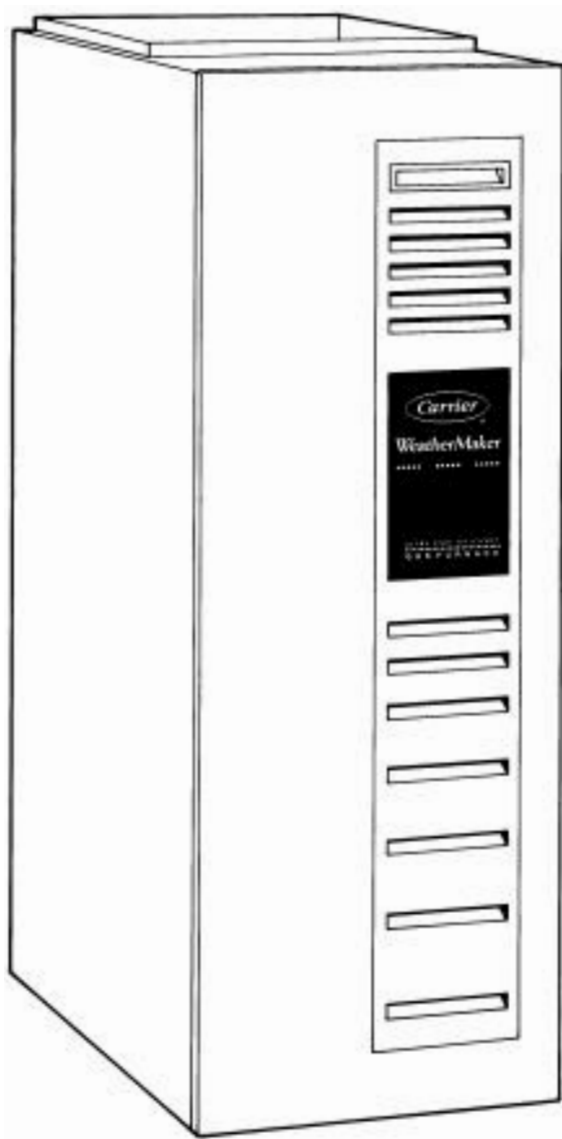




Product Data

58MVP Deluxe 4-Way Multipoise Variable-Capacity Condensing Gas Furnace

Input Capacities:
40,000 thru 100,000 Btuh



Variable capacity, the ultimate in heating comfort . . .

With the model 58MVP WeatherMaker™ Infinity Furnace, we've taken the ultimate in heating comfort and made it better.

The model 58MVP is available in 4 heat/airflow combinations. The unit has a 4-way multipoise design and can be installed in upflow, downflow, or horizontal positions covering up to 16 different applications.

The WeatherMaker Infinity achieves industry-leading ultra-high efficiency at up to 96.6 Annual Fuel Utilization Efficiency (AFUE). Efficient performance is enhanced through the variable-capacity design. To maintain ideal comfort, the control system of the WeatherMaker Infinity automatically adjusts, maximizing the use of low operating speeds that produce near silent furnace operation while meeting the exact heating needs. This unit is designed to keep the indoor temperature within 1 degree of the thermostat set point. Because it operates in low speed most of the time, the model 58MVP uses up to 80% less power and less fuel than single-capacity furnaces.

In addition to providing optimum comfort, the model 58MVP has a sealed combustion system. This system brings combustion air from outdoors to the furnace and vents the flue gases safely outside the home. Because it is sealed, operational noise is minimal. A sealed combustion system also means fewer cold drafts and less air infiltration.

Quality materials are the key behind the model 58MVP's outstanding

quality. We offer lifetime warranty protection* on the heat exchangers, the heart of the WeatherMaker Infinity. The microprocessor control center, the variable-speed inducer motor, and the variable-speed blower motor are all backed by a 5-year limited warranty. There is a 3-year warranty on hot surface ignition (HSI).

The versatile 4-way multipoise design in conjunction with variable capacity makes the 58MVP ideal for use with split-system cooling, including 2-speed or variable-speed units. A Carrier electronic air cleaner, humidifier, comfort ventilator, and Comfort Zone™ will provide year-round comfort and efficiency.

Designed for durability, comfort, and reliability, the model 58MVP WeatherMaker Infinity is the ultimate in versatile, efficient comfort.

58MVP FEATURES/ BENEFITS

Variable Heating Capacity — On the coldest days of the year, the 58MVP Furnace has the capacity to heat your home. On moderate days when less heat is required, this furnace will regulate itself to a lower capacity — providing a comfortable home and minimizing operating costs.

Insulated Blower Compartment — The acoustical insulation reduces air and motor noise for quiet operation.

Certifications — The 58MVP units are A.G.A. and C.G.A. design certified for use with natural and propane gases. The efficiency is GAMA efficiency rating certified. The 58MVP meets the oxides of nitrogen (NO_x) emission levels set by the South Coast and Bay Area Air Quality Management District in California.

*See warranty information for details.

vent pipes can terminate through a side wall or through the roof when used with a factory-authorized vent termination kit.

Blower Access Panel Switch —

Automatically shuts off 24-v power to furnace whenever blower access panel is opened.

Reliable Heat Exchanger Design — The primary heat exchanger is made of aluminized steel for corrosion resistance.

The Serpentuff™ condensing heat exchanger cells are laminated with Polypropylene for greater resistance to corrosion and epoxy coated externally to prevent oxidation. This breakthrough in heating technology helps extend the life of the furnace for years of dependable performance. The heat exchanger is positioned in the furnace to extract additional heat.

Warranty — The 58MVP heat exchangers come with a Limited Warranty for lifetime of original owner in single family residence; 20 years in other residential and commercial applications. Contact your dealer for details.

ICM Electronic Variable-Speed

Motors — Special motors (Integrated Control and Motor) provide variable-speed operation to optimize comfort levels in the home. They are also more economical to operate than standard motors. Motor and electronic controls are guaranteed by a 5-year Limited Warranty.

Microprocessor Control Center —

The microprocessor control center features state-of-the-art combustion, temperature, and airflow control to maximize comfort while operating at peak efficiency.

taking the appropriate inducer motor rpm readings when the low- and high-fire pressure switches are made. Using this information, the microprocessor maintains a consistent air-to-fuel ratio independent of vent sizing and conditions.

The first cycle after power reset provides 16 minutes of low heat before switching to high heat unless the room thermostat has been satisfied. Subsequent thermostat cycles provide anywhere from 0 to 16 minutes of low heat depending on the length of the previous thermostat cycle.

Airflow control is accomplished by using a technique involving the microprocessor and blower motor. The static load on the air delivery system is measured each heating cycle. The microprocessor then uses this information to deliver correct airflow independent of variations in system restrictions. (For example, dirty filter or zone damper changes during a cycle.)

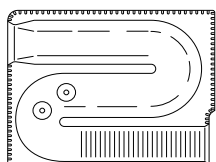
Insulation — Foil-faced insulation in heat exchanger section of the casing minimizes heat loss.

Direct Vent Sealed Combustion

System — Model 58MVP uses 100% outdoor air, which results in especially quiet operation. Direct venting minimizes the possibility of chloride contamination which can result in heat exchanger corrosion and also reduces air infiltration into the home.

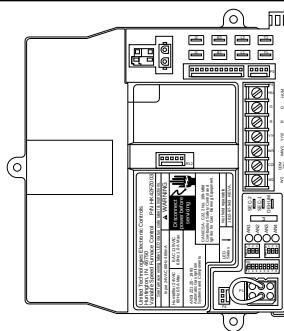
Monoport Burners — The burners are finely tuned for smooth, quiet combustion and economical operation.

Bottom Closure — Factory installed for side return; easily removable for bottom return.



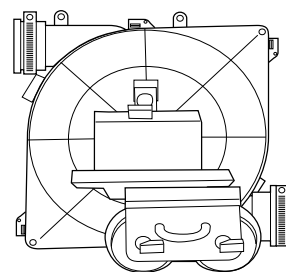
A92505

HEAT EXCHANGERS



A94156

CONTROL CENTER



A93005

INDUCER ASSEMBLY

Model Number Information

	58MVP	040	111	14
4-Way Multipoise Variable-Speed Condensing Gas Furnace				
Input Capacity (Low/High)				
040 — 26,000/40,000 Btuh				
060 — 39,000/60,000 Btuh				
080 — 52,000/80,000 Btuh				
100 — 65,000/100,000 Btuh				
				Cooling Size Airflow (400 CFM per 12,000 Btuh) 14 — 1400 CFM 20 — 2000 CFM
			Series	

Carrier accessories*

UNIT SIZE	040	060	080	100
ELECTRONIC AIR CLEANER (EAC)	Model 31KAX			
HUMIDIFIER	Models 49BF, 49BG, 49BP, 49FH, 49FP, and 49WS			
RETURN-AIR PLENUM (With Washable Filters) UPFLOW ONLY	KGARP0201ALL			
SIDE FILTER RACK (Without Filter) UPFLOW ONLY	KGAFR0206ALL			
GAS CONVERSION KIT— NATURAL-TO-PROPANE	KGANP2402SP			
GAS CONVERSION KIT— PROPANE-TO-NATURAL	KGAPN20012SP			
DOWNFLOW BASE (For Combustible Floors, With or Without A/C Coil)	KGASB0201ALL			
VENT TERMINATION KIT (Bracket Only for 2 Pipes)	2-in. — KGAVT0101BRA	3-in. — KGAVT0201BRA		
CONCENTRIC TERMINATION KIT (Single Exit)	2-in. — KGAVT0501CVT	3-in. — KGAVT0601CVT		
SIDE-WALL VENT TERMINAL COVER	2-in. — KGAVT0301COV	3-in. — KGAVT0401COV		

*Factory authorized and field installed. Gas conversion kits are A.G.A. recognized.

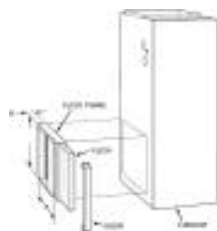


A93067

RETURN-AIR PLENUM

Custom-made return-air plenum can be mounted on either side of the furnace. Two framed washable filters included.

A	25 in.
B	16 in.
C	39-7/8 in.



A93068

SIDE FILTER RACK

Custom-made filter rack for easy connection when a return plenum already exists. Provides easy access for cleaning filter. Orcepis filter.

A	23-1/8 in.
B	2-3/8 in.
C	14-1/2 in.

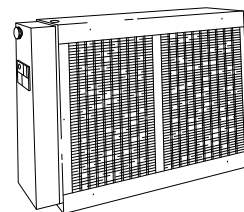


A93086

CONCENTRIC VENT

A concentric vent kit allows vent and combustion-air pipes to terminate through a single exit in a roof or sidewall.

One pipe runs inside the other allowing venting through the inner pipe and combustion air to be drawn through the outer pipe.

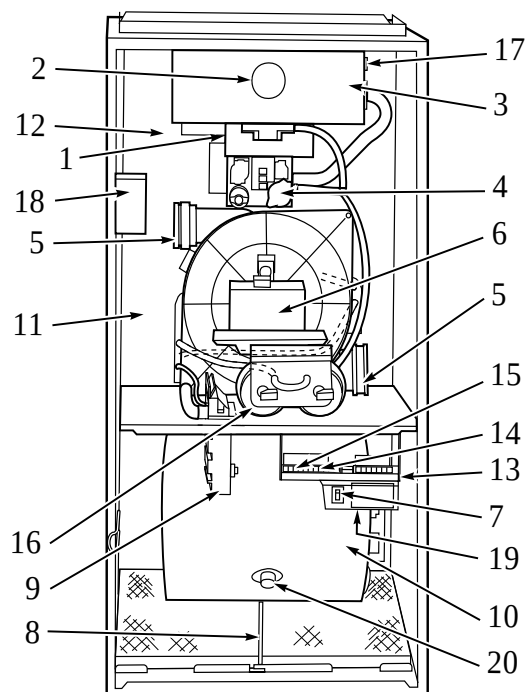


A91465

INDOOR AIR QUALITY

EAC (shown) cleans the air of smoke, dirt, and many pollens.

A Carrier humidifier will add moisture to winter-dry air to improve comfort and help keep household items in better condition. Moisturizing household air also helps to retain body heat and provide comfort at lower temperature.



A93203

NOTE: The 58MVP Furnace is built for use with natural gas. The furnace can be converted for propane gas with a factory-authorized and listed accessory conversion kit.

NOTE: Control location and actual controls may be different than shown above.

- | | |
|---|--|
| <ul style="list-style-type: none"> ❶ Combustion-air intake connection to ensure contaminant-free air (right or left side). ❷ Burner sight glass for viewing burner flame. ❸ Burner assembly (inside). Operates with energy-saving, inshot burners and hot surface ignitor for safe, dependable heating. ❹ Redundant 2-stage gas valve. Safe, efficient. Features 1 gas control with 2 internal shut-off valves. ❺ Vent outlet. Uses PVC pipe to carry vent gases from the furnace's combustion system (right or left side). ❻ Inducer motor. Pulls hot flue gases through the heat exchangers, maintaining negative pressure for added safety. ❼ Blower access panel safety interlock switch. ❽ Air filter and retainer. ❾ Condensate drain connection. Collects moisture condensed from burned gases for disposal into home drain system. ❿ Heavy-duty blower. Circulates air across the heat exchangers to transfer heat into the home. | <ul style="list-style-type: none"> ⓫ Secondary condensing heat exchanger (inside). Wrings out more heat through condensation. Constructed with Polypropylene-laminated steel to ensure durability. ⓬ Primary serpentine heat exchanger (inside). Stretches fuel dollars with the S-shaped heat-flow design. Solid construction of corrosion-resistant aluminized steel means reliability. ⓭ Control center. ⓮ 3-amp fuse provides electrical and component protection. ⓯ Light emitting diode (LED) on control center. Code lights are for diagnosing furnace operation and service requirements. ⓰ Pressure switch(es) ensure adequate flow of flue products through furnace and out vent system. ⓱ Rollout switch (manual reset) to prevent overtemperature. ⓲ Junction box for 115-v electrical power supply. ⓳ Transformer (24v) behind control center provides low-voltage power to furnace control center and thermostat. ⓴ Limit switch (manual reset). |
|---|--|

Physical Data

UNIT SIZE		040	060	080	100
OUTPUT CAPACITY BTUH†	Low/High	25,000/38,600	37,100/57,000	49,400/76,000	61,800/95,000
INPUT BTUH*	Low/High	26,000/40,000	39,000/60,000	52,000/80,000	65,000/100,000
SHIPPING WEIGHT (lb)		205	170	182	203
CERTIFIED TEMP RISE RANGE (°F)	Low/High	35 — 45/40 — 50	60 — 70/50 — 60	60 — 70/50 — 60	60 — 70/60 — 70
CERTIFIED EXT STATIC PRESSURE (ESP) (In. wc)	Heating	0.10	0.12	0.15	0.20
	Cooling	0.50	0.50	0.50	0.50
AIRFLOW CFM‡	Heating Low/High	565 (650**) /780	515 (590**) /925	690 (795**) /1235	860 (990**) /1320
	Cooling	1400	1400	1400	2000
LIMIT CONTROL		SPST			
HEATING BLOWER CONTROL (Off Delay)		Selectable 90, 135, 180, or 225 Sec Intervals			
BURNERS (Monoport)		2	3	4	5
GAS CONNECTION SIZE		1/2-in. NPT			
GAS VALVE (Redundant) Manufacturer		White-Rodgers			
Minimum Inlet Pressure (In. wc)		4.5 (Natural Gas)			
Maximum Inlet Pressure (In. wc)		13.6 (Natural Gas)			
IGNITION DEVICE		Hot Surface			

*Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4% for each 1000 ft above sea level.

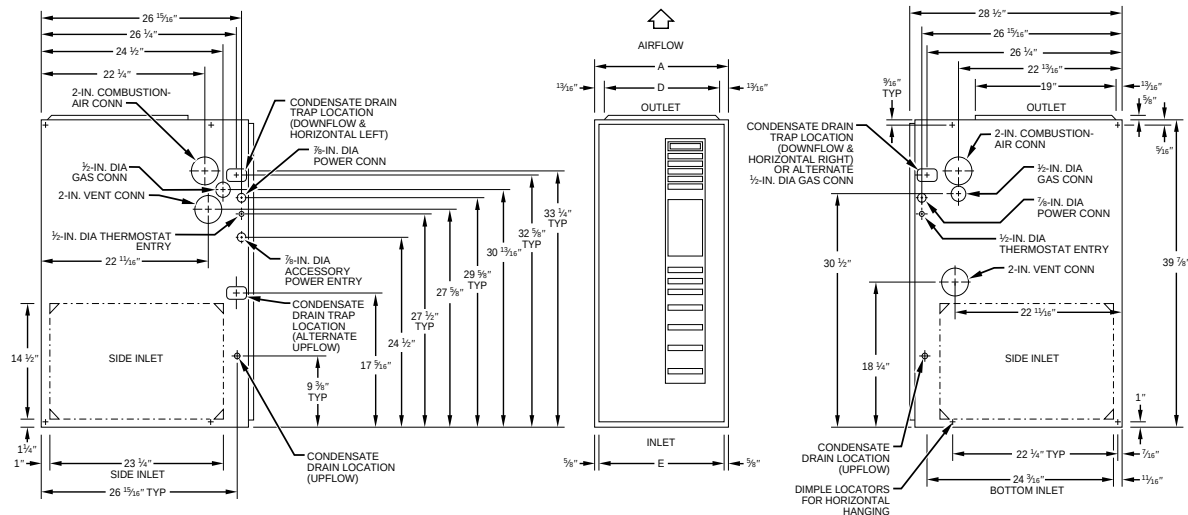
†Capacity in accordance with U.S. Government DOE test procedures.

‡Air delivery above 1800 CFM requires that both sides, a combination of 1 side and bottom, or bottom only of the furnace be used for return air. A filter is required for each return-air supply.

**Low heat CFM when bypass humidifier switch (SW3) on control center is used.

In Canada, derate the unit 10% for elevations from 2000 to 4500 ft above sea level.

Dimensions



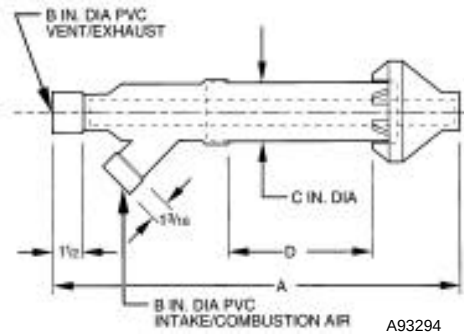
- NOTES: Minimum return-air opening at furnace:
1. For 800 CFM—16-in. round or 14 1/2 x 12-in. rectangle.
 2. For 1200 CFM—20-in. round or 14 1/2 x 19 1/2-in. rectangle.
 3. For 1600 CFM—22-in. round or 14 1/2 x 23 1/4-in. rectangle.
 4. For airflow requirements above 1800 CFM, use both side inlets, a combination of 1 side inlet and the bottom, or the bottom only.

A93024

DIMENSIONS (in.)

UNIT SIZE	A	D	E
040-14	24-1/2*	22-7/8*	22*
060-14	17-1/2	15-7/8	16
080-14	21	19-3/8	19-1/2
100-20	21	19-3/8	19-1/2

*These dimensions reflect the wider casing for the Trophy (96.6% AFUE) furnace.



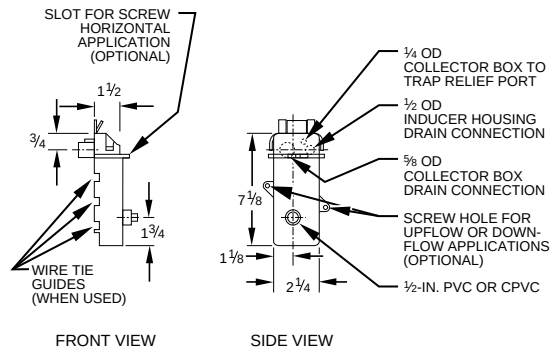
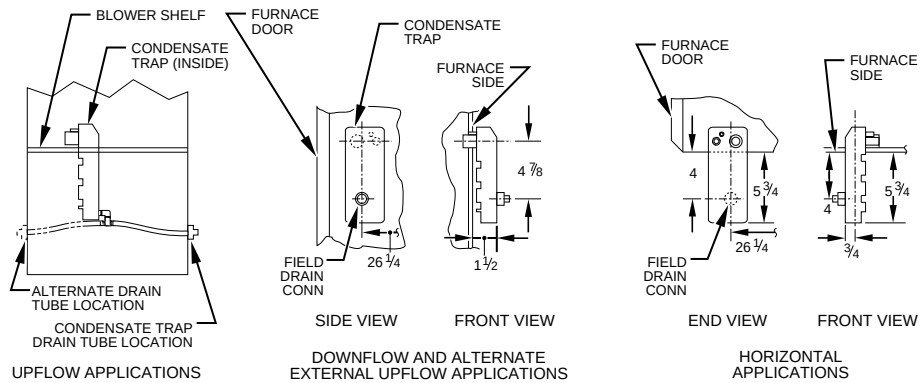
DIMENSIONS (in.)

PART NO.	A*	B	C	D†
KGAVT0501CVT	41-1/8	2	3-1/2	27-1/4
KGAVT0601CVT	46-3/4	3	4-1/2	31-7/8

* Dimension A will change accordingly as dimension D is lengthened or shortened.

† Dimension D may be lengthened to 60 in. maximum. Dimension D may also be shortened by cutting the pipes provided in the kit to 12 in. minimum.

CONDENSATE TRAP



Performance Data

UNIT SIZE	040	060	080	100
DIRECT-DRIVE MOTOR Hp (ICM)	1/2	1/2	1/2	1
MOTOR FULL LOAD AMPS	7.0	7.0	7.0	12.0
RPM (Nominal) — SPEEDS	Variable 300 — 1300			
BLOWER WHEEL DIAMETER × WIDTH (In.)	11 x 10	10 x 7	11 x 10	11 x 10
FILTER SIZE (In.) NOMINAL — (Washable)	(1) 16 x 25 x 1	(1) 16 x 25 x 1	(1) 20 x 25 x 1	(2) 20 x 25 x 1

ICM — Integrated Control and Motor

EFFICIENCY

UNIT SIZE	040	060	080	100
CAPACITY BTUH (Low/High)* Nonweatherized ICS	25,000/38,600	37,100/54,500	49,400/76,000	61,800/95,000
AFUE%* Nonweatherized ICS	96.6	94.0	94.0	94.0

*Ratings in accordance with U.S. Government DOE test procedures.

ICS — Isolated Combustion System

AIR DELIVERY — CFM (With Filter)*

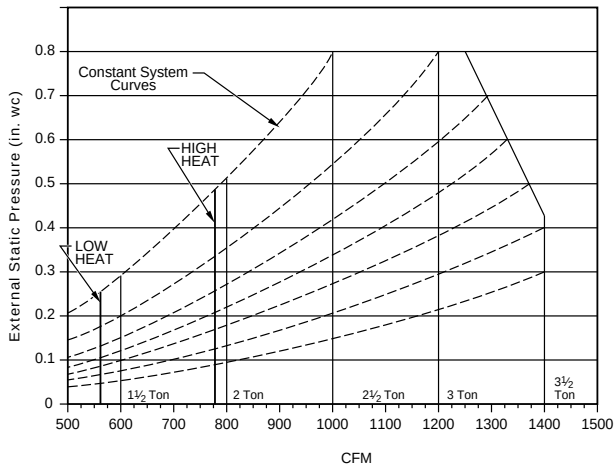
AIRFLOW CFM	OPERATIONAL EXTERNAL STATIC PRESSURE RANGE*
040-14	
Low Heat 565 (650‡)	0 — 0.26
High Heat 780	0 — 0.49
1-1/2-Ton A/C Setting 600	0 — 0.29†
2-Ton A/C Setting 800	0 — 0.51†
2-1/2-Ton A/C Setting 1000	0 — 0.80†
3-Ton A/C Setting 1200	0 — 0.80†
3-1/2-Ton A/C Setting 1400	0 — 0.43
060-14	
Low Heat 515 (590‡)	0 — 0.27
High Heat 925	0 — 0.68
1-1/2-Ton A/C Setting 600	0 — 0.29†
2-Ton A/C Setting 800	0 — 0.51†
2-1/2-Ton A/C Setting 1000	0 — 0.80
3-Ton A/C Setting 1200	0 — 0.80
3-1/2-Ton A/C Setting 1400	0 — 0.50
080-14	
Low Heat 690 (795‡)	0 — 0.26
High Heat 1235	0 — 0.80
1-1/2-Ton A/C Setting 600	0 — 0.20†
2-Ton A/C Setting 800	0 — 0.36†
2-1/2-Ton A/C Setting 1000	0 — 0.56†
3-Ton A/C Setting 1200	0 — 0.80†
3-1/2-Ton A/C Setting 1400	0 — 0.50
100-20	
Low Heat 860 (990‡)	0 — 0.34
High Heat 1320	0 — 0.80
2-Ton A/C Setting 800	0 — 0.29†
2-1/2-Ton A/C Setting 1000	0 — 0.46†
3-Ton A/C Setting 1200	0 — 0.66†
3-1/2-Ton A/C Setting 1400	0 — 0.80
4-Ton A/C Setting 1600	0 — 0.80
5-Ton A/C Setting 2000	0 — 0.50

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² proportional to ESP); such as, a system with 925 CFM at 0.5 ESP would operate at cooling airflow of 800 CFM at 0.37 ESP and low-heating airflow of 515 CFM at 0.15 ESP. (See fan curves.)

† Ductwork must be sized for high-heating CFM within the operational range of ESP.

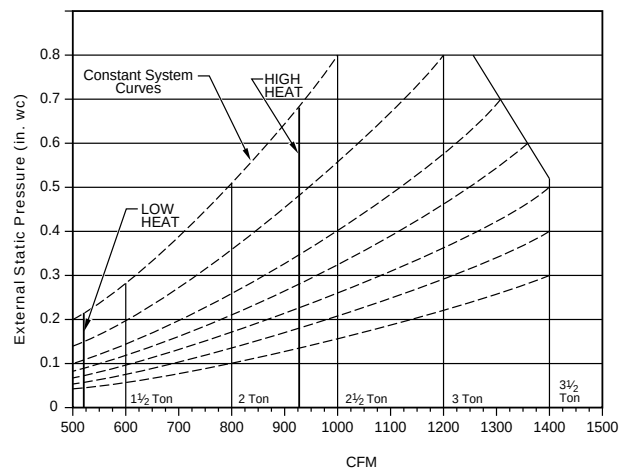
‡ Low heat CFM when bypass humidifier switch (SW3) on control center is used.

AIR DELIVERY CURVE — 040-14



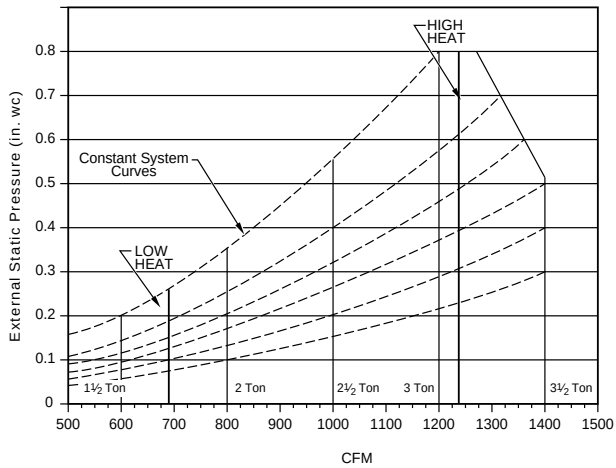
A93074

AIR DELIVERY CURVE — 060-14



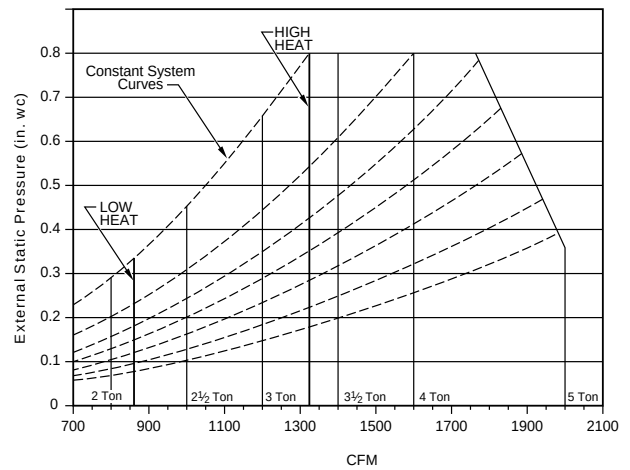
A93075

AIR DELIVERY CURVE — 080-14



A93076

AIR DELIVERY CURVE — 100-20



A93077

MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.



COMBUSTION-Air and vent piping

MAXIMUM ALLOWABLE PIPE LENGTH (FT)

ALTITUDE ABOVE SEA LEVEL (FT)	UNIT SIZE	TERMINATION TYPE	PIPE DIA (IN.)*	NUMBER OF 90° ELBOWS					
				1	2	3	4	5	6
0 to 2000	040-14	2 Pipe or 2-In. Concentric	1-1/2	50	45	40	35	30	25
			2	70	70	70	70	70	70
	060-14	2 Pipe or 2-In. Concentric	1-1/2	50	45	40	35	30	25
			2	70	70	70	70	70	70
	080-14	2 Pipe or 2-In. Concentric	1-1/2	30	25	20	15	10	5
			2	70	70	70	70	70	70
2001 to 3000	040-14	2 Pipe or 2-In. Concentric	2	45	40	35	30	25	20
			2-1/2	70	70	70	70	70	70
	060-14	2 Pipe or 2-In. Concentric	2	45	40	35	30	25	20
			2-1/2	70	70	70	70	70	70
	080-14	2 Pipe or 2-In. Concentric	2	26	21	16	11	6	NA
			2-1/2	70	70	70	70	70	70
3001 to 4000	040-14	2 Pipe or 2-In. Concentric	2	40	35	30	25	20	15
			2-1/2	70	70	70	70	70	70
	060-14	2 Pipe or 2-In. Concentric	2	42	37	32	27	22	17
			2-1/2	70	70	70	70	70	70
	080-14	2 Pipe or 2-In. Concentric	2	25	20	15	10	5	NA
			2-1/2	70	70	70	70	70	70
4001 to 5000†	040-14	2 Pipe or 2-In. Concentric	2	38	33	28	23	18	13
			2-1/2	70	70	70	70	70	70
	060-14	2 Pipe or 2-In. Concentric	2	40	35	30	25	20	15
			2-1/2	70	70	70	70	70	70
	080-14	2 Pipe or 2-In. Concentric	2	23	18	13	8	NA	NA
			2-1/2	70	70	70	70	70	70
5001 to 6000†	040-14	2 Pipe or 2-In. Concentric	2	36	31	26	21	16	11
			2-1/2	70	70	70	70	70	70
	060-14	2 Pipe or 2-In. Concentric	2	37	32	27	22	17	12
			2-1/2	70	70	70	70	70	70
	080-14	2 Pipe or 2-In. Concentric	2	22	17	12	7	NA	NA
			2-1/2	70	70	70	70	70	70
6001 to 7000†	040-14	2 Pipe or 2-In. Concentric	2	33	28	23	18	13	8
			2-1/2	70	70	70	70	70	70
	060-14	2 Pipe or 2-In. Concentric	2	35	30	25	20	15	10
			2-1/2	70	70	68	67	66	64
	080-14	2 Pipe or 2-In. Concentric	2	20	15	10	5	NA	NA
			2-1/2	70	70	68	67	62	57
	100-20	2 Pipe or 2-In. Concentric	2	31	26	21	16	11	6
			2-1/2	70	70	68	67	66	64

See notes on pg. 10.

ALTITUDE ABOVE SEA LEVEL (FT)	UNIT SIZE	TERMINATION TYPE	PIPE DIA (IN.)*	NUMBER OF 90° ELBOWS					
				1	2	3	4	5	6
7001 to 8000†	040-14	2 Pipe or 2-In. Concentric	1-1/2	32	27	22	17	12	7
			2	66	65	63	62	60	59
	060-14	2 Pipe or 2-In. Concentric	1-1/2	32	27	22	17	12	7
			2	66	65	63	62	60	59
	080-14	2 Pipe or 2-In. Concentric	1-1/2	18	13	8	NA	NA	NA
			2	66	65	63	62	57	52
8001 to 9000†	040-14	2 Pipe or 2-In. Concentric	1-1/2	30	25	20	15	10	5
			2	62	60	58	56	55	53
	060-14	2 Pipe or 2-In. Concentric	1-1/2	30	25	20	15	10	5
			2	62	60	58	56	55	53
	080-14	2 Pipe or 2-In. Concentric	1-1/2	17	12	7	NA	NA	NA
			2	62	60	58	56	51	46
9001 to 10,000†	040-14	2 Pipe or 2-In. Concentric	1-1/2	27	22	17	12	7	NA
			2	57	55	53	51	49	47
	060-14	2 Pipe or 2-In. Concentric	1-1/2	27	22	17	12	7	NA
			2	57	55	53	51	49	47
	080-14	2 Pipe or 2-In. Concentric	1-1/2	15	10	5	NA	NA	NA
			2	57	55	53	51	46	41
9001 to 10,000†	100-20	2 Pipe or 2-In. Concentric	2	24	19	14	9	NA	NA
			2-1/2	57	55	53	51	49	47

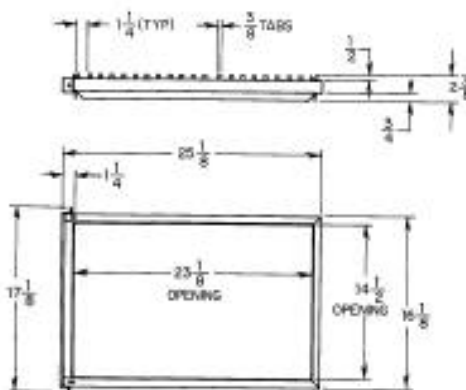
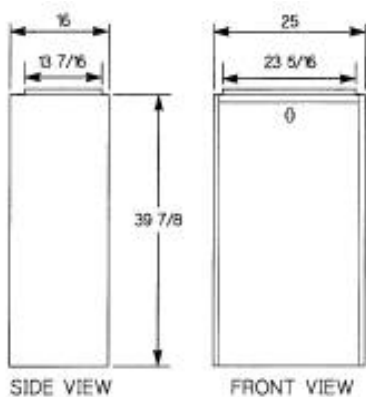
* Disk usage — Unless otherwise stated, use perforated disk assembly (factory supplied in loose parts bag).

† Vent sizing for Canadian installations above 4500 ft (1370m) above sea level are subject to acceptance by the local authorities having jurisdiction.
NA — Not Allowed; pressure switch will not make.

NOTES:

1. Do not use pipe size greater than those specified in table or incomplete combustion, flame disturbance, or flame sense lockout may occur.
2. Size both the combustion-air and vent pipe independently, then use the larger diameter for both pipes.
3. Assume two 45° elbows equal one 90° elbow. Long radius elbows are desirable and may be required in some cases.
4. Elbows and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
5. The minimum pipe length is 5 ft for all applications.

RETURN-AIR PLENUM AND SIDE FILTER RACK



A93078

A80199

WITH INSULATION IN WINTER DESIGN TEMPERATURE AMBIENT*

UNIT SIZE	WINTER DESIGN TEMP °F	MAX PIPE DIA (IN.)	INSULATION THICKNESS (IN.)†				
			0	3/8	1/2	3/4	1
040	20	2	21	37	42	50	57
	0	2	10	22	25	30	35
	-20	2	5	14	17	21	25
060	20	2	30	55	61	70	70
	0	2	16	33	38	46	53
	-20	2	9	23	26	33	38
080	20	2	37	65	70	70	70
	0	2	20	39	45	55	63
	-20	2	11	27	31	39	45
100	20	2-1/2	41	70	70	70	70
	0	2-1/2	21	42	48	59	68
	-20	2-1/2	11	28	33	41	49

* Pipe length (ft) specified for maximum vent pipe lengths located in unconditioned spaces. Vent pipes located in unconditioned space cannot exceed the total allowable pipe length as specified in the maximum allowable pipe length table.

† Insulation thickness based on R value of 3.5 per in.

Clearance to combustibles

This unit complies with CAN/CGA 2.3 M86, CAN/CSA C22.2 No. 0-M91, CSA C22.2 No.3-1988 standards.

This appliance is equipped only for altitudes 0 - 2,000 ft (0-610 m) for use with natural gas and propane. A conversion kit, supplied by the manufacturer, shall be used to convert to the alternate fuel or elevation.

This direct-vent, forced-air furnace is for indoor installation in a building constructed on site. For installation in alcove or closet at minimum clearances from combustible material as shown below, minimum front clearance for service is 30 inches (762 mm).

This furnace is for use with schedule-40 PVC, PVC-DWV, or ABS-DWV pipe, and must not be vented in common with other gas-fired appliances. Construction through which vent/air intake pipes may be installed is maximum 24 inches (600 mm), minimum 3/4 inches (19 mm) thickness (including roofing materials).

Special venting system required. In Canada use certified venting system specified by furnace manufacturer. See Installation Instructions provided with furnace. Flue gas temperature 131°F (55°C) vent pressure positive.

MINIMUM CLEARANCE TO COMBUSTIBLE MATERIAL

INCHES	TOP	BOTTOM	SIDES	BACK	FRONT	VENT	
	1	0	0	0	3	0	UPFLOW
	1	++	0	0	3	0	DOWNFLOW
	1	0+	1*	0	3	0	HORIZONTAL

++ For installation on combustible floors only when installed on special base No. KGASB0201ALL.

* Clearance shown is for air inlet and air outlet end.

Horizontal position: Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs, or framing.

+ 120,000 BTU Input Furnaces require 1 inch bottom clearance to combustible materials.

Electrical Data

UNIT SIZE	040	060	080	100
UNIT VOLTS — HERTZ — PHASE	115 — 60 — 1			
OPERATING VOLTAGE RANGE (Min — Max)†	104 — 127			
MAXIMUM UNIT AMPS	9.0	9.0	9.0	13.9
UNIT AMPACITY**	12.0	12.0	12.0	18.1
MINIMUM WIRE SIZE	14	14	14	12
MAXIMUM WIRE LENGTH (Ft)*	30	30	30	32
MAXIMUM FUSE SIZE OR CKT BKR (Amps)‡	15	15	15	20
TRANSFORMER (24v)	40VA			
EXTERNAL CONTROL POWER AVAILABLE Heating	25VA			
Cooling	34VA			
AIR CONDITIONING BLOWER RELAY	Standard			

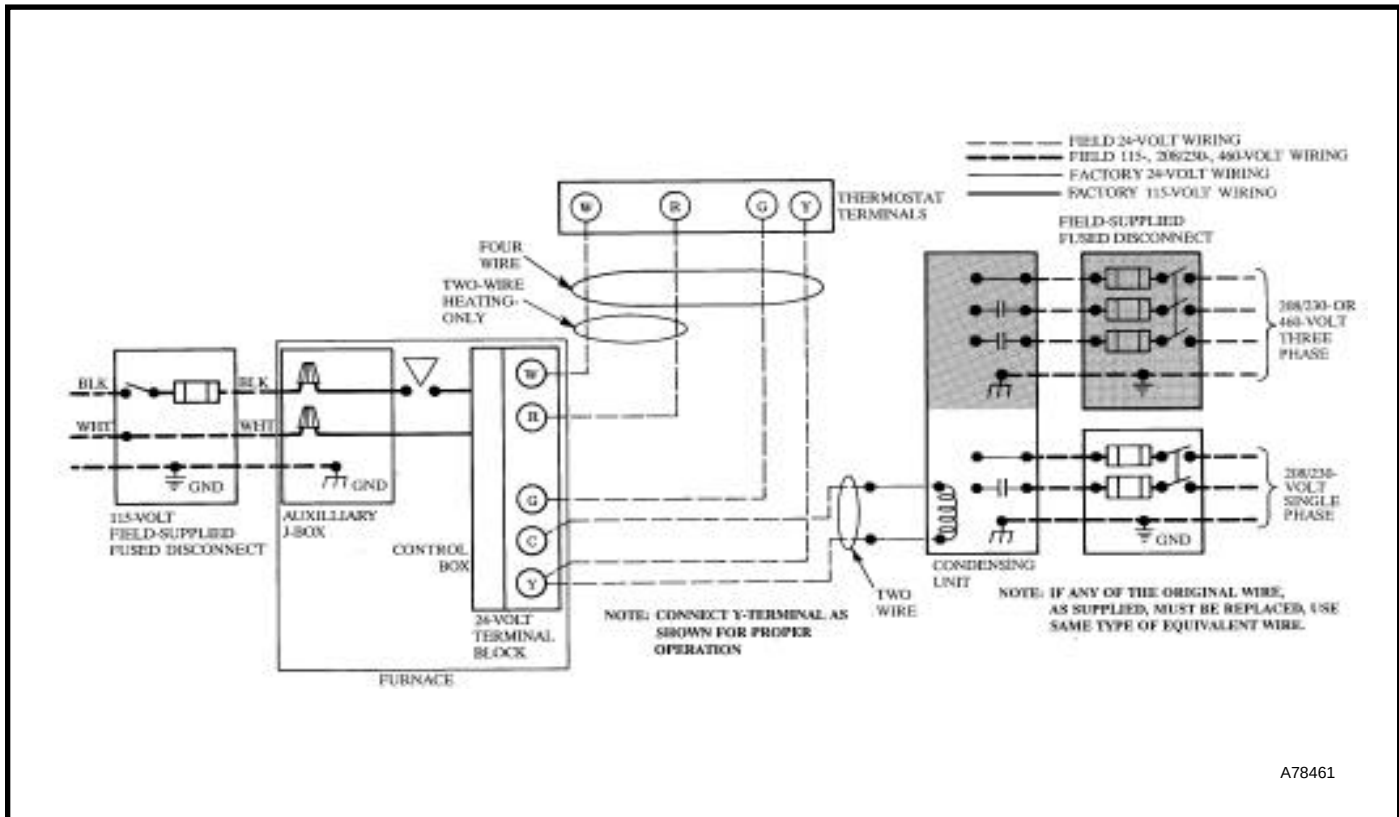
* Length shown is as measured 1 way along wire path between unit and service panel for maximum 2% voltage drop.

† Permissible limits of the voltage range at which the unit will operate satisfactorily.

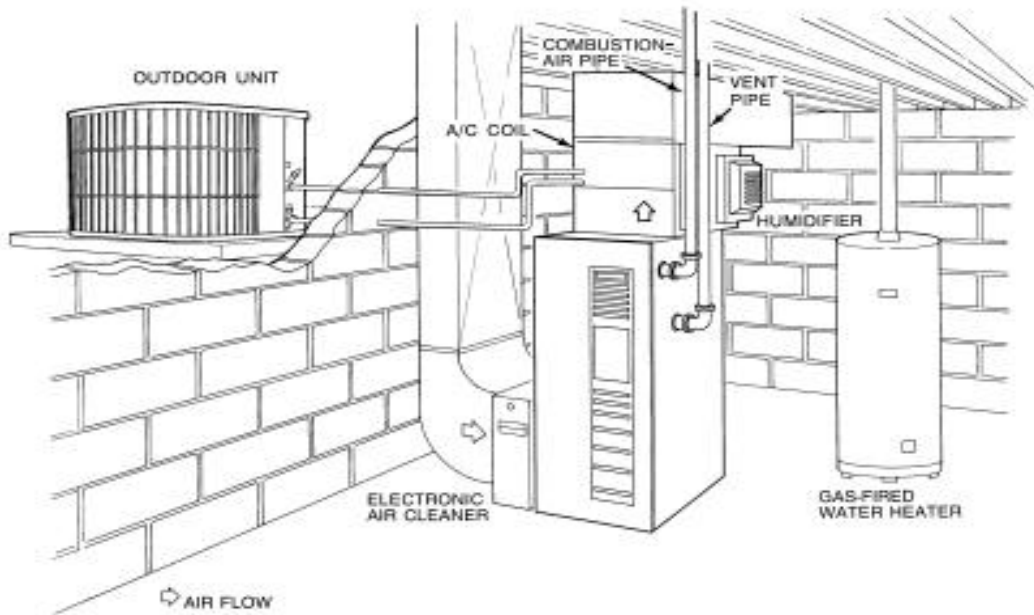
‡ Time-delay fuse is recommended.

**Unit ampacity = 125% of largest operating component's full load amps plus 100% of all other potential operating component's (EAC, humidifier, etc.) full load amps.

Typical wiring schematic

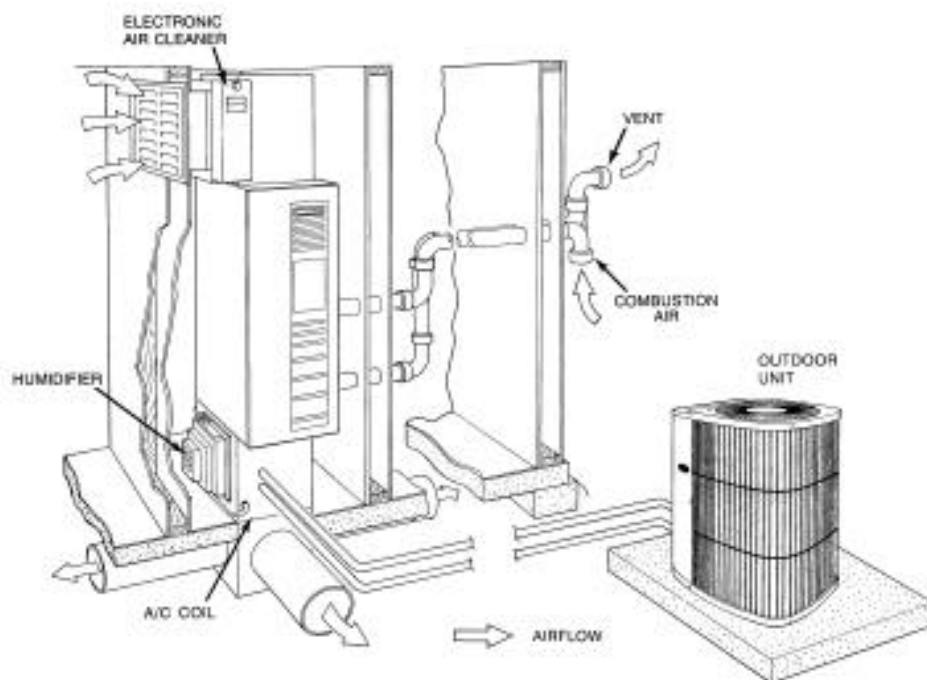


Typical Installations



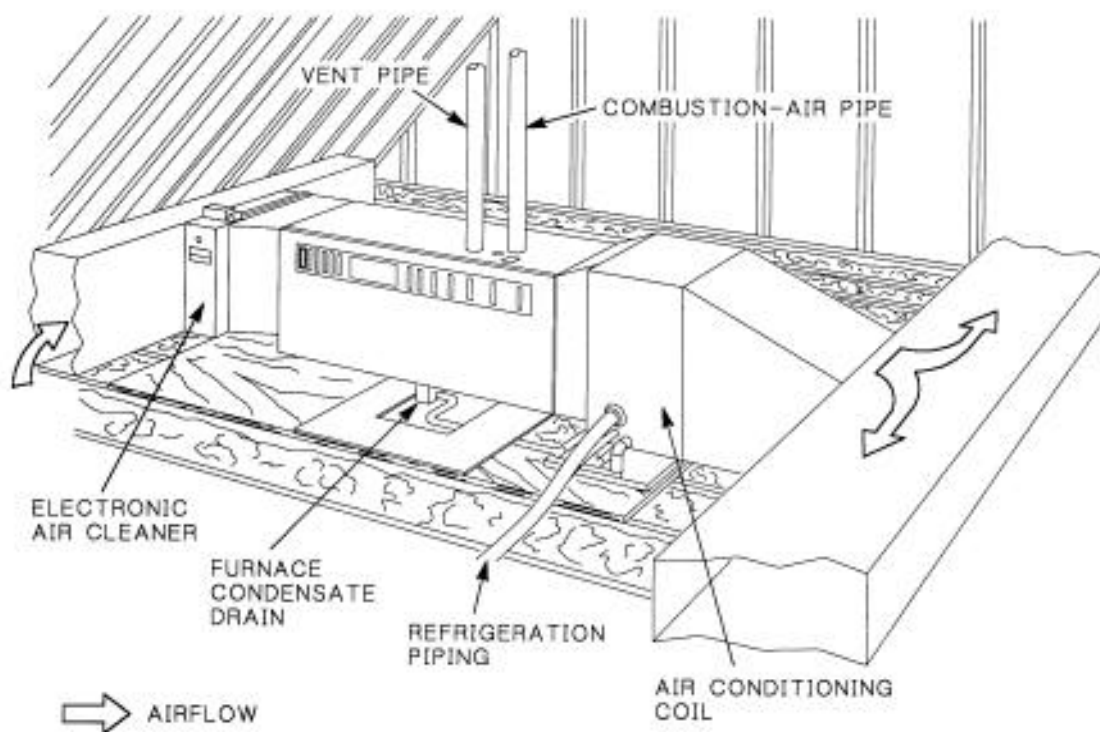
Basement — Upflow Application

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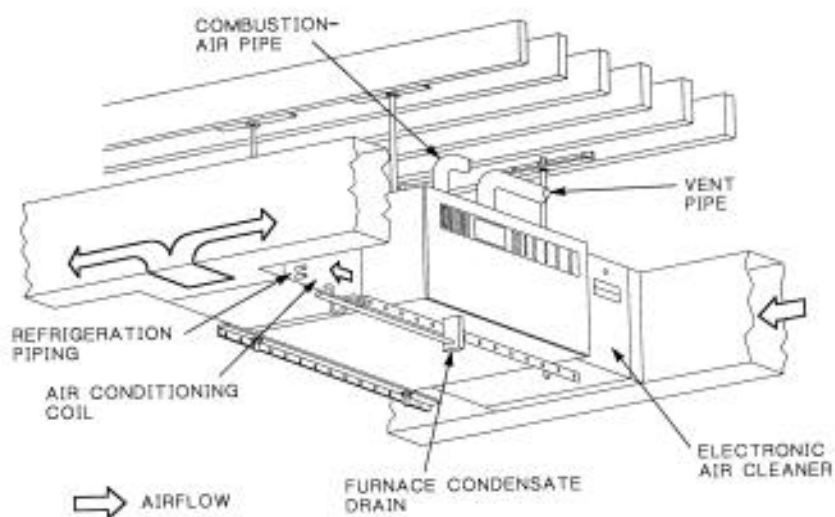
Basement — Upflow Application

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Attic — Horizontal Application

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Crawlspace — Horizontal Application

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