - Max.) °F	30 - 60	30-60
2nd Stage Temp. Rise (Min. - Max.) °F	35 - 65	35-65
AFUE (%)[d]	96.0	96.0
Return Air Temp. (Min. - Max.) °F	45°F - 80°F	45°F - 80°F
Blower Drive	DIRECT	DIRECT
Diameter - Width (in.)	11 x 10	11 x 10
No. Used	1	1
Speeds (No.)	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table

Table 6. Models A952V100CD5SBA and A952V120DD5SBA (continued)

Model	**A952V100CD5SBA[a], [b]**	**A952V120DD5SBA[a], [b]**
Motor HP	1	1
R.P.M.	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60
FLA	10.5	10.5
Combustion Fan - Type	PSC	PSC
Drive - No. Speeds	Direct - 2	Direct - 2
Motor RPM	3300/2600	3300/2600
Volts/Ph/Hz	120 / 1 / 60	120 / 1 / 60
FLA	0.66	0.66
Inducer Orifice	1.05	1.19
Filter - Furnished?	No	No
Type Recommended	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 20 x 25 - 1 in.	1 - 24 x 25 - 1 in.
Vent Outlet Diameter - Min. (in.)[e]	2 Round	3 Round
Inlet Air Diameter -Min. (in.)[e]	2 Round	3 Round
Heat Exchanger		
Type - Fired	409 Stainless Steel	409 Stainless Steel
- Unfired	29-4C Stainless Steel	29-4C Stainless Steel
Gauge (Fired)	20	20
Orifices - Main		
Nat. Gas (Qty. - Drill Size)	5 - 45	6 - 45
Propane Gas (Qty. - Drill Size)	5 - 56	6 - 56
Gas Valve	Redundant - Two Stage	Redundant - Two Stage
Pilot Safety Device		
Type	120 V SiNi Igniter	120 V SiNi Igniter
Burners - Type - Qty	Inshot - 5	Inshot - 6
Power Conn. - V/Ph/Hz[f]	120 / 1 / 60	120 / 1 / 60
Ampacity (Amps)	13.9	13.9
Max. Overcurrent Protection (Amps)	15	15
Pipe Conn. Size (in.)	1/2	1/2
Dimensions	H x W x D	H x W x D
Uncrated (in.)	34 x 21 x 28-3/4	34 x 24-1/2 x 28-3/4
Crated (in.)	35-1/2 x 23 x 30-7/8	35-1/2 x 26-1/2 x 30-7/8
Weight		
Shipping (Lbs.)/Net (Lbs.)	155/145	167/156

[a] Meets Energy Star

[b] Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3 - latest edition.

[c] For U.S. Applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

[d] Based on U.S. government standard tests.

[e] Refer to Vent Length Table in the Installer's Guide.

[f] The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Airflow Tables

Table 7. Heating airflow performance - model A952V040BU3S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	**Heating Stage**	**Target Airflow**		**External Static Pressure (In. W. C.)**				
				0.1	**0.3**	**0.5**	**0.7**	**0.9**
650	1st Stage	468	CFM / Watts	468 / 27	452 / 58	437 / 90	421 / 121	406 / 152
			Temp. Rise	49	51	54	56	58
	2nd Stage	650	CFM / Watts	633 / 48	636 / 92	639 / 135	643 / 179	646 / 223
			Temp. Rise	57	57	57	56	56
830	1st Stage	598	CFM / Watts	552 / 41	600 / 76	647 / 112	694 / 147	741 / 183
			Temp. Rise	43	39	36	32	28
	2nd Stage	830	CFM / Watts	760 / 82	786 / 132	813 / 182	840 / 232	866 / 282
			Temp. Rise	48	46	45	43	41
880[a]	1st Stage	634	CFM / Watts	583 / 48	635 / 83	687 / 118	739 / 153	791 / 189
			Temp. Rise	39	36	33	30	27
	2nd Stage	880	CFM / Watts	792 / 94	817 / 142	842 / 189	867 / 237	892 / 284
			Temp. Rise	44	44	43	43	42
1200	1st Stage	864	CFM / Watts	753 / 86	785 / 129	818 / 171	850 / 213	882 / 256
			Temp. Rise	30	29	28	27	26
	2nd Stage	1200	CFM / Watts	1022 / 191	1044 / 250	1065 / 309	1087 / 368	1109 / 427
			Temp. Rise	34	33	33	32	32

[a] Factory Setting

Table 8. Heating airflow performance - model A952V040BD3S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	**Heating Stage**	**Target Airflow**		**External Static Pressure (In. W. C.)**				
				0.1	**0.3**	**0.5**	**0.7**	**0.9**
650	1st Stage	468	CFM / Watts	464 / 26	453 / 55	442 / 84	431 / 113	420 / 142
			Temp. Rise	51	52	53	54	55
	2nd Stage	650	CFM / Watts	662 / 37	655 / 79	649 / 120	642 / 162	635 / 203
			Temp. Rise	54	55	55	56	56
880[a]	1st Stage	634	CFM / Watts	616 / 40	607 / 78	599 / 115	591 / 152	583 / 190
			Temp. Rise	38	38	39	40	40
	2nd Stage	880	CFM / Watts	811 / 67	818 / 121	826 / 176	834 / 230	841 / 284
			Temp. Rise	45	44	44	43	42
950	1st Stage	684	CFM / Watts	635 / 47	643 / 106	650 / 165	658 / 224	666 / 283
			Temp. Rise	37	37	36	36	35
	2nd Stage	950	CFM / Watts	859 / 88	865 / 144	871 / 200	877 / 256	884 / 312
			Temp. Rise	42	41	41	41	41
1250	1st Stage	900	CFM / Watts	824 / 82	843 / 130	861 / 178	880 / 226	898 / 274
			Temp. Rise	28	28	27	26	26
	2nd Stage	1250	CFM / Watts	1082 / 192	1092 / 253	1102 / 314	1111 / 375	1121 / 436
			Temp. Rise	33	33	33	33	33

[a] Factory Setting

Table 9. Cooling airflow performance - models A952V040BU3S and A952V040BD3S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
1.5	450	675 / 47	675 / 81	675 / 121	675 / 166	675 / 215
	420	630 / 40	630 / 72	630 / 111	630 / 154	630 / 202
	400	600 / 36	600 / 67	600 / 105	600 / 147	600 / 193
	370	555 / 30	555 / 60	555 / 96	555 / 136	555 / 181
	350	525 / 27	525 / 56	525 / 90	525 / 130	525 / 174
	330	495 / 24	495 / 51	495 / 85	495 / 124	495 / 167
	310	465 / 21	465 / 48	465 / 80	465 / 118	465 / 161
	290	435 / 19	435 / 44	435 / 76	435 / 113	435 / 155
2.0	450	900 / 94	900 / 137	900 / 186	900 / 240	900 / 298
	420	840 / 79	840 / 120	840 / 166	840 / 218	840 / 273
	400	800 / 70	800 / 109	800 / 154	800 / 204	800 / 258
	370	740 / 58	740 / 95	740 / 138	740 / 185	740 / 236
	350	700 / 51	700 / 86	700 / 127	700 / 173	700 / 223
	330	660 / 44	660 / 78	660 / 118	660 / 162	660 / 211
	310	620 / 38	620 / 71	620 / 109	620 / 152	620 / 199
	290	580 / 33	580 / 64	580 / 101	580 / 142	580 / 188
2.5	450	1125 / 167	1125 / 219	1125 / 278	1125 / 341	1125 / 408
	420	1050 / 139	1050 / 188	1050 / 244	1050 / 304	1050 / 368
	400	1000 / 123	1000 / 170	1000 / 223	1000 / 281	1000 / 343
	370	925 / 100	925 / 145	925 / 195	925 / 250	925 / 308
	350	875 / 87	875 / 129	875 / 178	875 / 230	875 / 287
	330	825 / 121	825 / 160	825 / 205	825 / 254	825 / 308
	310	775 / 101	775 / 139	775 / 182	775 / 229	775 / 281
	290	725 / 88	725 / 123	725 / 164	725 / 210	725 / 260
3.0[a]	450	1350 / 272	1350 / 334	1350 / 402	1298 / 440	1198 / 450
	420	1260 / 226	1260 / 284	1260 / 348	1260 / 417	1198 / 450
	400	1200 / 198	1200 / 254	1200 / 315	1200 / 381	1198 / 450
	370	1110 / 161	1110 / 213	1110 / 271	1110 / 333	1110 / 399
	350[a]	1050 / 139	1050 / 188	1050 / 244	1050 / 304	1050 / 368
	330	990 / 119	990 / 166	990 / 219	990 / 277	990 / 338
	310	930 / 102	930 / 146	930 / 197	930 / 252	930 / 311
	290	870 / 86	870 / 128	870 / 176	870 / 229	870 / 285

[a] Factory Setting

Table 10. Heating airflow performance - model A952V060BD3S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
900	1st Stage	711	CFM / Watts	677 / 48	677 / 93	677 / 138	677 / 183	677 / 228
			Temp. Rise	52	52	52	52	51
	2nd Stage	900	CFM / Watts	859 / 89	856 / 138	853 / 188	849 / 237	846 / 286
			Temp. Rise	62	62	63	63	63
1030[a]	1st Stage	814	CFM / Watts	787 / 71	775 / 115	763 / 160	751 / 204	739 / 249
			Temp. Rise	44	45	46	47	49
	2nd Stage	1030	CFM / Watts	976 / 126	967 / 179	957 / 232	947 / 285	938 / 338
			Temp. Rise	55	55	56	57	58

Table 10. Heating airflow performance - model A952V060BD3S (continued)

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1130	1st Stage	893	CFM / Watts	864 / 85	855 / 133	846 / 181	836 / 229	827 / 277
			Temp. Rise	40	41	41	42	43
	2nd Stage	1130	CFM / Watts	1066 / 162	1053 / 218	1040 / 275	1026 / 331	1013 / 388
			Temp. Rise	50	51	52	53	53
1350	1st Stage	1067	CFM / Watts	1032 / 140	1013 / 193	993 / 245	974 / 297	955 / 349
			Temp. Rise	34	35	35	36	36
	2nd Stage	1350	CFM / Watts	1245 / 279	1233 / 332	1221 / 386	1209 / 440	1197 / 494
			Temp. Rise	43	44	44	44	45

(a) Factory Setting

Table 11. Cooling airflow performance - model A952V060BD3S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
1.5	450	671 / 47	673 / 84	671 / 121	665 / 161	656 / 202
	420	625 / 41	628 / 75	626 / 111	621 / 149	611 / 190
	400	595 / 37	598 / 70	597 / 105	591 / 142	582 / 182
	370	548 / 32	552 / 63	552 / 96	547 / 132	538 / 171
	350	518 / 28	522 / 58	522 / 91	517 / 126	508 / 164
	330	487 / 25	491 / 54	491 / 86	487 / 120	479 / 158
	310	456 / 23	461 / 50	461 / 81	457 / 115	449 / 152
	290	424 / 20	430 / 47	431 / 77	427 / 110	419 / 147
2.0	450	894 / 91	890 / 136	881 / 181	871 / 228	873 / 282
	420	838 / 78	838 / 121	834 / 166	827 / 212	816 / 258
	400	797 / 69	798 / 111	795 / 154	788 / 198	777 / 244
	370	737 / 58	738 / 97	736 / 138	729 / 179	719 / 223
	350	696 / 51	698 / 89	696 / 127	690 / 168	680 / 210
	330	656 / 45	658 / 81	656 / 118	651 / 157	641 / 198
	310	615 / 39	618 / 73	616 / 109	611 / 147	602 / 187
	290	574 / 34	577 / 67	577 / 101	572 / 138	562 / 177
2.5	450	1119 / 161	1117 / 218	1111 / 274	1101 / 332	1088 / 390
	420	1036 / 131	1034 / 184	1029 / 237	1020 / 291	1008 / 346
	400	997 / 119	996 / 170	990 / 221	982 / 273	970 / 326
	370	922 / 98	922 / 146	917 / 194	909 / 243	898 / 293
	350	873 / 86	873 / 131	869 / 177	861 / 224	850 / 272
	330	823 / 74	823 / 118	819 / 161	812 / 206	801 / 253
	310	772 / 64	773 / 105	770 / 147	764 / 190	753 / 235
	290	722 / 55	723 / 94	721 / 134	715 / 175	704 / 218
3.0[a]	450	1336 / 262	1331 / 328	1323 / 395	1312 / 462	1299 / 529
	420	1250 / 217	1246 / 280	1239 / 342	1228 / 405	1215 / 469
	400	1192 / 191	1189 / 251	1182 / 311	1172 / 371	1159 / 432
	370	1105 / 156	1102 / 212	1096 / 268	1087 / 324	1074 / 382
	350[a]	1046 / 135	1044 / 188	1039 / 241	1030 / 296	1017 / 351
	330	987 / 116	986 / 167	981 / 217	972 / 269	960 / 322
	310	927 / 99	927 / 147	922 / 195	914 / 245	903 / 295
	290	868 / 85	868 / 130	864 / 175	856 / 222	845 / 270

(a) Factory Setting

Table 12. Heating airflow performance - model A952V060BU4S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
990	1st Stage	782	CFM / Watts	776 / 70	769 / 109	762 / 149	756 / 188	749 / 227
			Temp. Rise	45	45	45	45	46
	2nd Stage	990	CFM / Watts	1002 / 126	996 / 172	990 / 219	984 / 266	979 / 313
			Temp. Rise	55	55	55	55	55
1090	1st Stage	861	CFM / Watts	842 / 88	823 / 126	805 / 164	786 / 202	768 / 240
			Temp. Rise	42	43	43	44	44
	2nd Stage	1090	CFM / Watts	1130 / 160	1117 / 206	1105 / 253	1092 / 300	1079 / 347
			Temp. Rise	49	49	49	50	50
1160[a]	1st Stage	916	CFM / Watts	863 / 105	860 / 143	858 / 181	855 / 219	853 / 257
			Temp. Rise	41	41	41	41	41
	2nd Stage	1160	CFM / Watts	1139 / 181	1133 / 231	1128 / 281	1122 / 331	1116 / 381
			Temp. Rise	48	48	49	49	49
1300	1st Stage	1027	CFM / Watts	1105 / 135	1084 / 173	1063 / 210	1042 / 248	1021 / 285
			Temp. Rise	32	32	33	34	34
	2nd Stage	1300	CFM / Watts	1319 / 246	1307 / 300	1295 / 353	1283 / 407	1272 / 461
			Temp. Rise	41	42	42	42	43

[a] Factory Setting

Table 13. Cooling airflow performance - model A952V060BU4S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
1.5	450	663 / 46	673 / 82	666 / 118	640 / 154	596 / 191
	420	620 / 40	629 / 74	621 / 109	594 / 143	548 / 179
	400	581 / 35	580 / 66	566 / 98	528 / 130	507 / 170
	370	549 / 31	556 / 63	546 / 94	517 / 127	469 / 162
	350	520 / 28	526 / 58	515 / 89	486 / 122	437 / 155
	330	492 / 25	497 / 54	485 / 84	454 / 116	404 / 150
	310	463 / 23	467 / 51	454 / 80	423 / 111	372 / 145
	290	434 / 20	437 / 47	424 / 76	391 / 107	339 / 140
2.0	450	878 / 90	892 / 135	889 / 179	868 / 222	829 / 266
	420	820 / 76	834 / 119	830 / 160	808 / 202	767 / 244
	400	769 / 65	777 / 105	770 / 144	742 / 182	724 / 229
	370	725 / 57	736 / 95	730 / 133	706 / 172	663 / 210
	350	687 / 50	697 / 87	691 / 124	666 / 161	622 / 198
	330	649 / 44	658 / 80	651 / 115	625 / 151	580 / 187
	310	611 / 39	619 / 73	611 / 107	584 / 141	538 / 177
	290	573 / 34	580 / 66	571 / 99	543 / 132	495 / 167
2.5	450	1096 / 159	1114 / 212	1114 / 264	1096 / 316	1061 / 367
	420	1023 / 132	1040 / 183	1039 / 233	1020 / 282	983 / 330
	400	975 / 117	989 / 165	989 / 214	969 / 261	932 / 308
	370	902 / 96	917 / 142	914 / 187	893 / 231	854 / 276
	350	854 / 84	868 / 128	864 / 171	843 / 214	803 / 256
	330	806 / 73	819 / 115	815 / 156	792 / 197	751 / 238
	310	758 / 63	770 / 103	765 / 142	742 / 182	700 / 221
	290	710 / 54	722 / 92	716 / 130	691 / 167	648 / 206

Table 13. Cooling airflow performance - model A952V060BU4S (continued)

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
3.0	450	1318 / 259	1339 / 321	1342 / 381	1327 / 441	1295 / 500
	420	1229 / 215	1249 / 273	1250 / 330	1234 / 387	1201 / 443
	400	1170 / 188	1189 / 244	1190 / 299	1173 / 354	1138 / 408
	370	1081 / 153	1099 / 206	1099 / 258	1081 / 309	1045 / 360
	350	1023 / 132	1040 / 183	1039 / 233	1020 / 282	983 / 330
	330	965 / 114	981 / 162	979 / 210	959 / 257	921 / 303
	310	907 / 97	922 / 143	919 / 189	898 / 233	860 / 278
	290	849 / 83	863 / 126	859 / 169	838 / 212	798 / 255
3.5	450	1546 / 399	1570 / 468	1575 / 536	1563 / 604	1534 / 670
	420	1439 / 329	1462 / 394	1466 / 459	1453 / 523	1422 / 586
	400	1369 / 287	1390 / 350	1394 / 412	1379 / 474	1347 / 534
	370	1264 / 231	1284 / 291	1286 / 349	1270 / 407	1237 / 464
	350	1194 / 199	1214 / 256	1215 / 312	1198 / 367	1164 / 422
	330	1125 / 170	1144 / 224	1144 / 278	1127 / 331	1092 / 383
	310	1058 / 144	1074 / 196	1074 / 247	1055 / 297	1019 / 347
	290	991 / 122	1005 / 171	1004 / 219	984 / 267	947 / 314
4.0[a]	450	1779 / 584	1805 / 661	1814 / 736	1805 / 811	1778 / 885
	420	1654 / 479	1679 / 552	1686 / 623	1675 / 694	1647 / 765
	400	1571 / 417	1596 / 487	1602 / 556	1590 / 624	1560 / 692
	370	1449 / 335	1472 / 401	1476 / 466	1463 / 530	1432 / 593
	350[a]	1369 / 287	1390 / 350	1394 / 412	1379 / 474	1347 / 534
	330	1289 / 244	1309 / 304	1312 / 364	1296 / 422	1263 / 480
	310	1209 / 206	1229 / 263	1230 / 320	1214 / 376	1180 / 431
	290	1130 / 172	1149 / 227	1149 / 280	1132 / 333	1097 / 386

[a] Factory Setting

Table 14. Heating airflow performance - model A952V080BU4S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1200	1st Stage	864	CFM / Watts	914 / 90	882 / 131	849 / 172	816 / 213	783 / 255
			Temp. Rise	51	53	55	57	59
	2nd Stage	1200	CFM / Watts	1207 / 206	1206 / 258	1205 / 309	1204 / 361	1203 / 412
			Temp. Rise	60	60	60	60	60
1260[a]	1st Stage	907	CFM / Watts	940 / 104	912 / 141	885 / 178	858 / 215	831 / 253
			Temp. Rise	50	51	53	54	56
	2nd Stage	1260	CFM / Watts	1260 / 232	1261 / 287	1262 / 342	1263 / 397	1264 / 452
			Temp. Rise	57	57	57	57	57
1330	1st Stage	958	CFM / Watts	983 / 118	932 / 151	881 / 184	830 / 218	779 / 251
			Temp. Rise	47	50	53	55	58
	2nd Stage	1330	CFM / Watts	1360 / 263	1347 / 322	1333 / 380	1320 / 439	1306 / 497
			Temp. Rise	53	53	54	54	55
1460	1st Stage	1051	CFM / Watts	1029 / 155	1068 / 195	1107 / 235	1146 / 275	1185 / 314
			Temp. Rise	45	44	42	40	39
	2nd Stage	1460	CFM / Watts	1420 / 377	1439 / 433	1458 / 489	1477 / 546	1496 / 602
			Temp. Rise	51	50	49	49	48

[a] Factory Setting

Table 15. Heating airflow performance - model A952V080BD4S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1200	1st Stage	864	CFM / Watts	807 / 81	795 / 126	782 / 171	769 / 216	757 / 261
			Temp. Rise	57	58	59	60	61
	2nd Stage	1200	CFM / Watts	1125 / 191	1103 / 241	1082 / 291	1060 / 341	1039 / 391
			Temp. Rise	64	65	66	67	69
1260	1st Stage	907	CFM / Watts	835 / 94	822 / 137	809 / 180	796 / 222	783 / 265
			Temp. Rise	55	56	57	58	59
	2nd Stage	1260	CFM / Watts	1188 / 219	1161 / 272	1135 / 326	1108 / 380	1082 / 433
			Temp. Rise	60	62	63	64	66
1330[a]	1st Stage	958	CFM / Watts	895 / 109	880 / 152	865 / 195	850 / 238	835 / 281
			Temp. Rise	51	52	54	55	57
	2nd Stage	1330	CFM / Watts	1242 / 258	1219 / 309	1196 / 359	1173 / 410	1150 / 461
			Temp. Rise	57	59	60	61	62
1480	1st Stage	1066	CFM / Watts	977 / 127	962 / 178	948 / 230	934 / 281	920 / 332
			Temp. Rise	47	48	49	50	51
	2nd Stage	1480	CFM / Watts	1342 / 329	1327 / 388	1313 / 448	1298 / 507	1284 / 567
			Temp. Rise	53	54	54	55	56

[a] Factory Setting

Table 16. Heating airflow performance - models A952V080BU4S and A952V080BD4S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
2.0	450	891 / 91	899 / 136	892 / 179	872 / 222	837 / 264
	420	834 / 77	840 / 120	833 / 161	812 / 201	777 / 242
	400	785 / 67	785 / 106	780 / 146	753 / 183	737 / 228
	370	738 / 58	743 / 96	735 / 134	713 / 171	677 / 209
	350	700 / 51	704 / 88	696 / 124	674 / 160	637 / 197
	330	661 / 45	665 / 80	657 / 115	635 / 150	597 / 186
	310	623 / 40	627 / 73	618 / 107	595 / 141	558 / 176
	290	585 / 35	588 / 67	579 / 99	556 / 132	518 / 167
2.5	450	1108 / 158	1119 / 212	1115 / 264	1097 / 315	1065 / 365
	420	1035 / 132	1045 / 184	1040 / 233	1021 / 281	988 / 328
	400	987 / 117	997 / 166	991 / 214	972 / 260	938 / 305
	370	915 / 97	923 / 143	917 / 187	897 / 231	862 / 274
	350	867 / 85	874 / 129	868 / 171	847 / 213	812 / 255
	330	819 / 74	826 / 116	819 / 156	798 / 196	762 / 237
	310	771 / 64	777 / 104	770 / 143	748 / 181	712 / 220
	290	724 / 55	729 / 93	721 / 130	699 / 167	662 / 205
3.0	450	1326 / 256	1341 / 319	1340 / 379	1325 / 438	1295 / 496
	420	1238 / 213	1252 / 272	1250 / 329	1233 / 385	1203 / 440
	400	1180 / 187	1193 / 244	1190 / 299	1173 / 352	1141 / 405
	370	1093 / 153	1104 / 206	1100 / 258	1082 / 308	1049 / 357
	350	1035 / 133	1046 / 184	1041 / 233	1022 / 281	988 / 328
	330	978 / 114	987 / 163	981 / 210	962 / 256	928 / 301
	310	920 / 98	928 / 144	922 / 189	902 / 233	867 / 276
	290	862 / 84	870 / 127	863 / 170	842 / 211	807 / 253

Table 16. Heating airflow performance - models A952V080BU4S and A952V080BD4S (continued)

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
3.5	450	1546 / 392	1565 / 462	1567 / 531	1555 / 597	1529 / 663
	420	1443 / 323	1460 / 390	1461 / 455	1447 / 518	1419 / 580
	400	1374 / 283	1390 / 347	1391 / 410	1376 / 470	1347 / 530
	370	1272 / 229	1287 / 290	1285 / 348	1269 / 405	1239 / 461
	350	1204 / 198	1217 / 256	1215 / 311	1198 / 366	1167 / 419
	330	1137 / 169	1149 / 225	1145 / 278	1127 / 329	1095 / 380
	310	1069 / 144	1080 / 197	1075 / 247	1057 / 296	1024 / 345
	290	1002 / 122	1011 / 172	1006 / 219	987 / 266	953 / 312
4.0[a]	450	1769 / 570	1791 / 648	1797 / 724	1788 / 799	1765 / 872
	420	1650 / 469	1670 / 543	1674 / 615	1664 / 686	1639 / 755
	400	1571 / 409	1590 / 481	1593 / 550	1581 / 618	1555 / 684
	370	1453 / 330	1470 / 397	1471 / 462	1458 / 525	1430 / 588
	350[a]	1374 / 283	1390 / 347	1391 / 410	1376 / 470	1347 / 530
	330	1296 / 241	1311 / 303	1310 / 362	1294 / 420	1264 / 477
	310	1219 / 204	1232 / 263	1230 / 319	1213 / 374	1182 / 428
	290	1141 / 171	1153 / 227	1150 / 280	1132 / 332	1100 / 383

[a] Factory Setting

Table 17. Heating airflow performance - model A952V080CU5S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1190	1st Stage	857	CFM / Watts	837 / 67	821 / 109	804 / 150	787 / 192	771 / 233
			Temp. Rise	55	56	57	58	59
	2nd Stage	1190	CFM / Watts	1114 / 126	1127 / 188	1140 / 250	1153 / 311	1167 / 373
			Temp. Rise	64	63	62	61	60
1450[a]	1st Stage	1044	CFM / Watts	967 / 90	993 / 144	1018 / 198	1044 / 252	1070 / 305
			Temp. Rise	47	46	45	44	43
	2nd Stage	1450	CFM / Watts	1359 / 216	1377 / 290	1395 / 364	1413 / 439	1431 / 513
			Temp. Rise	52	51	50	50	49
1560	1st Stage	1123	CFM / Watts	1059 / 108	1057 / 164	1055 / 221	1053 / 278	1051 / 335
			Temp. Rise	43	43	43	43	43
	2nd Stage	1560	CFM / Watts	1466 / 263	1473 / 344	1481 / 425	1489 / 506	1497 / 587
			Temp. Rise	47	47	47	47	47
1700	1st Stage	1224	CFM / Watts	1266 / 133	1170 / 193	1075 / 253	979 / 313	884 / 372
			Temp. Rise	36	39	42	46	49
	2nd Stage	1700	CFM / Watts	1773 / 355	1731 / 436	1689 / 518	1646 / 599	1604 / 681
			Temp. Rise	40	41	42	43	44

[a] Factory Setting

Table 18. Cooling airflow performance - model A952V080CU5S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
3.0	450	1334 / 181	1346 / 241	1356 / 303	1362 / 366	1366 / 431
	420	1246 / 152	1258 / 207	1267 / 265	1273 / 325	1277 / 387
	400	1187 / 134	1199 / 187	1208 / 243	1213 / 300	1216 / 359
	370	1099 / 110	1111 / 160	1118 / 212	1122 / 266	1124 / 322
	350	1041 / 96	1051 / 143	1058 / 193	1061 / 244	1062 / 298
	330	983 / 83	992 / 128	997 / 175	999 / 225	999 / 277
	310	925 / 71	932 / 114	936 / 159	936 / 207	935 / 257
	290	867 / 61	873 / 101	874 / 144	872 / 190	870 / 238
3.5	450	1557 / 273	1567 / 342	1575 / 413	1581 / 485	1584 / 559
	420	1453 / 227	1464 / 292	1473 / 358	1479 / 426	1483 / 496
	400	1384 / 200	1395 / 261	1405 / 325	1411 / 390	1415 / 457
	370	1280 / 163	1292 / 220	1301 / 279	1308 / 341	1311 / 403
	350	1212 / 141	1224 / 195	1232 / 252	1238 / 310	1241 / 371
	330	1143 / 121	1155 / 173	1163 / 227	1168 / 282	1171 / 340
	310	1075 / 104	1086 / 152	1093 / 204	1097 / 257	1099 / 312
	290	1007 / 88	1017 / 134	1022 / 182	1025 / 233	1026 / 286
4.0	450	1781 / 392	1788 / 470	1794 / 550	1797 / 632	1798 / 715
	420	1661 / 325	1670 / 398	1677 / 473	1682 / 550	1684 / 628
	400	1582 / 285	1592 / 355	1600 / 427	1605 / 500	1608 / 575
	370	1463 / 231	1474 / 296	1483 / 363	1489 / 432	1493 / 502
	350	1384 / 200	1395 / 261	1405 / 325	1411 / 390	1415 / 457
	330	1305 / 171	1317 / 229	1326 / 290	1332 / 352	1336 / 416
	310	1226 / 146	1238 / 201	1247 / 258	1253 / 317	1256 / 377
	290	1148 / 123	1160 / 174	1168 / 228	1173 / 284	1176 / 342
4.5	450	2008 / 542	2010 / 629	2011 / 719	2011 / 810	2008 / 902
	420	1872 / 448	1877 / 530	1881 / 614	1883 / 699	1882 / 786
	400	1781 / 392	1788 / 470	1794 / 550	1797 / 632	1798 / 715
	370	1647 / 317	1656 / 390	1663 / 464	1668 / 540	1670 / 618
	350	1557 / 273	1567 / 342	1575 / 413	1581 / 485	1584 / 559
	330	1468 / 233	1479 / 298	1488 / 366	1494 / 434	1498 / 504
	310	1379 / 198	1391 / 259	1400 / 323	1406 / 388	1410 / 454
	290	1290 / 166	1302 / 224	1311 / 284	1318 / 345	1321 / 408
5.0[(a)]	450	2235 / 726	2233 / 823	2229 / 922	2224 / 1023	2216 / 1124
	420	2083 / 599	2084 / 690	2084 / 783	2082 / 877	2077 / 972
	400	1982 / 523	1986 / 610	1987 / 699	1987 / 789	1985 / 880
	370	1832 / 422	1838 / 503	1842 / 585	1844 / 669	1844 / 754
	350[(a)]	1731 / 363	1739 / 439	1745 / 517	1749 / 597	1750 / 678
	330	1632 / 309	1641 / 381	1648 / 455	1653 / 531	1656 / 608
	310	1532 / 261	1543 / 329	1551 / 399	1557 / 471	1560 / 543
	290	1433 / 219	1445 / 283	1453 / 348	1460 / 416	1464 / 484

[(a)] Factory Setting

Table 19. Heating airflow performance - model A952V100CU5S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1590	1st Stage	1145	CFM / Watts	1111 / 135	1097 / 184	1083 / 234	1068 / 283	1054 / 333
			Temp. Rise	52	52	52	52	53
	2nd Stage	1590	CFM / Watts	1564 / 323	1550 / 397	1536 / 470	1522 / 544	1508 / 618
			Temp. Rise	58	58	58	58	59
1980	1st Stage	1426	CFM / Watts	1393 / 232	1383 / 286	1372 / 340	1362 / 394	1352 / 447
			Temp. Rise	41	41	42	42	42
	2nd Stage	1980	CFM / Watts	1959 / 597	1936 / 681	1913 / 764	1891 / 847	1868 / 930
			Temp. Rise	46	46	47	47	47
2060[a]	1st Stage	1483	CFM / Watts	1451 / 260	1447 / 310	1443 / 360	1438 / 410	1434 / 460
			Temp. Rise	39	40	40	40	40
	2nd Stage	2060	CFM / Watts	2047 / 655	2034 / 737	2021 / 818	2008 / 900	1995 / 982
			Temp. Rise	44	44	44	45	45
2150	1st Stage	1548	CFM / Watts	1495 / 285	1477 / 352	1458 / 419	1439 / 486	1421 / 553
			Temp. Rise	38	39	39	40	40
	2nd Stage	2150	CFM / Watts	2102 / 745	2087 / 801	2073 / 857	2058 / 913	2044 / 969
			Temp. Rise	43	43	43	44	44

[a] Factory Setting

Table 20. Heating airflow performance - model A952V100CD5S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1520	1st Stage	1094	CFM / Watts	1093 / 126	1092 / 183	1090 / 240	1089 / 296	1088 / 353
			Temp. Rise	53	53	53	52	52
	2nd Stage	1520	CFM / Watts	1484 / 296	1477 / 370	1469 / 444	1461 / 518	1453 / 592
			Temp. Rise	60	60	61	61	61
1800	1st Stage	1296	CFM / Watts	1234 / 186	1238 / 243	1242 / 299	1247 / 356	1251 / 413
			Temp. Rise	47	47	47	47	47
	2nd Stage	1800	CFM / Watts	1693 / 449	1688 / 533	1684 / 618	1679 / 702	1674 / 786
			Temp. Rise	53	53	53	53	53
1870[a]	1st Stage	1346	CFM / Watts	1279 / 214	1268 / 268	1256 / 321	1245 / 375	1234 / 428
			Temp. Rise	45	45	46	46	47
	2nd Stage	1870	CFM / Watts	1768 / 505	1772 / 591	1775 / 678	1778 / 765	1781 / 852
			Temp. Rise	51	50	50	50	50
2100	1st Stage	1512	CFM / Watts	1453 / 277	1429 / 344	1405 / 411	1381 / 478	1358 / 545
			Temp. Rise	40	40	41	41	42
	2nd Stage	2100	CFM / Watts	1969 / 723	1956 / 789	1944 / 854	1931 / 920	1918 / 986
			Temp. Rise	45	45	46	46	46

[a] Factory Setting

Table 21. Heating airflow performance - models A952V100CU5S and A952V100CD5S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
2.5	450	1152 / 111	1149 / 158	1147 / 208	1144 / 260	1140 / 314
	420	1076 / 93	1072 / 138	1070 / 185	1068 / 234	1063 / 286
	400	1060 / 89	1056 / 133	1053 / 180	1044 / 227	1021 / 272
	370	949 / 68	944 / 108	941 / 151	939 / 197	934 / 246
	350	898 / 60	892 / 98	890 / 139	886 / 184	882 / 232
	330	847 / 52	841 / 88	837 / 128	834 / 172	829 / 219
	310	796 / 45	788 / 80	785 / 118	782 / 161	777 / 207
	290	744 / 39	736 / 72	732 / 109	729 / 151	723 / 197
3.0	450	1378 / 178	1376 / 234	1374 / 292	1371 / 352	1367 / 413
	420	1288 / 148	1285 / 201	1284 / 256	1281 / 312	1277 / 370
	400	1228 / 131	1225 / 181	1223 / 233	1220 / 288	1216 / 344
	370	1137 / 107	1134 / 154	1132 / 203	1129 / 254	1125 / 308
	350	1076 / 93	1072 / 138	1070 / 185	1068 / 234	1063 / 286
	330	1016 / 80	1011 / 123	1009 / 168	1006 / 215	1002 / 266
	310	954 / 69	949 / 109	947 / 152	944 / 198	939 / 247
	290	893 / 59	887 / 97	884 / 138	881 / 183	877 / 230
3.5	450	1601 / 269	1599 / 334	1597 / 401	1594 / 469	1589 / 538
	420	1497 / 223	1495 / 284	1493 / 347	1490 / 411	1486 / 476
	400	1428 / 196	1425 / 254	1424 / 314	1421 / 375	1417 / 438
	370	1323 / 159	1320 / 213	1319 / 269	1316 / 327	1312 / 386
	350	1253 / 138	1250 / 189	1248 / 242	1246 / 298	1242 / 355
	330	1183 / 118	1179 / 167	1177 / 218	1175 / 271	1171 / 326
	310	1112 / 101	1108 / 147	1106 / 195	1103 / 246	1099 / 299
	290	1041 / 86	1037 / 129	1034 / 175	1032 / 223	1027 / 274
4.0	450	1820 / 387	1818 / 461	1816 / 537	1812 / 614	1807 / 692
	420	1703 / 320	1701 / 390	1699 / 461	1696 / 533	1691 / 606
	400	1625 / 280	1623 / 347	1621 / 414	1618 / 483	1614 / 554
	370	1507 / 227	1505 / 288	1503 / 352	1500 / 416	1496 / 482
	350	1428 / 196	1425 / 254	1424 / 314	1421 / 375	1417 / 438
	330	1348 / 168	1346 / 222	1344 / 279	1341 / 338	1337 / 398
	310	1268 / 142	1265 / 194	1263 / 248	1261 / 304	1257 / 361
	290	1188 / 120	1184 / 168	1182 / 219	1180 / 272	1176 / 328
4.5	450	2036 / 537	2034 / 620	2030 / 705	2026 / 791	2020 / 879
	420	1907 / 443	1905 / 521	1902 / 600	1898 / 681	1892 / 763
	400	1820 / 387	1818 / 461	1816 / 537	1812 / 614	1807 / 692
	370	1689 / 313	1687 / 381	1685 / 452	1682 / 523	1677 / 596
	350	1601 / 269	1599 / 334	1597 / 401	1594 / 469	1589 / 538
	330	1512 / 229	1510 / 291	1508 / 354	1505 / 419	1501 / 485
	310	1423 / 194	1420 / 252	1419 / 312	1416 / 373	1412 / 436
	290	1333 / 163	1331 / 217	1329 / 273	1326 / 331	1322 / 391

Table 21. Heating airflow performance - models A952V100CU5S and A952V100CD5S (continued)

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
5.0[a]	450	2248 / 721	2245 / 814	2241 / 909	2235 / 1004	2228 / 1100
	420	2107 / 594	2105 / 681	2101 / 769	2096 / 858	2089 / 948
	400	2012 / 519	2010 / 601	2007 / 685	2002 / 770	1996 / 856
	370	1868 / 418	1866 / 494	1864 / 572	1860 / 651	1854 / 731
	350[a]	1771 / 358	1770 / 430	1767 / 504	1764 / 579	1759 / 655
	330	1674 / 305	1672 / 373	1670 / 443	1667 / 514	1662 / 586
	310	1576 / 257	1574 / 321	1572 / 387	1569 / 454	1565 / 523
	290	1477 / 215	1475 / 275	1473 / 337	1471 / 400	1466 / 465

[a] Factory Setting

Table 22. Heating airflow performance - model A952V120DU5S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1560	1st Stage	1123	CFM / Watts	1138 / 115	1158 / 176	1178 / 236	1198 / 297	1218 / 358
			Temp. Rise	61	60	59	58	57
	2nd Stage	1560	CFM / Watts	1654 / 291	1637 / 360	1621 / 430	1604 / 499	1587 / 568
			Temp. Rise	65	66	67	67	68
1850	1st Stage	1332	CFM / Watts	1371 / 182	1383 / 251	1394 / 320	1406 / 389	1417 / 457
			Temp. Rise	51	50	50	49	49
	2nd Stage	1850	CFM / Watts	1980 / 456	1951 / 539	1922 / 621	1893 / 704	1864 / 787
			Temp. Rise	55	56	57	58	58
1950[a]	1st Stage	1404	CFM / Watts	1440 / 208	1450 / 283	1461 / 357	1471 / 431	1482 / 505
			Temp. Rise	48	48	48	47	47
	2nd Stage	1950	CFM / Watts	2075 / 527	2037 / 611	1999 / 696	1961 / 781	1923 / 865
			Temp. Rise	52	53	54	55	56
2250	1st Stage	1620	CFM / Watts	1669 / 315	1674 / 388	1680 / 460	1685 / 533	1691 / 605
			Temp. Rise	42	42	41	41	41
	2nd Stage	2250	CFM / Watts	2280 / 795	2197 / 819	2114 / 842	2032 / 865	1949 / 888
			Temp. Rise	48	50	52	54	56

[a] Factory Setting

Table 23. Heating airflow performance - model A952V120DD5S

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1750	1st Stage	1160	CFM / Watts	1234 / 137	1240 / 198	1246 / 258	1252 / 319	1258 / 380
			Temp. Rise	56	56	56	55	55
	2nd Stage	1750	CFM / Watts	1687 / 327	1673 / 407	1659 / 487	1645 / 568	1631 / 648
			Temp. Rise	63	64	64	65	65
1850	1st Stage	1332	CFM / Watts	1305 / 158	1311 / 221	1318 / 284	1325 / 347	1332 / 410
			Temp. Rise	53	53	53	52	52
	2nd Stage	1850	CFM / Watts	1788 / 380	1771 / 464	1754 / 549	1738 / 633	1721 / 718
			Temp. Rise	60	60	61	61	62

Table 23. Heating airflow performance - model A952V120DD5S (continued)

Furnace Heating Airflow (CFM), Power (Watts), and Temp. Rise (°F) vs. External Static Pressure with Filter (iwc)								
Airflow Setting	Heating Stage	Target Airflow		External Static Pressure (In. W. C.)				
				0.1	0.3	0.5	0.7	0.9
1950	1st Stage	1404	CFM / Watts	1324 / 179	1510 / 246	1697 / 313	1884 / 380	2070 / 447
			Temp. Rise	53	46	39	32	25
	2nd Stage	1950	CFM / Watts	1891 / 424	1862 / 524	1833 / 624	1803 / 724	1774 / 824
			Temp. Rise	56	57	58	60	61
2250[a]	1st Stage	1620	CFM / Watts	1598 / 266	1484 / 316	1371 / 366	1257 / 416	1144 / 466
			Temp. Rise	44	47	49	52	54
	2nd Stage	2250	CFM / Watts	2080 / 708	2100 / 768	2120 / 828	2140 / 888	2160 / 948
			Temp. Rise	51	51	51	51	51

[a] Factory Setting

Table 24. Cooling airflow performance - models A952V120DU5S and A952V120DD5S

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
3.0	450	1336 / 163	1346 / 221	1353 / 280	1359 / 341	1363 / 401
	420	1247 / 136	1257 / 191	1265 / 247	1270 / 303	1274 / 360
	400	1189 / 120	1198 / 173	1205 / 226	1211 / 280	1214 / 335
	370	1101 / 99	1109 / 148	1116 / 198	1120 / 249	1123 / 300
	350	1043 / 86	1050 / 133	1056 / 180	1060 / 229	1062 / 279
	330	985 / 75	991 / 119	996 / 164	999 / 211	1000 / 259
	310	926 / 65	931 / 106	935 / 149	937 / 194	937 / 240
	290	869 / 56	872 / 95	874 / 136	875 / 178	874 / 223
3.5	450	1558 / 244	1567 / 312	1574 / 380	1579 / 449	1582 / 519
	420	1454 / 203	1464 / 266	1471 / 331	1477 / 396	1480 / 461
	400	1385 / 179	1395 / 239	1403 / 301	1408 / 363	1412 / 425
	370	1282 / 146	1292 / 202	1299 / 259	1305 / 317	1309 / 376
	350	1213 / 127	1223 / 180	1230 / 235	1235 / 290	1239 / 346
	330	1145 / 109	1154 / 160	1161 / 211	1166 / 264	1169 / 317
	310	1077 / 94	1085 / 141	1091 / 190	1095 / 240	1098 / 291
	290	1009 / 80	1016 / 125	1021 / 171	1024 / 218	1026 / 267
4.0	450	1783 / 349	1789 / 426	1793 / 505	1796 / 583	1797 / 662
	420	1663 / 290	1670 / 362	1676 / 435	1680 / 509	1683 / 582
	400	1583 / 254	1591 / 323	1598 / 393	1603 / 463	1606 / 534
	370	1464 / 207	1473 / 270	1481 / 335	1486 / 401	1490 / 466
	350	1385 / 179	1395 / 239	1403 / 301	1408 / 363	1412 / 425
	330	1306 / 153	1316 / 211	1324 / 269	1330 / 328	1333 / 387
	310	1228 / 131	1237 / 185	1245 / 240	1250 / 295	1254 / 352
	290	1150 / 111	1159 / 161	1166 / 213	1171 / 266	1174 / 319
4.5	450	2009 / 482	2011 / 569	2011 / 657	2011 / 745	2009 / 833
	420	1873 / 399	1877 / 480	1880 / 562	1882 / 644	1882 / 727
	400	1783 / 349	1789 / 426	1793 / 505	1796 / 583	1797 / 662
	370	1648 / 283	1655 / 354	1661 / 427	1666 / 500	1668 / 573
	350	1558 / 244	1567 / 312	1574 / 380	1579 / 449	1582 / 519
	330	1469 / 209	1478 / 273	1486 / 338	1491 / 403	1495 / 469
	310	1380 / 177	1390 / 237	1398 / 299	1403 / 361	1407 / 423
	290	1292 / 149	1301 / 206	1309 / 263	1315 / 322	1318 / 380

Table 24. Cooling airflow performance - models A952V120DU5S and A952V120DD5S (continued)

Outdoor Tonnage (tons)	Airflow Setting (CFM/ton)	External Static Pressure (In. W. C.) vs. CFM/WATTS				
		0.1	0.3	0.5	0.7	0.9
5.0[a]	450	2238 / 645	2234 / 742	2230 / 839	2225 / 937	2220 / 1035
	420	2085 / 533	2085 / 623	2084 / 714	2082 / 805	2080 / 897
	400	1984 / 466	1986 / 551	1987 / 638	1987 / 725	1986 / 813
	370	1833 / 376	1838 / 456	1841 / 536	1844 / 617	1844 / 698
	350[a]	1733 / 323	1739 / 399	1744 / 475	1748 / 551	1750 / 628
	330	1633 / 276	1641 / 347	1647 / 419	1651 / 491	1654 / 564
	310	1533 / 234	1542 / 300	1549 / 368	1554 / 436	1558 / 505
	290	1434 / 196	1444 / 258	1452 / 322	1457 / 386	1461 / 451

[a] Factory Setting

Maximum Vent Length Table

Table 25. Maximum vent length

Model	2-inch or 2.5-inch Pipe	3-inch or 4-inch Pipe
Altitude 0-2,000 FT.		
A952V040B, A952V060B	200	200
A952V080B, A952V080C	100	200
A952V100C	50	200
A952V120D	[a]	200
Altitude 2,001- 5400 FT		
A952V040B, A952V060B	200	200
A952V080B, A952V080C	80	120
A952V100C	50	150
A952V120D	[a]	200
Altitude 5,401-7,800 FT		
A952V040B, A952V060B	100	150
A952V080B, A952V080C	50	70
A952V100C	[a]	100
A952V120D	[a]	100
Altitude 7,801-10,100 FT		
A952V040B, A952V060B	50	90
A952V080B, A952V080C	[a]	50
A952V100C	[a]	50
A952V120D	[a]	50

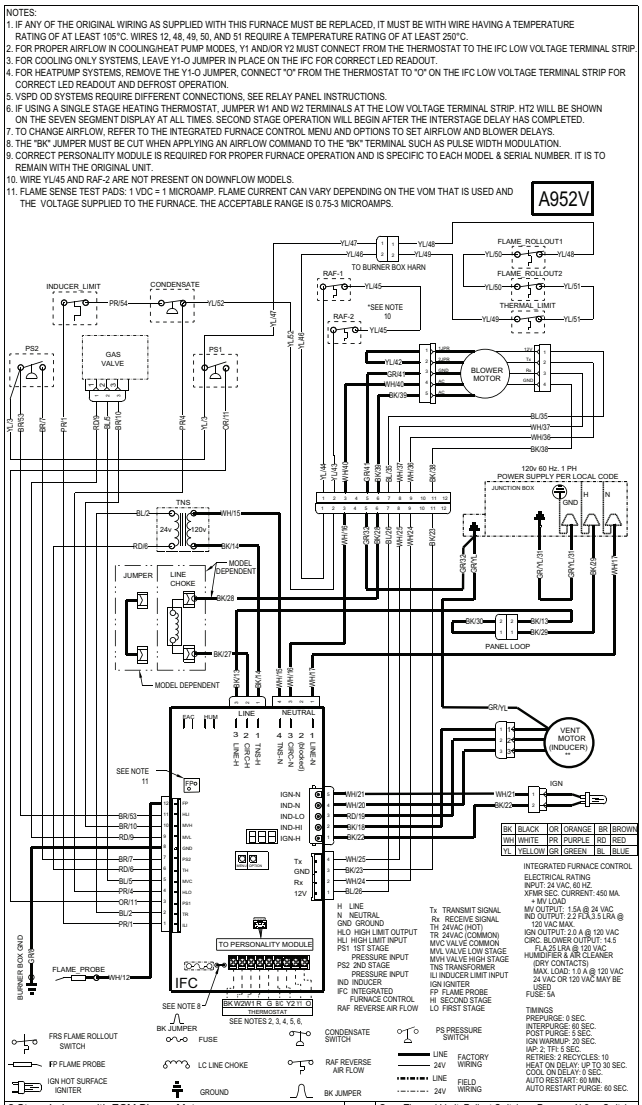
Notes:

1. *Installation Instructions must be followed for installation of the venting system.*
2. *Maximum Total Equivalent Length In Feet for Vent or Inlet Air, not combined total.*
3. *For PolyPro® by Duravent, Z-DENS by Novaflex Group, InnoFlue®by Centrotherm, and Polyflue™ manufactured modular venting systems that are in the approved vent pipe material table, fitting equivalent vent lengths may be different from what is shown in Note 7. Refer to the venting system manufacturer's installation instruction for appropriate venting diameters and equivalent lengths.*
4. *Minimum vent length for all models: 15ft equivalent.*
5. *Do not mix pipe diameters in the same length of pipe outside the furnace cabinet (except adapters at the top of the furnace). If different inlet and vent pipe sizes are used, the vent pipe must adhere to the maximum length limit shown in the table above (See Note 8 below for exception). The inlet pipe can be of a larger diameter, but never smaller than the vent pipe.*
6. *Maximum pipe lengths must not be exceeded. The length shown is not a combined total, it is the maximum length of each (Vent or Inlet air pipes).*
7. *One short radius 90° elbow is equivalent to 10ft of 4-inch pipe, 10ft of 3-inch pipe, or 8ft of 2-inch pipe. One long radius elbow is equivalent to 6ft of 4-inch pipe, 7ft of 3-inch pipe, or 5ft of 2-inch pipe. Two 45° elbows equal one 90° long elbow. One mitered elbow is equivalent to 12ft of 3-inch pipe or 12ft of 2-inch pipe.*
8. *The termination tee or bend must be included in the total number of elbows. If the BAYAIR30AVENTA or BAYAIR30CNVENT termination kit is used, the equivalent length of pipe is 5ft. For BAYVENT200B and BAYVENTCN200B the equivalent length is 0ft.*
9. *For Canadian applications, venting systems must meet ULC-S636 requirements.*
10. *The inlet air of one pipe systems require the installation of a minimum of one 90° elbow (to prevent dust and debris from falling straight into the furnace).*

[a] Not allowed

Wiring Diagrams

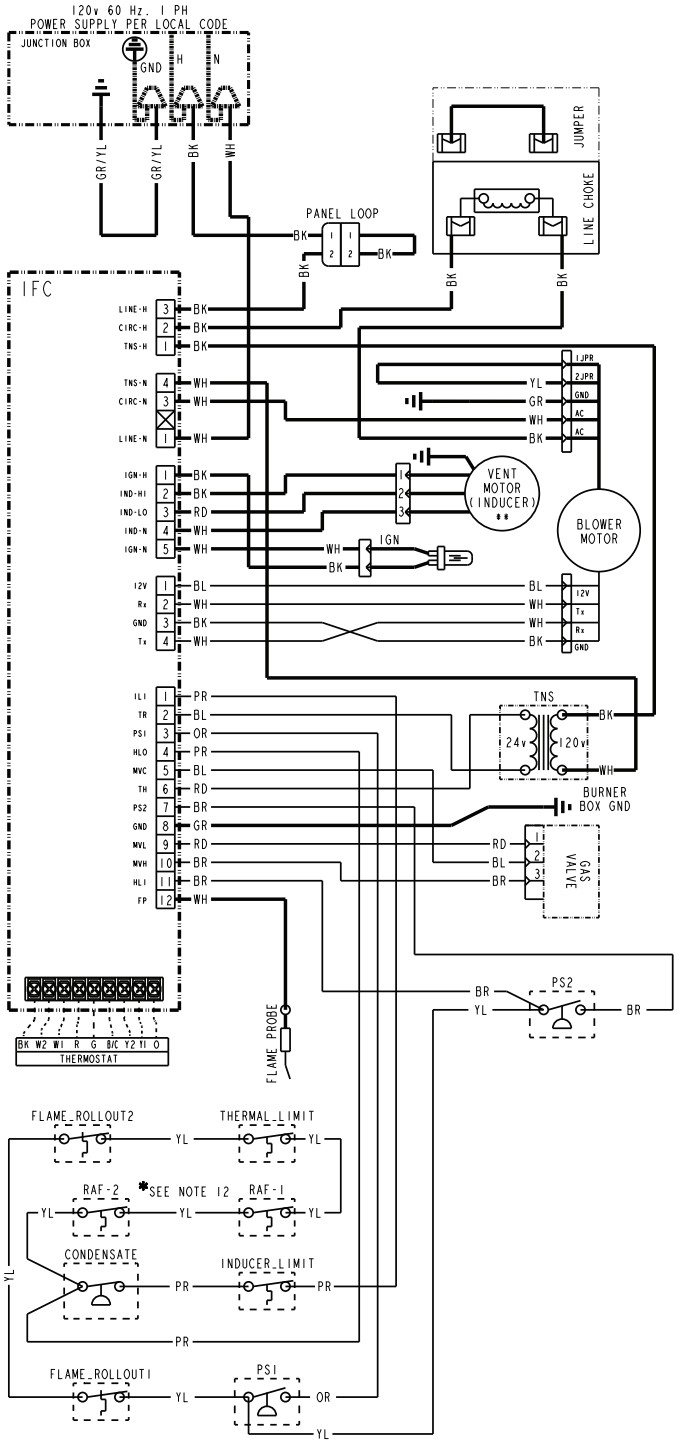
Figure 1. A952V wiring diagram



2 Stage Inducer with ECM Blower Motor					
	Status Codes				
Idle		odU	Outdoor Unit	E04	Open Thermal Limit, Rollout Switch, or Reverse Airflow Switch
1st Stage Heating		CDF	Blower Constant Fan Airflow Multiplier %	E05	Flame detected, should not be present
2nd Stage Heating		CPC	Cooling (CFM/Ton)	E6.1	Voltage reversed polarity
Airflow (followed by Airflow x 10)		CPH	Heat Pump Heating (CFM/Ton)	E6.2	Bad Grounding
		Hod	Heat Off Delay (sec)	E6.3	(1) Igniter relay fails, (2) Igniter open
		Hsd	Inter-Stage Delay (sec)	E7.1	1st stage gas valve (MVL) is energized when it should be off
Continuous Fan		SHC	Gas Heating CFM (Airflow x10)	E08	Flame current is low, but still strong enough to allow operation.
1st Stage Cooling		rUn	Run Test Mode	E09	Open Inducer Limit Switch or Condensate Switch
2nd Stage Cooling			Error Codes	E11	(1) 1st stage gas valve not energized when it should be
1st Stage Heat Pump		E01	Loss of the IRQ/other internal failures		(2) 1st stage gas valve relay stuck closed
2nd Stage Heat Pump		E2.1	Retry exceeded (Failed to est flame)		(3) 2nd stage gas valve relay stuck closed
Defrost Mode		E2.2	Recycles exceeded (loss of established flame) or 10X PS1 open		(4) 2nd stage gas valve energized when it should not be
					(5) 2nd stage gas valve not energized when it should be
Menu Options				E12	Open fuse
Active Alarm Menu		E2.3	1st Stage Gas Valve not energized when it should be exceeded after 10 times	E13	Blower HP/OEM ID
Last 6 Faults (To Clear, Hold Option Button 5 sec)				E14	No PM and local copy bad
		E3.1	Shorted Pressure Switch, 1st Stage	E15	Both Unit Data File in PM and local Unit Data File are Corrupt
Code Release Number		E3.2	Open Pressure Switch, 1st Stage		
Cooling Off Delay (sec)		E3.3	Shorted Pressure Switch, 2nd Stage	E17	Blower motor no communication response
Outdoor Tonnage		E3.4	Open Pressure Switch, 2nd Stage	E18	Blower communication failure on the control

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Figure 2. A952V - ladder diagram



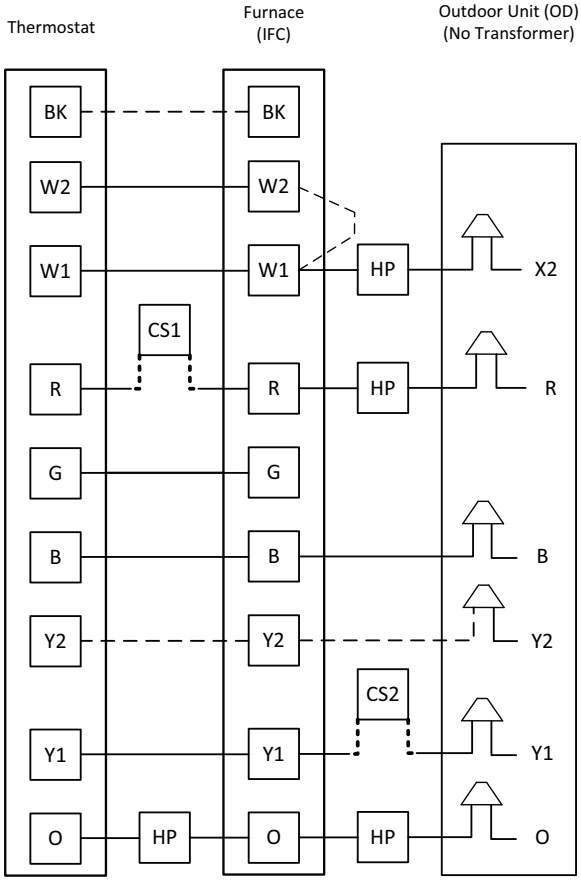
Electrical Connections

Make wiring connections to the unit as indicated on enclosed wiring diagram. As with all gas appliances using electrical power, this furnace shall be connected into a permanently live electric circuit. It is recommended that furnace be provided with a separate "circuit protection device" electric circuit. The furnace must be electrically grounded in accordance with local codes or in the absence of local codes with the National Electrical Code, ANSI/NFPA 70 or CSA C22.1 Electrical Code, if an external electrical source is utilized. The integrated furnace control is polarity sensitive. The hot leg of the 120V power supply must be connected to the black power lead as indicated on the wiring diagram.

Refer to the Wiring Diagram in this document and Unit Wiring Diagram attached to the furnace.

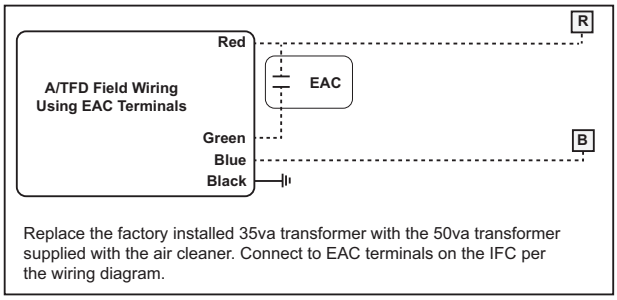
Field Wiring

Figure 3. Field wiring diagram for A952V with one or two stage AC or heat pump



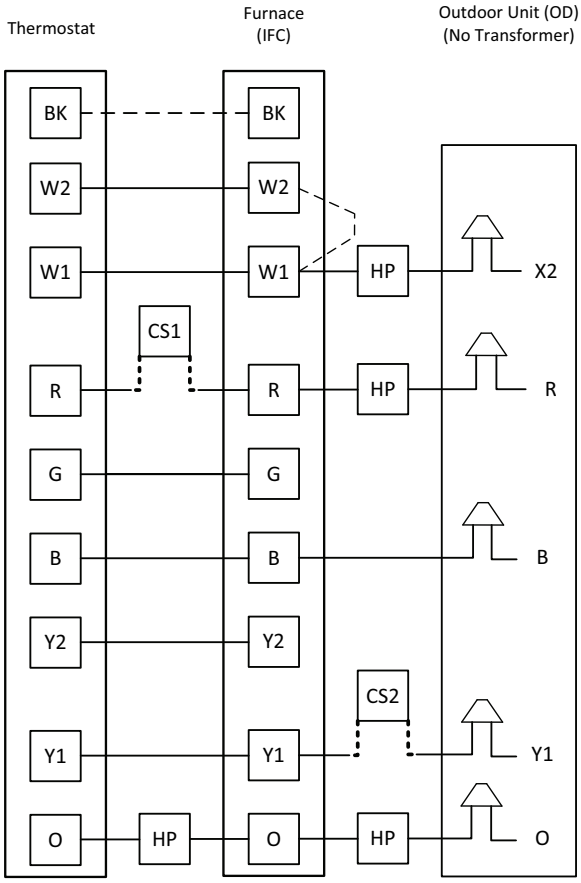
NOTES:

1) HP = Wiring used for Heat Pump System.
2) CS = wiring used for Condensate Switch (2 Options).
3) Y1 and/or Y2 must be connected from the thermostat to the IFC for proper airflow.
4) Remove Y1-O jumper for HP systems. O terminal must be connected as shown for gas heating operation during defrost.
5) If the thermostat does not have a W2, or there are not enough conductors, jumper W1 to W2 at the IFC.
6) A/TCONT824 thermostats do not require the use of X2.
7) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.



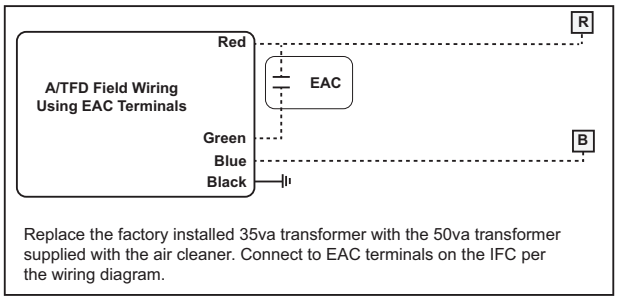
Replace the factory installed 35va transformer with the 50va transformer supplied with the air cleaner. Connect to EAC terminals on the IFC per the wiring diagram.

Figure 4. Field wiring diagram for A952V with single stage AC or heat pump with 2 stage airflow



NOTES:

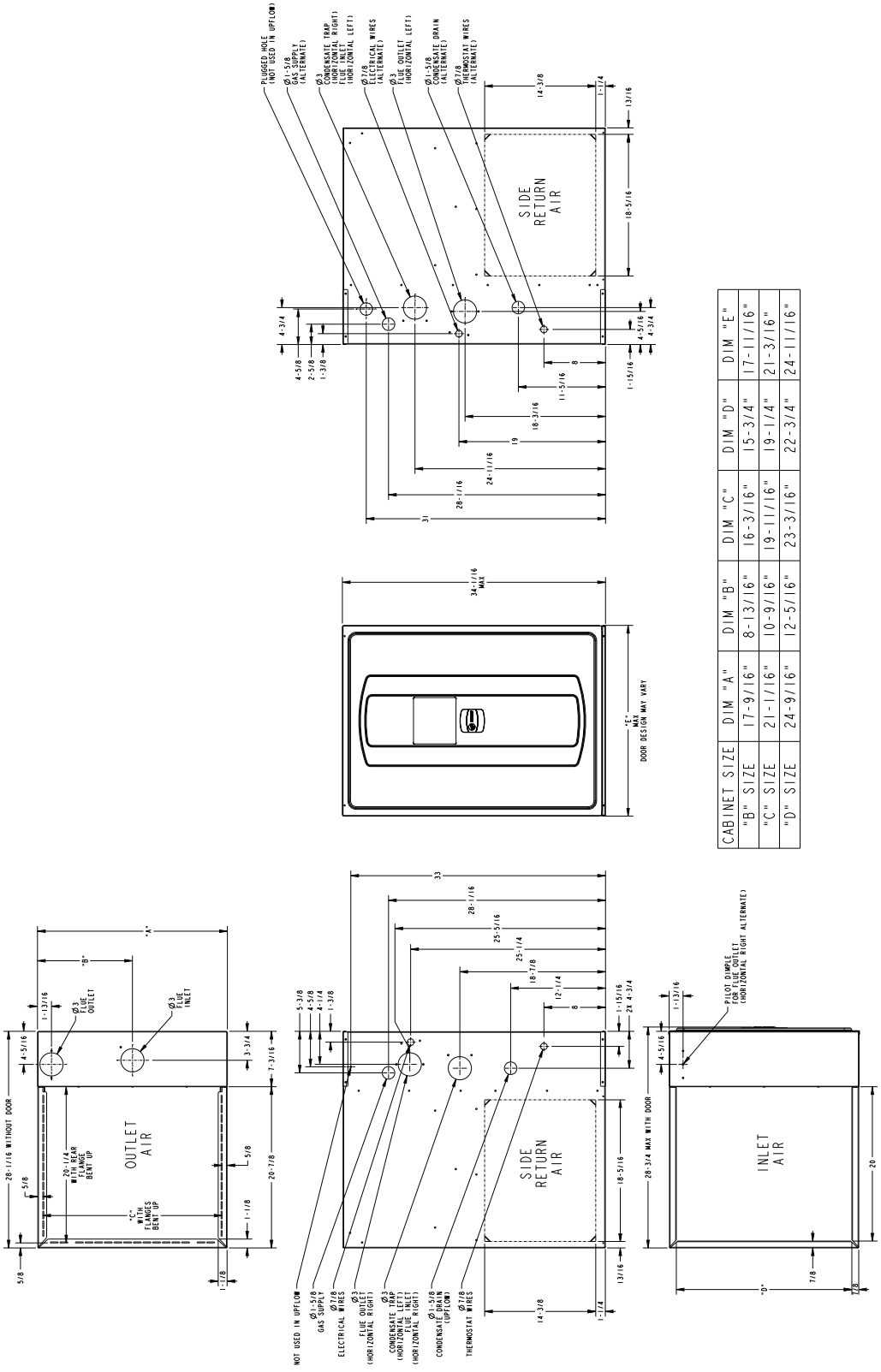
1) HP = Wiring used for Heat Pump System.
2) CS = wiring used for Condensate Switch (2 Options).
3) Y1 and Y2 must be connected from the thermostat to the IFC for proper airflow.
4) Thermostat must be setup for 2 stage OD.
5) IFC Must be setup for 2 stage OD using the Menu/Option Buttons.
6) Remove Y1-O jumper for HP systems. O terminal must be connected as shown for gas heating operation during defrost.
7) If the thermostat does not have a W2, or there are not enough conductors, jumper W1 to W2 at the IFC.
8) A/TCONT824 thermostats do not require the use of X2.
9) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.



Replace the factory installed 35va transformer with the 50va transformer supplied with the air cleaner. Connect to EAC terminals on the IFC per the wiring diagram.

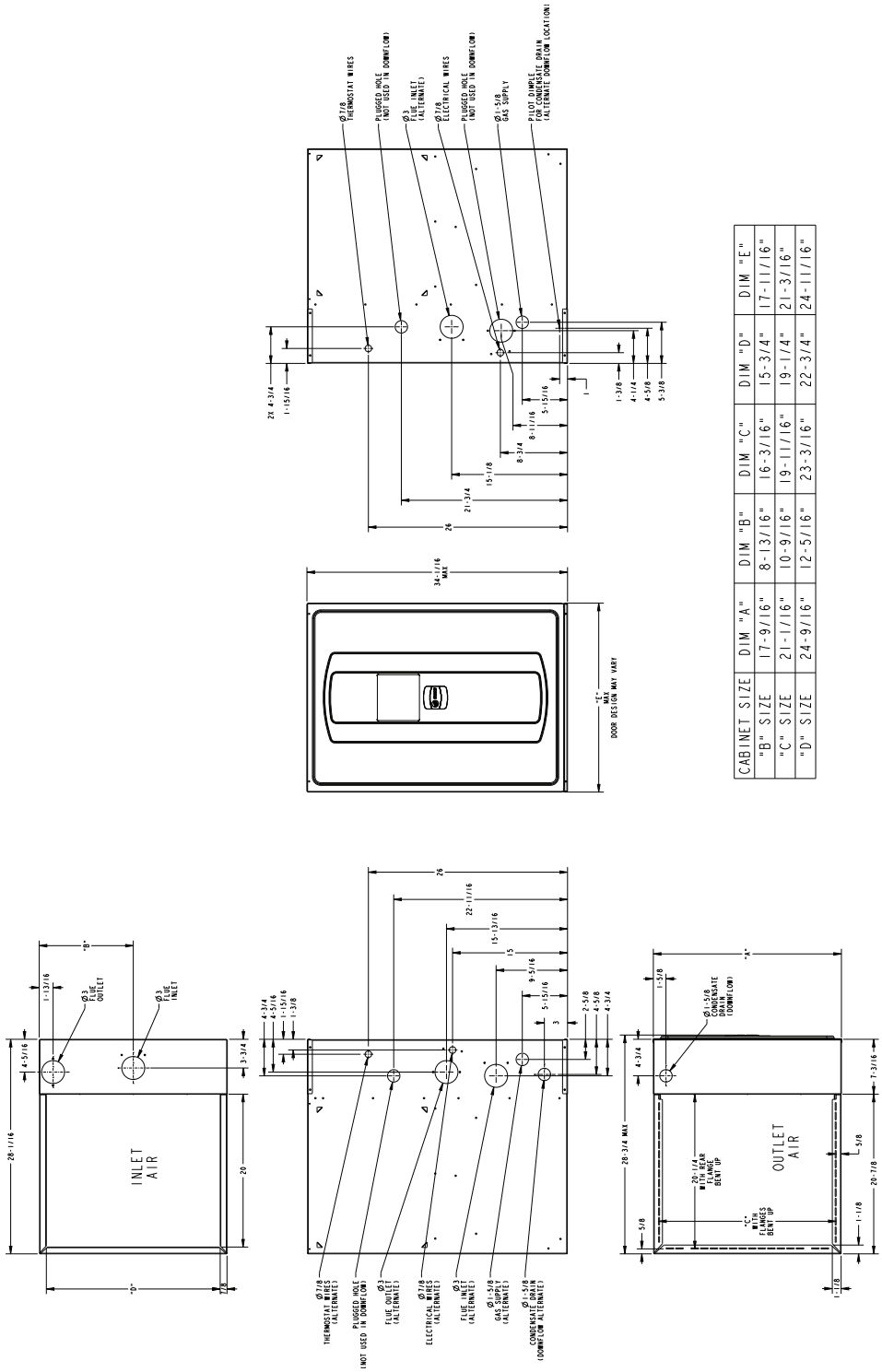
Dimensional Data

Figure 5. 17.5-inch, 21-inch, and 24.5-inch upflow cabinet



CABINET SIZE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
"B" SIZE	17-9/16"	8-13/16"	16-3/16"	15-3/4"	17-11/16"
"C" SIZE	21-1/16"	10-9/16"	19-11/16"	19-1/4"	21-3/16"
"D" SIZE	24-9/16"	12-5/16"	23-3/16"	22-3/4"	24-11/16"

Figure 6. 17.5-inch, 21-inch, and 24.5-inch downflow cabinet



CABINET SIZE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
"B" SIZE	17-9/16"	8-13/16"	16-3/16"	15-3/4"	17-11/16"
"C" SIZE	21-1/16"	10-9/16"	19-11/16"	19-1/4"	21-3/16"
"D" SIZE	24-9/16"	12-5/16"	23-3/16"	22-3/4"	24-11/16"

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