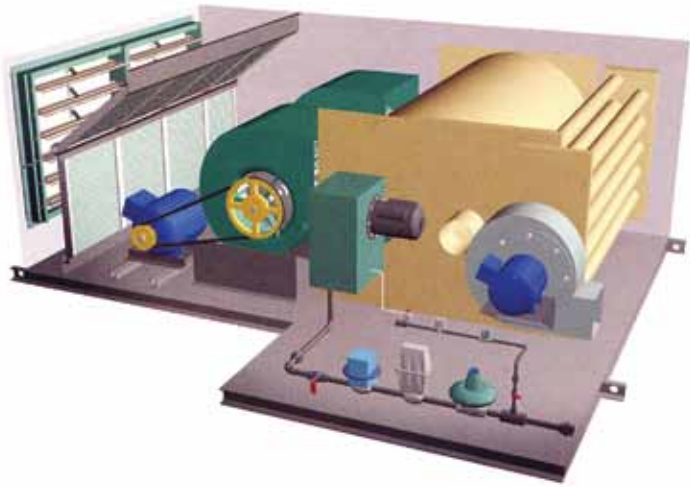


REZNOR®

Model PCD

Indirect-Fired, Vertical/Horizontal,
Indoor/Outdoor, Packaged,
Makeup Air Heating and Air
Conditioning System



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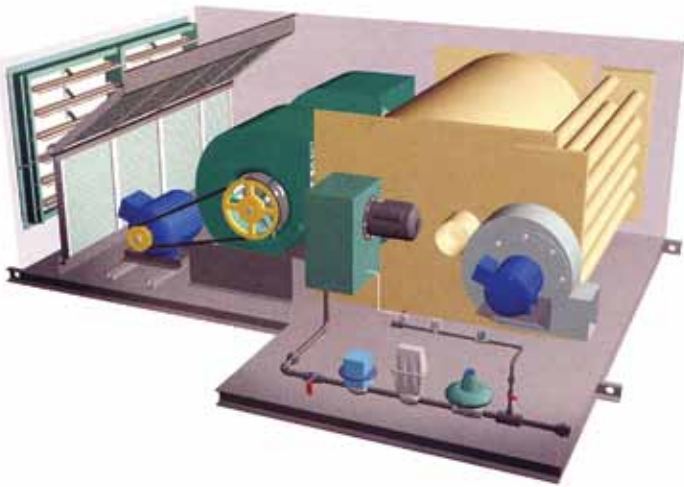
IMPORTANT: Specifications are subject to change without notice. This guide is intended to provide specifications and technical information only.

This guide is not intended to be an instruction manual. When installing HVAC Equipment, you must check and conform to all local and national building codes. Improper installation of HVAC Equipment could be dangerous. Consult manufacturer's installation manual for instructions and important warnings.

In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

MODELS PCD, HPCD

Horizontal or Vertical, Indoor or Outdoor, Indirect Fired Power Burner, Makeup Air Heating, Ventilating and Air Conditioning System.



DESCRIPTION

The Reznor Model PCD Series units are indirect-fired/makeup air system designed for either indoor or outdoor installation. Units can be configured for either vertical, horizontal for floor mount, outdoor pad mount, rooftop or suspended installation. Select from top, bottom or horizontal discharge supply air options. Model PCD systems are available to operate on either natural gas, propane or fuel oil. This catalog details features and specifications for heating capacities ranging from 200 to 6,000 MBH output. Larger sizes are available on special order basis (contact your Reznor Representative for more more information) High cfm versions (Model HPCD) are also available.

The basic cabinet is constructed of 18 gauge galvaneal with a grey enamel finish. Other finishes are available. The standard cabinet is a single wall with 1" thick, 1.5 lb. neoprene coated insulation. High density (2 lb.) insulation or 2" thick insulation can be selected. A 22 gauge interior liner is standard on the burner section. Optional solid (for cleaning) or perforated (for sound attenuation) liners are available on other sections.

Vertical units (Model PCDV) can be shipped with a 3' or 5' mounting stand for field attachment. The mounting stand can be screened, or it can be insulated with one or two flanged inlets with or without dampers. A louvered inlet plenum can be shipped separately with outdoor vertical or horizontal units.

Discharge air openings can be shipped with two position motorized discharge dampers - low leak dampers also available. Other air distribution options include trapezoidal cowls with horizontal louvers; 4-sided (360 degrees) louvered discharge plenum; or 90 degree discharge cowls.

A 409 stainless steel primary and secondary heat exchanger is standard on Model PCD. Optional 304 stainless steel can be substituted for both heat exchangers or only the primary heat exchanger. Model PCD high can be ordered with a standard gravity vent or induced draft vent.

Units can be arranged for 100% outside or return air, or a mixing box can be specified with 3-position motorized dampers. Other modules can be included with Model PCD and shipped separately for field attachment including an inlet louvered hood, evaporative cooling section, filter cabinet, service platform and/or cooling coil cabinet.

Model PCD and HPCD meet ETL (ANSI) Standards for installation in the United States and CGA (CSA) Standards for installation in Canada.

All units are factory wired, piped and test fired.

STANDARD FEATURES

- Single wall cabinet (with interior 22 gauge liner on burner section)
- Gray enamel finish on 18 gauge Galvaneal cabinet construction
- 1" thick 1.5 lb. neoprene coated fiberglass insulation
- Natural gas operation
- 409 stainless steel primary and secondary heat exchangers
- Gravity vent exhaust
- 230/1/60 supply voltage
- Burner manifold meets ETL (ANSI) or CGA (CSA) standards
- 3:1 turndown ratio modulating power burner

MODELS PCD, HPCD (cont'd)

OPTIONAL FEATURES - Factory Installed

- 22 gauge solid or perforated interior cabinet metal liner on blower, filter, mixing box, or inlet plenum sections.
- Special material cabinet coating
- 1" thick high density (2 lb.) or 2" thick cabinet insulation
- Propane or fuel oil operation
- Power vent exhaust
- 304 stainless steel primary and secondary heat exchangers (or 304 primary with a 409 secondary stainless steel heat exchanger)
- 208/3/60, 230/3/60, 460/3/60, or 575/3/60 supply voltages
- Vibration isolation
 - 1" deflection motor/blower spring vibration isolation
 - 2" deflection motor/blower spring vibration isolation
 - Motor/blower rubber-in-shear isolation
 - 1" external spring isolation under unit channel base
 - 2" external spring isolation under unit channel base
 - Seismic isolation, pad type
 - External spring hangers - 1" deflection
 - External spring hangers - 2" deflection
 - Seismic isolation, hanger type
- Left or right hand controls
- Extended lube lines
- Vertical or horizontal unit configuration
- Top, bottom or horizontal supply discharge air
- Two position motorized discharge air shutoff damper, spring return (also available with low leak airfoil type dampers)
- Outdoor units
 - Weather-housing covers the control section on outdoor units
 - Roof slopes away from weather-housing on Model PCDH 125 and larger
- Manifold meets IRI and/or FM requirements
- Up to 15:1 turndown ratio modulating burner
- UV flame supervision
- Unit mounted discharge temperature sensor
- Premium efficiency ODP motors or TEFC motors
- Variable frequency drive
- Convenience outlet
- Rain-tight safety disconnect switch

OPTIONAL FEATURES - Field Installed

- Service Platform
- Discharge air attachments
 - Trapezoidal, 3 facet cowl with horizontal louvers (also available with double deflection louvers)
 - 4-sided (360 deg.) louvered discharge plenum
 - 90 deg. or 45 deg. louvered nozzles
- 3' or 5' stand for vertical indoor units
 - Screened mounting stand
 - Insulated stand with one or two flanged inlet air openings
 - Insulated stand with one or two inlet openings with dampers
- Filter section (with 2" permanent or pleated filters)
 - Flat filter rack
 - V-bank filter rack
- Mixing box with 3-position motorized dampers.
- Louvered inlet plenum (for outdoor units)
- DX or chilled water coil for downstream installation
- Evaporative cooling module
 - Available with stainless steel cabinet
 - 12" thick Glasdek® or Celdek® media
 - 1" or 2" aluminum mesh, washable filters
 - Louvered inlet or screened inlet hood
 - Fill and drain options
- Steam or hot water coil cabinet
- Gas pressure safety switch
- Adjustable freezestat
- Post and/or pre-purge timer
- 16" or 26" roof curb
- Remote Console

Control Side and Air Arrangement Data

As previously mentioned, Model PCD can be arranged for horizontal air flow or vertical (up) airflow configuration. There are a variety of air discharge arrangements for each configuration (top, bottom or horizontal air flow). Units can also be configured for left-hand or right-hand controls.

There are a variety of discharge air louvers, cowls and nozzles for supply air openings.

The following table will show you each available configuration and arrangement and the option codes representing each.

Control Side

Option AJ1 Left side controls (when facing air stream)

Option AJ2 Right side controls (when facing air stream)

Discharge Air Arrangement

Option AQ1 Bottom Discharge (Model PCDH)

Option AQ2 Horizontal Discharge (Model PCDH)

Option AQ13 Top Discharge (Model PCDV without Mounting Base), "L" Configuration

Option AQ32 Horizontal Discharge (Model PCDV without Mounting Base), "L" Configuration

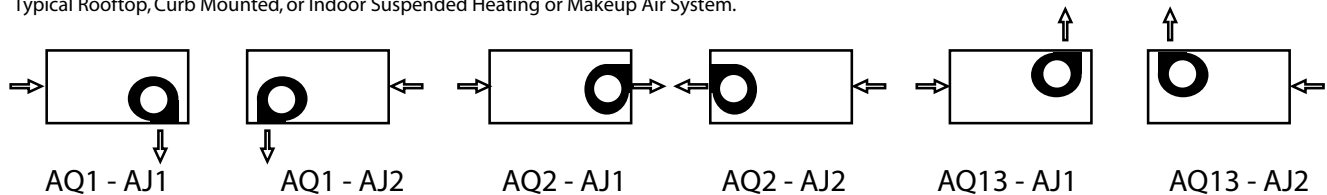
Option AQ33 Horizontal Discharge (Model PCDV with Mounting Base), "I" Configuration

AQ34 Top Discharge (Model PCDV with Mounting Base), "I" Configuration

Note: No difference between left-hand and right-hand controls for units with Option AQ34. Unit can be set in place with controls on proper side.

(H)PCDH Configurations

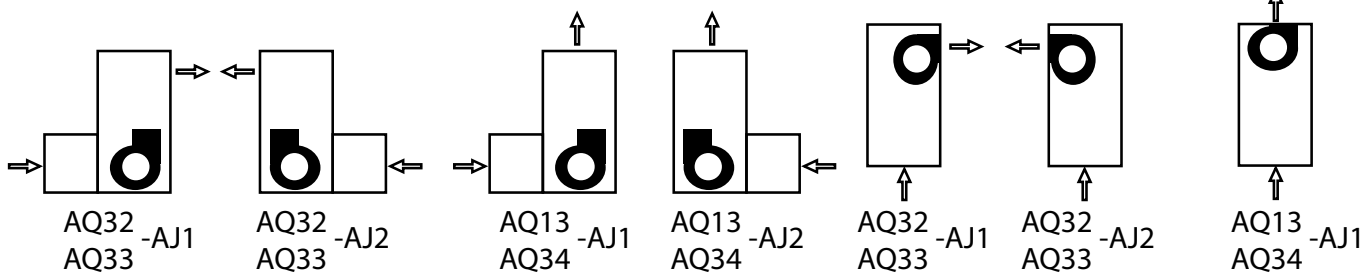
Typical Rooftop, Curb Mounted, or Indoor Suspended Heating or Makeup Air System.



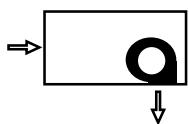
(H)PCDV Configurations

(H)PCDV Uflow "L" Configuration - Typical Indoor, Thru-Wall, or Outdoor Slab Mount Upflow Heating or Makeup Air System

(H)PCDV Uflow "I" Configuration* - Typical Indoor or Outdoor Air Turnover High Bay Heating/Cooling Makeup Air System



Example Configuration Nomenclature



Air flow directions and control side illustrations as seen when facing the unit from the control side

PCDH (Horizontal Configuration)

AQ1 Option - bottom discharge

AJ1 Option - Left side controls when facing air flow.

* If (H)PCDV is ordered with an AVA option, the AW6 or AW15 V-bank filter section will stack on top of the AVA base in an "I" configuration. Otherwise, the V-bank filter section will be in the "L" configuration shown. For draw through coil cabinets in the "L" configuration, order option AU5 or AU6. For blow through upflow A-Coil cabinets in the "I" configuration, order option AU2A or AU3A.

How to Specify a configuration

Model	Description
PCDH	Horizontal Indirect Fired Unit
HPCDH	High CFM Horizontal Indirect Fired Unit
PCDV	Vertical Indirect Fired Unit
HPCDV	High CFM Vertical Indirect Fired Unit

Size	MBH Input	MBH Output
20	250	200
25	312.5	250
35	437.5	350
40	500	400
45	562.5	450
55	687.5	550
65	812.5	650
75	937.5	750
85	1,062.5	850
100	1,250	1,000
125	1,562.5	1,250
150	1,875	1,500
175	2,187.5	1,750
200	2,500	2,000
250	3,125	2,500
275	3,437.5	2,750
300	3,750	3,000
325	4,062.5	3,250
350	4,375	3,500
400	5,000	4,000
500	6,250	5,000
600	7,500	6,000

SIZE SELECTION

How to determine the size of Model PCD

Model PCD are designated by their MBH output. Thus a PCD75 has 750 MBH output, or 750,000 BTUH.

- All PCD units are 80% efficient at high fire, thus, output is BTUH input x 0.80
- Once you have chosen your required BTUH output, you can use BTUH output ÷ 0.80 to find your required input, or actual gas consumption. Using the desired output you can select your model.
- Choose your airflow (this may be your first step if the unit is applied in a make-up air situation)
- Calculate your TSP (add your ESP with your accessories – accessory pressure drops can be found after the unit ESP table). With your airflow and TSP selected you can find your BHP from the performance table.
- Given the entering and leaving air dry bulb temperatures or temperature rise, the equation below can be used to calculate the required MBH capacity
 - MBH Capacity = $(CFM \times C \times (LAT - EAT)) \div 0.80 \div 1000$
 - MBH capacity: BTUH/1000 (British Thermal Units per hour)
 - CFM: Cubic Feet per Minute of air
 - C: Gas constant of 1.08 based on air density at 75°F
 - EAT: Entering air dry bulb temperature (°F)
 - LAT: Leaving air dry bulb temperature (°F)
 - 0.8: (80%) Series Efficiency

Example 1: Make-Up Air

A manufacturing facility needs pressurization via makeup air. A pressurization of 10% is deemed to be appropriate, and it is determined that 25,720 CFM exhaust is required. The design ambient is -20°F, and desired discharge temperature is 70°F. Units will be roof mounted, down discharge, and will have an ESP of 0.60" w.c. Select the appropriate size, and find the BHP for the unit.

Selection:

- Since we are exhausting 25,720 CFM, and desire 10% pressurization, we can calculate that we need 28,300 CFM of supply air $(25,720 \times 110\% = 28,300)$
- We know our EAT = -20°F, and LAT = 70°F, thus we can calculate:
 - MBH Output Capacity = $(CFM \times C \times (LAT - EAT)) \div 1000$
 - MBH Output Capacity = $(28,300 \times 1.08 \times (70 - (-20))) \div 1000$
 - MBH Output Capacity = 2,750.76
- The closest size available is the Model PCDH275 which has 2,750 MBH output, and 3,437.5 MBH input

We can now calculate our TSP:

- We are selecting the basic options – inlet filters and damper
- Inlet damper = 0.1" w.c.
- Inlet Filters = 0.3" w.c.
 - TSP = ESP + Accessories
 - TSP = 0.60 + 0.1 + 0.3
 - TSP = 1.0" W.C.
- Consulting the chart for the PCD275 at 28,300 CFM and 1.0" W.C we find our BHP = 16.28 BHP – Thus we need a 20.0 HP motor minimum.

How to Specify a configuration

Example 2: Heat-Vent Unit

Selection:

A small warehouse needs a minimum of 20% fresh air in unoccupied (night time) mode and 100% fresh air in occupied mode (during the day with forklift in the building). It has been calculated that at -30°F the room loses 1,000,000 BTUH. It has been determined that 11,000 CFM is required for the application. The outdoor air is -30°F, and desired leaving air is 75°F. Return air will be 70°F. ESP is calculated to be 0.5" w.c. Select the appropriate model and find the BHP for the unit.

Part 1 (Unoccupied mode)

- We only bring in 20% outside air in this mode, thus 2,200 CFM is outside air and 8,800 CFM is return air
- We know our EAT for outside air = -30°F, and LAT = 75°F, thus we can calculate:
 - MBH Capacity = $(\text{CFM} \times C \times (\text{LAT} - \text{EAT})) \div 1000$
 - MBH Capacity = $(2,200 \times 1.08 \times (75 - (-30))) \div 1000$
 - MBH Capacity = 249.48
- We also know that the room is losing 1,000 MBH, thus we need to add that to the calculation. Thus the total Heat input capacity required = 1,250 MBH
- Before we select our model we must check the occupied mode to ensure we have sufficient heat capacity.

Part 2 (Occupied mode)

- We will be delivering 11,000 CFM of outside in this mode
- We know our EAT for outside air = -30°F, and LAT = 75°F, thus we can calculate:
 - MBH Capacity = $(\text{CFM} \times C \times (\text{LAT} - \text{EAT})) \div 0.80 \div 1000$
 - MBH Capacity = $(11,000 \times 1.08 \times (75 - (-30))) \div 0.80 \div 1000$
 - MBH Capacity = 1,247.40
- Thus to satisfy both options we need to use a PCDH125.

Note: In this example we are assuming there is an alternate source of heat that will be used during occupied mode to make-up for the heat loss of the warehouse, which will not be used in unoccupied mode.

We can now calculate our TSP:

- We are selecting the basic options – inlet filters and damper
- Inlet damper = 0.1" w.c.
- Inlet Filters = 0.3" w.c.
 - TSP = ESP + Accessories
 - TSP = 0.50 + 0.1 + 0.3
 - TSP = 0.9" W.C. (Round up to 1.0" w.c.)
- Consulting the chart for the PCDH125 at 11,000 CFM (use 11,574 CFM) and 1.0" w.c., we find our BHP = 5.75 BHP – We can use a 7.5 hp motor.

Example 3: Heating Only Unit

A door heater for a large overhead door can potentially see 100% fresh air during times when the overhead doors open frequently. Thus a durable Model PCD unit should be selected for this application. The appropriate amount of air is determined to be 18,000 CFM at 0.5" w.c. for the vestibule, and 1,250 MBH is calculated to be the appropriate amount of heat capacity required. Select the appropriate model and find the BHP for the unit.

Selection:

- Since the heating load calculation has already been completed we simply need to use the heating capacity and match it up with the appropriate Model PCD
- PCD125 is the appropriate model for 1,250 MBH

We can now calculate our TSP:

- We are selecting the basic options – inlet filters and damper
- Inlet damper = 0.1" w.c.
- Inlet Filters 0.3" w.c.
 - TSP = ESP + Accessories
 - TSP = 0.50 + 0.1 + 0.3
 - TSP = 0.9" w.c. (Round up to 1.0" W.C)
- Consulting the chart for the PCD125 at 18,000 CFM (this value falls between 16,534 CFM and 19,290 CFM) and 1.0" W.C we find our BHP is between 9.59 BHP and 13.12 BHP. A 15 HP motor should be used.

Pressure Drop Table

Blower size will be determined by factory based on specified CFM and temperature rise requirements.

Note: The normal temperature rise for Model Series PCD is 71°-110°F; for Model Series HPCD it is 40°-70°F.

PCD20 - 250 MBH INPUT/200 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
4630	40	1.70	1.94	2.17	2.42	2.94	4.28	1
3704	50	1.47	1.67	1.87	2.08	2.49	2.90	
3086	60	1.28	1.44	1.63	1.82	2.17	2.58	
2646	70	0.90	1.06	1.22	1.37	1.73	2.13	
2315	80	0.69	0.83	0.96	1.12	1.64	1.99	
2058	90	0.55	0.67	0.82	0.97	1.39	1.72	
1852	100	0.45	0.57	0.71	0.93	1.52	1.52	
1684	110	0.39	0.51	0.7	0.87	1.05	1.24	

PCD25 - 312.5 MBH INPUT/250 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
5787	40	2.91	3.19	3.48	3.77	4.37	4.99	1
4630	50	1.70	1.94	2.17	2.42	2.94	4.28	
3858	60	1.62	1.82	2.02	2.24	2.67	3.09	
3307	70	1.53	1.66	1.87	2.08	2.46	2.83	
2894	80	1.09	1.27	1.44	1.61	1.95	2.37	
2572	90	0.85	1.01	1.16	1.3	1.67	2.27	
2315	100	0.69	0.83	0.96	1.12	1.64	1.99	
2104	110	0.58	0.69	0.84	0.99	1.43	1.79	

PCD35 - 437.5 MBH INPUT/350 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
8102	40	4.49	4.93	5.37	5.82	6.73	7.66	1
6481	50	2.63	3.53	3.83	4.14	4.78	5.43	
5401	60	2.06	2.32	2.58	2.85	3.40	3.97	
4630	70	1.45	1.68	1.91	3.08	3.54	4.02	
4051	80	1.09	2.00	2.19	2.40	2.81	3.24	
3601	90	0.87	1.59	1.77	1.96	2.34	2.73	
3241	100	1.16	1.32	1.72	1.89	2.22	2.55	
2946	110	0.99	1.32	1.47	1.62	1.92	2.22	

PCD40 - 500 MBH INPUT/400 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
9259	40	7.13	6.62	10.33	10.77	11.78	12.82	1
7407	50	3.59	4.00	5.22	5.56	6.27	7.00	
6173	60	2.35	3.14	3.43	3.73	4.34	4.97	
5291	70	1.96	2.21	2.47	2.73	3.28	3.84	
4630	80	1.45	1.68	1.91	2.15	2.64	3.99	
4115	90	1.12	1.33	1.54	1.76	2.80	3.26	
3704	100	1.36	1.53	1.72	1.93	2.34	2.74	
3367	110	1.08	1.26	1.44	1.63	1.99	2.81	

PCD45 - 562.5 MBH INPUT/450 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
10417	40	5.17	5.69	6.23	6.78	7.94	9.16	1
8333	50	4.13	4.57	5.02	5.48	6.40	8.31	
6944	60	2.68	3.06	3.44	4.46	5.12	5.81	
5952	70	1.90	2.66	2.94	3.22	3.81	4.42	
5208	80	1.75	1.99	2.24	2.50	3.03	3.58	
4630	90	1.34	1.57	1.80	2.03	2.52	3.04	
4167	100	1.07	1.28	2.09	2.32	2.77	3.24	
3788	110	1.39	1.54	1.74	1.93	2.37	3.39	

PCD55 - 687.5 MBH INPUT/550 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
12731	40	7.24	7.98	8.79	9.61	11.40	19.59	1
10185	50	4.90	5.41	5.94	6.48	7.62	10.68	
8488	60	4.31	4.77	5.22	5.68	6.62	7.57	
7275	70	2.98	3.38	3.77	4.17	4.99	5.83	
6366	80	2.21	3.12	3.40	3.70	4.32	4.96	
5658	90	1.71	2.38	2.64	2.92	3.48	4.06	
5093	100	1.66	1.90	2.15	2.40	2.92	3.52	
4630	110	1.34	1.57	1.80	2.77	3.23	3.70	

PCD65 - 812.5 MBH INPUT/650 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
12037	50	5.82	6.39	6.97	7.57	8.79	10.03	1
10031	60	3.73	4.22	4.72	7.31	8.31	9.32	
8598	70	2.64	4.47	4.89	5.32	6.19	7.09	
7523	80	2.00	3.36	3.74	4.12	4.91	5.72	
6687	90	2.34	2.67	3.53	3.87	4.56	5.24	
6019	100	1.91	2.59	2.90	3.21	3.83	4.53	
5471	110	1.89	2.17	2.45	2.73	3.29	4.85	

PCD75 - 937.5 MBH INPUT/750 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
13889	50	8.39	9.02	8.82	10.35	11.72	13.12	1
11574	60	5.27	5.82	6.39	6.96	8.14	9.35	
9921	70	3.64	4.13	4.62	5.13	6.18	8.94	
8681	80	2.70	4.37	4.79	5.22	6.11	7.01	
7716	90	2.11	3.35	3.74	4.13	4.93	5.76	
6944	100	2.33	2.67	3.03	3.39	4.13	5.39	
6313	110	1.89	2.65	2.97	3.29	3.94	4.58	

NOTES:

- All Static Values Include the Blower, Burner, and Casing
- Accessory Static Values Must be Added to Obtain the Total Static
- Brake Horsepower Does Not Include Drive Losses

Consult factory representative for:

- Higher Air Capacities or Special Applications
- Performance Data on Higher Statics than Listed
- Performance Data at Elevations Other Than Sea Level

PCD85 - 1062.5 MBH INPUT/850 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
19676	40	12.83	13.87	14.93	15.99	18.13	20.30	1
15741	50	7.35	8.20	9.05	9.91	11.67	13.45	
13117	60	4.82	5.54	7.36	7.98	9.25	10.56	
11243	70	3.46	4.75	5.29	5.84	6.96	8.13	
9838	80	3.10	3.57	4.05	4.54	5.56	8.49	
8745	90	2.41	2.84	4.74	5.16	6.04	7.95	
7870	100	1.94	3.55	3.84	4.23	5.04	5.87	
7155	110	1.61	2.86	3.21	3.58	4.33	5.68	

PCD100 - 1250 MBH INPUT/1000 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
23148	40	17.14	18.22	19.33	20.43	22.71	25.00	1-1/4"
18519	50	10.97	11.96	12.96	13.96	15.99	18.04	
15432	60	7.02	7.85	8.69	9.54	11.26	13.02	
13228	70	4.89	5.62	7.49	8.10	9.38	10.70	
11574	80	3.66	5.05	5.60	6.16	7.31	8.50	
10288	90	3.45	3.93	4.43	4.94	5.99	9.03	
9259	100	2.72	3.17	3.63	5.58	6.49	7.44	
8418	110	2.22	2.64	4.17	4.59	5.44	6.32	

PCD125 - 1562.5 MBH INPUT/1250 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
28935	40	16.22	17.62	19.04	20.51	23.54	26.74	1-1/4"
23148	50	10.76	11.82	12.91	14.02	16.35	18.79	
19290	60	6.92	7.84	12.09	13.12	15.20	17.30	
16534	70	4.90	7.81	8.70	9.59	11.39	13.23	
14468	80	5.10	5.87	6.65	7.45	9.05	10.70	
12860	90	3.97	4.66	6.51	7.08	8.31	9.59	
11574	100	3.21	4.68	5.20	5.75	6.89	8.07	
10522	110	2.65	3.80	4.30	4.81	5.87	6.97	

PCD150 - 1875 MBH INPUT/1500 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
34722	40	24.50	28.64	29.94	31.31	34.04	36.90	1-1/2"
27778	50	14.66	18.40	19.66	20.95	23.59	26.33	
23148	60	10.76	11.82	12.91	14.02	16.35	18.79	
19841	70	7.39	8.32	9.29	13.93	16.05	18.21	
17361	80	5.46	6.30	9.63	10.57	12.45	14.37	
15432	90	4.23	6.72	7.55	8.39	10.09	11.82	
13889	100	4.68	5.43	6.18	8.34	9.63	10.98	
12626	110	3.81	4.49	6.24	6.81	8.03	9.28	

PCD175 - 2187.5 MBH INPUT/1750 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
32407	50	21.80	23.34	24.90	26.50	29.79	33.22	1-1/2"
27006	60	13.62	17.11	18.35	19.61	22.19	24.88	
23148	70	10.76	11.82	12.91	14.02	16.35	18.79	
20255	80	7.77	8.72	9.70	10.72	12.86	15.14	
18004	90	5.91	6.78	10.40	11.36	13.31	15.29	
16204	100	4.70	7.48	8.35	9.22	11.00	12.80	
14731	110	3.85	6.10	6.90	7.70	9.33	11.00	

NOTES:

- All Static Values Include the Blower, Burner, and Casing
- Accessory Static Values Must be Added to Obtain the Total Static
- Brake Horsepower Does Not Include Drive Losses

Consult factory representative for:

- Higher Air Capacities or Special Applications
- Performance Data on Higher Statics than Listed
- Performance Data at Elevations Other Than Sea Level

PCD200 - 2500 MBH INPUT/2000 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
46296	40	22.66	24.60	26.59	28.65	33.03	43.86	1-1/2"
37037	50	16.18	17.89	19.64	21.46	25.24	29.26	
30864	60	10.50	11.98	18.83	20.30	23.32	26.48	
26455	70	7.48	12.13	13.40	16.70	19.16	21.73	
23148	80	7.95	10.46	11.52	12.60	14.84	17.21	
20576	90	6.12	8.05	9.01	10.01	12.10	14.33	
18519	100	5.62	6.47	7.37	8.30	13.24	15.26	
16835	110	4.56	5.36	8.41	9.31	11.14	13.00	

PCD250 - 3125 MBH INPUT/2500 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25" W.C. BHP	0.5" W.C. BHP	0.75" W.C. BHP	1.0" W.C. BHP	1.5" W.C. BHP	2.0" W.C. BHP	Gas Conn. Inches
57870	40	35.59	38.28	41.04	43.88	49.81	56.07	2"
46296	50	22.66	24.60	26.59	28.65	33.03	43.86	
38580	60	17.89	19.67	21.48	23.34	27.23	31.34	
33069	70	12.31	13.87	22.10	23.65	26.84	30.14	
28935	80	9.08	14.91	16.28	17.67	20.56	23.60	
25720	90	7.08	11.42	14.56	15.74	18.15	20.67	
23148	100	7.95	10.46	11.52	12.60	14.84	17.21	
21044	110	6.43	8.46	9.44	10.45	12.56	14.82	

PCD275 - 3437.5 MBH INPUT/2750 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
50926	50	25.65	27.71	29.79	31.90	36.30	40.99	2"
42438	60	16.62	22.96	24.90	26.86	30.92	38.36	
36376	70	14.36	16.02	17.72	19.47	23.14	27.04	
31829	80	10.18	11.65	18.78	20.25	23.28	26.43	
28292	90	8.08	9.44	14.93	16.28	19.10	22.07	
25463	100	6.52	10.76	11.98	15.01	17.39	19.87	
23148	110	7.65	8.75	11.22	12.30	14.52	16.87	

PCD300 - 3750 MBH INPUT/3000 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
55556	50	28.02	30.52	33.08	35.71	41.22	47.07	2-1/2"
46296	60	20.61	22.51	24.44	26.43	30.62	35.17	
39683	70	14.12	19.58	21.41	23.27	27.15	31.23	
34722	80	12.89	14.48	16.12	17.82	21.40	25.22	
30864	90	9.81	11.26	18.13	19.59	22.58	25.71	
27778	100	7.77	13.03	14.34	15.68	18.46	21.40	
25253	110	6.38	10.53	13.56	14.71	17.08	19.55	

PCD325 - 4062.5 MBH INPUT/3250 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
60185	50	34.40	37.07	39.79	42.58	48.37	54.48	2-1/2"
50154	60	25.26	27.31	29.38	31.48	35.86	40.52	
42989	70	17.13	18.91	20.73	27.59	31.68	35.96	
37616	80	15.59	17.30	19.04	20.84	24.58	28.55	
33436	90	11.78	13.32	14.92	23.37	26.55	29.85	
30093	100	9.29	10.72	17.15	18.58	21.52	24.60	
27357	110	7.55	12.62	13.91	17.52	20.03	22.64	

NOTES:

- All Static Values Include the Blower, Burner, and Casing
- Accessory Static Values Must be Added to Obtain the Total Static
- Brake Horsepower Does Not Include Drive Losses

Consult factory representative for:

- Higher Air Capacities or Special Applications
- Performance Data on Higher Statics than Listed
- Performance Data at Elevations Other Than Sea Level

PCD350 - 4375 MBH INPUT/3500 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
81019	40	48.29	51.64	55.00	58.39	65.33	72.56	2-1/2"
64815	50	29.42	32.21	35.04	37.92	43.92	54.90	
54012	60	21.86	24.20	26.59	29.04	34.15	39.61	
46296	70	15.21	20.08	21.98	23.90	27.90	32.21	
40509	80	13.18	14.84	20.55	22.41	26.24	30.27	
36008	90	10.07	14.39	16.05	17.74	21.30	25.10	
32407	100	10.02	11.50	13.02	20.82	23.90	27.09	
29461	110	8.12	9.49	15.60	16.98	19.85	22.85	

PCD400 - 5000 MBH INPUT/4000 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
92593	40	CONSULT FACTORY						3"
74074	50	41.31	44.50	47.68	50.90	57.47	64.32	
61728	60	26.05	28.72	35.91	38.63	44.22	40.07	
52910	70	20.86	23.16	25.51	27.92	32.99	38.40	
46296	80	15.21	20.08	21.98	23.90	27.90	32.21	
41152	90	13.69	15.37	21.28	23.16	27.04	31.11	
37037	100	10.72	15.30	16.99	18.72	22.34	26.19	
33670	110	10.90	12.43	14.00	15.62	25.81	22.73	

PCD500 - 6250 MBH INPUT/5000 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
115741	40	CONSULT FACTORY, REQUIRES					139.7	3"
92593	50	FAN SIZE GREATER THAN				77.06	84.76	
77160	60	2 - 36x36		42.40	49.27	55.92	62.71	
66138	70		29.63	32.48	40.88	46.66	52.60	
57870	80	19.47	21.95	28.17	41.38	35.91	41.38	
51440	90	14.86	19.69	21.95	28.06	32.30	36.69	
46296	100	13.76	15.77	20.61	28.34	32.55	36.87	
42088	110	11.13	15.11	16.84	23.11	27.01	31.07	

PCD600 - 7500 MBH INPUT/6000 MBH OUTPUT

Air Capacity (CFM)	Temp. Rise	0.25"	0.5"	0.75"	1.0"	1.5"	2.0"	Gas Conn. Inches
		W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	W.C. BHP	
138889	40	CONSULT FACTORY, REQUIRES						3"
111111	50	FAN SIZE GREATER THAN				127.1		
92593	60	FAN SIZE GREATER THAN				77.06	84.76	
79365	70	2 - 36x36		45.35	52.60	59.43	66.37	
69444	80		30.61	36.18	37.17	45.24	51.58	
61728	90	20.87	25.31	32.48	35.16	40.61	46.29	
55556	100	17.69	23.37	25.78	33.23	37.78	42.41	
50505	110	14.24	18.89	24.88	26.95	31.12	35.47	

STATIC PRESSURE DROP FOR ACCESSORIES

ACCESSORIES	STATIC PRESSURE DROP (w.c.)
FLAT AND ANGULAR FILTER SECTION	0.4
V-BANK FILTER SECTION	0.6
INLET HOOD	0.1
INLET LOUVER	0.2
EVAPORATIVE COOLER	0.3
INLET DAMPER	0.1
DX PLENUM AND COIL	0.6
MIX BOX W/FILTERS	0.7
HORIZONTAL DISCHARGE HEAD	0.5
4-WAY DISCHARGE HEAD	0.5

NOTES: • Accessory Static Pressure Drops are Calculated at Maximum CFM Loads.

PCDH Basic Horizontal Unit

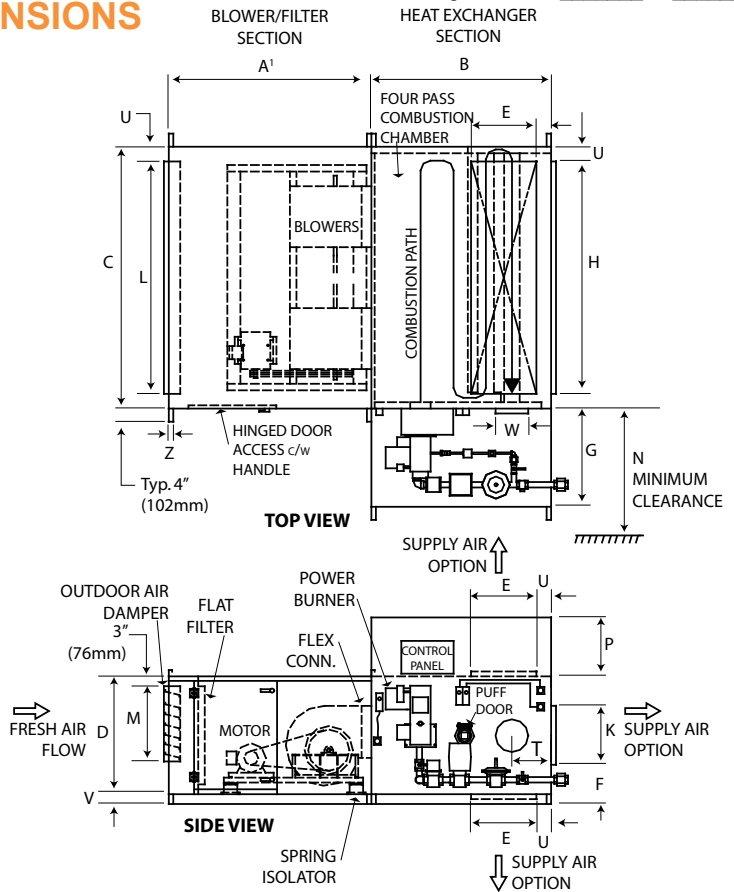
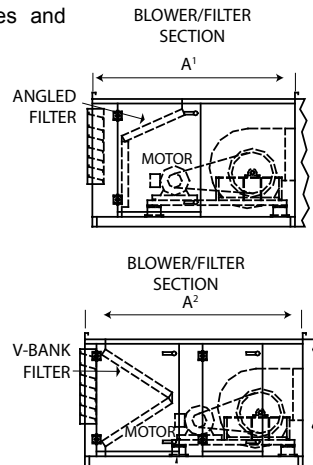
Burner Section and Blower/Filter Section only

±1/8" (3mm)

The illustration to the right shows Model PCDH. On the following pages are dimension drawings for the high cfm horizontal unit, Model HPCDH, vertical unit, Model PCDV, and the high cfm vertical unit, Model HPCDV.

Following those pages are dimension data for modular options.

Dimensions are shown in inches and (millimeters).



* Burner Section and Blower Section on Sizes 65 and greater are split and shipped separately for field attachment.

Dimensions ±1/8"

Sizes	A'	A''	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	52	62	47	32	32	18	7	30	23	18	23	19	56	18	10	4 1/2	3	8	1 3/8
35/40	60	68	47	48	32	18	7	30	39	18	39	19	56	18	10	4 1/2	3	8	1 3/8
45/55	67	72	55	60	36	20	9	30	51	18	51	23	56	18	12	4 1/2	3	10	1 3/8
65/75	62	67	55	80	36	20	9	30	71	18	71	23	56	18	12	4 1/2	3	10	1 3/8
85/100	68	75	62	80	48	20	15	30	71	18	71	35	56	12	12	4 1/2	4	12	1 9/16
125/150/175	75	85	72	100	54	30	15	32	91	24	91	41	56	12	12	4 1/2	4	12	1 9/16
200/250	80	92	72	120	60	32	15	36	111	30	111	47	56	12	12 1/2	4 1/2	4	12	1 9/16
275/300/325	87	95	84	140	65	32	17 1/2	36	131	30	131	52	56	12	14	4 1/2	4	14	1 9/16
350/400	92	101	100	160	70	32	20	36	148	30	148	57	56	-	11 1/2	6	6	16	2
500/600	107	117	141	180	80	32	16	36	168	48	168	67	56	-	14	6	6	18	2

Dimensions (±3mm)

Sizes	A'	A''	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	(1,321)	(1,575)	(1,194)	(813)	(813)	(457)	(178)	(762)	(584)	(457)	(584)	(483)	(1,422)	(457)	(254)	(114)	(76)	(203)	(35)
35/40	(1,524)	(1,727)	(1,194)	(1,219)	(813)	(457)	(178)	(762)	(991)	(457)	(991)	(483)	(1,422)	(457)	(254)	(114)	(76)	(203)	(35)
45/55	(1,702)	(1,829)	(1,397)	(1,524)	(914)	(508)	(229)	(762)	(1,295)	(457)	(1,295)	(584)	(1,422)	(457)	(305)	(114)	(76)	(254)	(35)
65/75	(1,575)	(1,702)	(1,397)	(2,032)	(914)	(508)	(229)	(762)	(1,803)	(457)	(1,803)	(584)	(1,422)	(457)	(305)	(114)	(76)	(254)	(35)
85/100	(1,727)	(1,905)	(1,575)	(2,032)	(1,219)	(508)	(381)	(762)	(1,803)	(457)	(1,803)	(889)	(1,422)	(305)	(305)	(114)	(102)	(305)	(40)
125/150/175	(1,905)	(2,159)	(1,829)	(2,540)	(1,372)	(762)	(381)	(813)	(2,311)	(610)	(2,311)	(1,041)	(1,422)	(305)	(305)	(114)	(102)	(305)	(40)
200/250	(2,032)	(2,337)	(1,829)	(3,048)	(1,524)	(813)	(381)	(914)	(2,819)	(762)	(2,819)	(1,194)	(1,422)	(305)	(318)	(114)	(102)	(305)	(40)
275/300/325	(2,210)	(2,413)	(2,134)	(3,556)	(1,651)	(813)	(445)	(914)	(3,327)	(762)	(3,327)	(1,321)	(1,422)	(305)	(356)	(114)	(102)	(356)	(40)
350/400	(2,337)	(2,565)	(2,540)	(4,064)	(1,778)	(813)	(508)	(914)	(3,759)	(762)	(3,759)	(1,448)	(1,422)	-	(292)	(152)	(152)	(406)	(51)
500/600	(2,718)	(2,972)	(3,581)	(4,572)	(2,032)	(813)	(406)	(914)	(4,267)	(1,219)	(4,267)	(1,702)	(1,422)	-	(356)	(152)	(152)	(457)	(51)

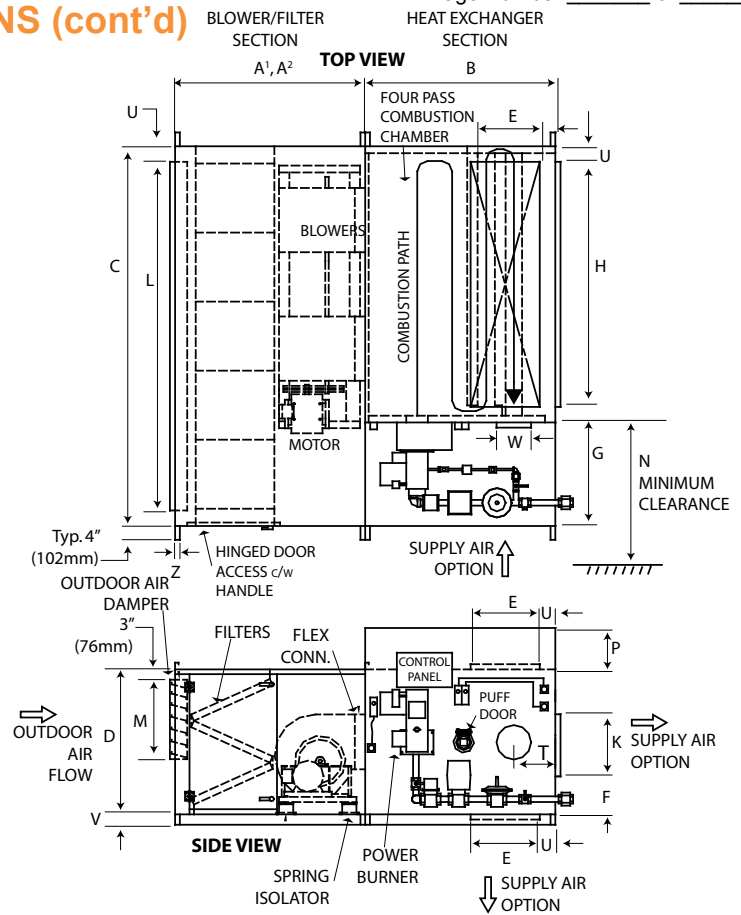
	20/25	35/40	45/55	65/75	85/100	125/150/175	200/250	275/300/325	350/400	500/600
Base Weight Lbs.	1,510	1,900	2,375	3,055	3,810	5,335	6,700	8,590	10,280	15,170
with V-Bank Filter Rack	1,675	1,980	2,480	3,220	3,990	5,390	6,765	8,655	10,365	15,295
Base Weight (kg)	(685)	(862)	(1077)	(1386)	(1728)	(2420)	(3039)	(3896)	(4663)	(6881)
with V-Bank Filter Rack	(760)	(898)	(1125)	(1461)	(1810)	(2445)	(3069)	(3926)	(4702)	(6938)

Note: Dimension A', Blower Section, includes standard flat filter rack. Optional angled filter rack may be substituted at manufacturer's discretion. Angle filter rack section does not change unit dimensions. Dimension A'' indicates length of blower cabinet with V-Bank Filters.

HPCDH Basic Horizontal Unit (Indoor Unit)

Burner Section and Blower/Filter Section only

±1/8" (3mm)



* Burner Section and Blower Section on Sizes 65 and greater are split and shipped separately for field attachment.

Dimensions ±1/8"

Sizes	A ¹	A ²	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	37	52	47	62	38	18	9	30	23	18	53	19	56	12	10	4 1/2	3	8	1 3/8
35/40	40	55	47	78	38	18	9	30	39	18	69	19	56	12	10	4 1/2	3	8	1 3/8
45/55	47	60	55	90	42	20	11	30	51	18	81	23	56	12	12	4 1/2	3	10	1 3/8
65/75	47	55	55	110	42	20	12	30	71	18	101	23	56	8	12	4 1/2	3	10	1 3/8
85/100	50	60	62	110	54	20	18	30	71	18	101	35	56	4	12	4 1/2	4	12	1 9/16
125/150/175	57	84	72	132	60	30	18	32	91	24	123	41	56	6	12	4 1/2	4	12	1 9/16
200/250	60	90	72	156	66	32	17 1/2	36	111	30	147	47	56	6	12 1/2	4 1/2	4	12	1 9/16
275/300/325	65	95	84	176	71	32	20	36	131	30	167	52	56	6	14	4 1/2	4	14	1 9/16
350/400	68	98	100	196	76	32	27 1/2	36	148	30	184	57	56	-	11 1/2	6	6	16	2
500/600	77	102	141	216	86	32	21	36	168	48	204	67	56	-	14	6	6	18	2

Dimensions (±3mm)

Sizes	A ¹	A ²	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	(940)	(1,321)	(1,194)	(1,575)	(965)	(457)	(229)	(762)	(584)	(457)	(1,346)	(483)	(1,422)	(305)	(254)	(114)	(76)	(203)	(35)
35/40	(1,016)	(1,397)	(1,194)	(1,981)	(965)	(457)	(229)	(762)	(991)	(457)	(1,753)	(483)	(1,422)	(305)	(254)	(114)	(76)	(203)	(35)
45/55	(1,194)	(1,524)	(1,397)	(2,286)	(1,067)	(508)	(279)	(762)	(1,295)	(457)	(2,057)	(584)	(1,422)	(305)	(305)	(114)	(76)	(254)	(35)
65/75	(1,194)	(1,397)	(1,397)	(2,794)	(1,067)	(508)	(305)	(762)	(1,803)	(457)	(2,565)	(584)	(1,422)	(203)	(305)	(114)	(76)	(254)	(35)
85/100	(1,270)	(1,524)	(1,575)	(2,794)	(1,372)	(508)	(457)	(762)	(1,803)	(457)	(2,565)	(889)	(1,422)	(102)	(305)	(114)	(102)	(305)	(40)
125/150/175	(1,448)	(2,134)	(1,829)	(3,353)	(1,524)	(762)	(457)	(813)	(2,311)	(610)	(3,124)	(1,041)	(1,422)	(152)	(305)	(114)	(102)	(305)	(40)
200/250	(1,524)	(2,286)	(1,829)	(3,962)	(1,676)	(813)	(445)	(914)	(2,819)	(762)	(3,734)	(1,194)	(1,422)	(152)	(318)	(114)	(102)	(305)	(40)
275/300/325	(1,651)	(2,413)	(2,134)	(4,470)	(1,803)	(813)	(508)	(914)	(3,327)	(762)	(4,242)	(1,321)	(1,422)	(152)	(356)	(114)	(102)	(356)	(40)
350/400	(1,727)	(2,489)	(2,540)	(4,978)	(1,930)	(813)	(699)	(914)	(3,759)	(762)	(4,674)	(1,448)	(1,422)	-	(292)	(152)	(152)	(406)	(51)
500/600	(1,956)	(2,591)	(3,581)	(5,486)	(2,184)	(813)	(533)	(914)	(4,267)	(1,219)	(5,182)	(1,702)	(1,422)	-	(356)	(152)	(152)	(457)	(51)

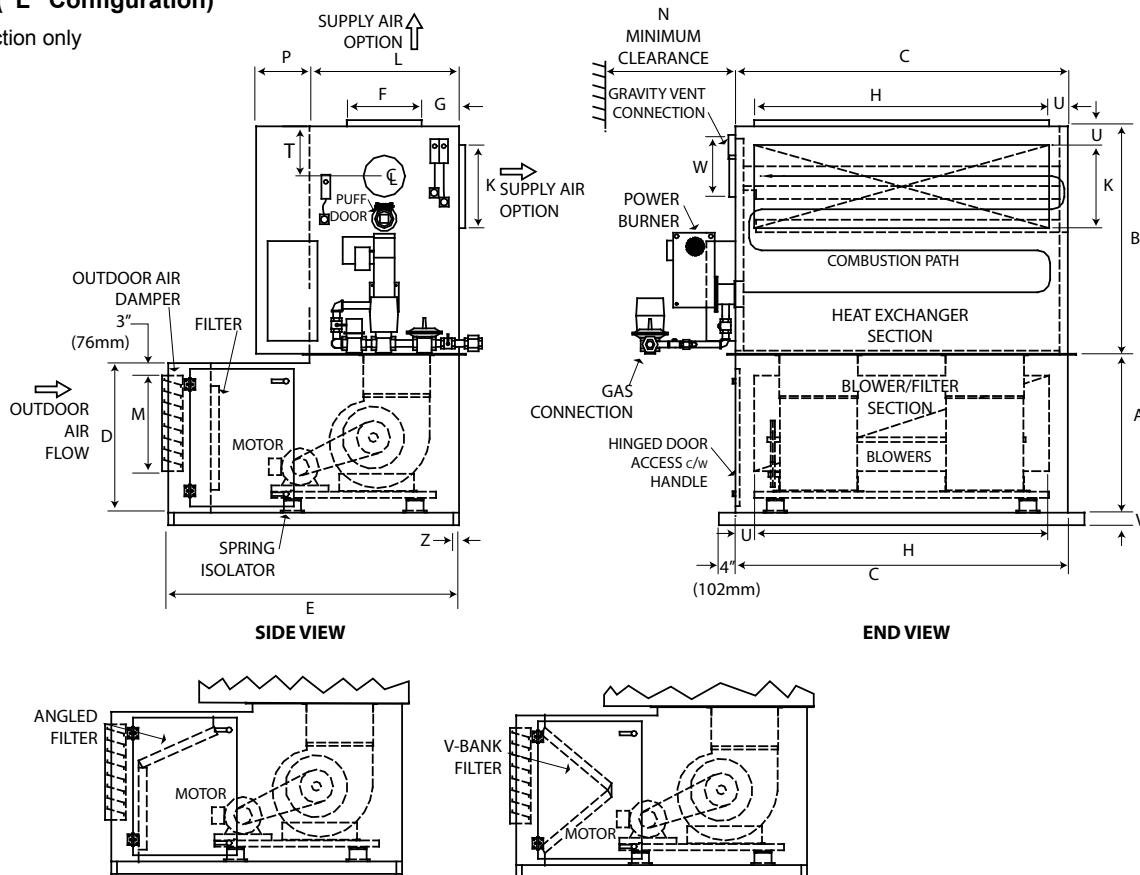
Note: Dimension A¹, Blower Section, includes flat filter rack. Optional angled filter rack does not change unit dimensions. Dimension A² indicates length of blower cabinet with V-Bank Filters.

	20/25	35/40	45/55	65/75	85/100	125/150/175	200/250	275/300/325	350/400	500/600
Base Weight Lbs.	1,770	2,265	2,865	3,565	2,548	5,880	7,365	9,275	11,070	16,025
with V-Bank Filter Rack	2,020	2,390	3,045	3,805	2,798	5,950	7,455	9,350	11,160	16,190
Base Weight (kg)	(803)	(1027)	(1300)	(1617)	(1156)	(2667)	(3341)	(4207)	(5021)	(7269)
with V-Bank Filter Rack	(916)	(1084)	(1381)	(1726)	(1269)	(2699)	(3382)	(4241)	(5062)	(7344)

PCDV Basic Vertical Unit ("L" Configuration)

Burner Section and Blower Section only

±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	34	47	32	32	64	18	7	23	18	32	19	56	15	10	4 1/2	3	8	1 3/8
35/40	34	47	48	32	64	18	7	39	18	32	19	56	15	10	4 1/2	3	8	1 3/8
45/55	38	55	60	36	70	18	9	51	20	36	23	56	10	12	4 1/2	3	10	1 3/8
65/75	38	55	80	36	70	18	9	71	20	36	23	56	10	12	4 1/2	3	10	1 3/8
85/100	50	62	80	48	82	18	15	71	20	48	35	56	10	12	4 1/2	4	12	1 9/16
125/150/175	56	72	100	54	90	24	15	91	30	54	41	56	10	12	4 1/2	4	12	1 9/16
200/250	62	72	120	60	95	30	15	111	32	60	47	56	10	12 1/2	4 1/2	4	12	1 9/16
275/300/325	67	84	140	65	96	30	17 1/2	131	32	65	52	56	-	14	4 1/2	4	14	1 9/16
350/400	72	100	160	70	107	30	20	148	32	70	57	56	-	11 1/2	6	6	16	2
500/600	82	141	180	80	117	48	16	168	32	80	67	56	-	14	6	6	18	2

Dimensions (±3mm)

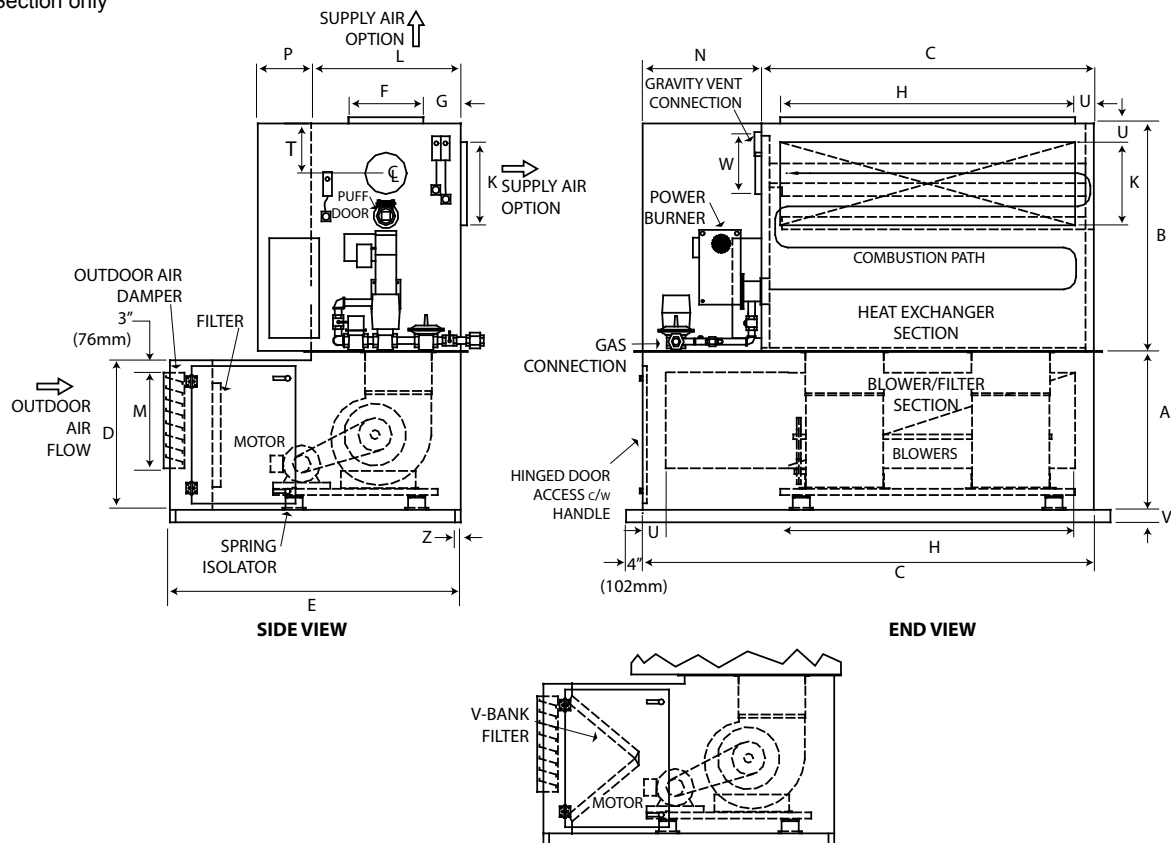
Sizes	A	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	(864)	(1,194)	(813)	(813)	(1,626)	(457)	(178)	(584)	(457)	(813)	(483)	(1,422)	(381)	(254)	(114)	(76)	(203)	(35)
35/40	(864)	(1,194)	(1,219)	(813)	(1,626)	(457)	(178)	(991)	(457)	(813)	(483)	(1,422)	(381)	(254)	(114)	(76)	(203)	(35)
45/55	(965)	(1,397)	(1,524)	(914)	(1,778)	(457)	(229)	(1,295)	(508)	(914)	(584)	(1,422)	(254)	(305)	(114)	(76)	(254)	(35)
65/75	(965)	(1,397)	(2,032)	(914)	(1,778)	(457)	(229)	(1,803)	(508)	(914)	(584)	(1,422)	(254)	(305)	(114)	(76)	(254)	(35)
85/100	(1,270)	(1,575)	(2,032)	(1,219)	(2,083)	(457)	(381)	(1,803)	(508)	(1,219)	(889)	(1,422)	(254)	(305)	(114)	(102)	(305)	(40)
125/150/175	(1,422)	(1,829)	(2,540)	(1,372)	(2,286)	(610)	(381)	(2,311)	(762)	(1,372)	(1,041)	(1,422)	(254)	(305)	(114)	(102)	(305)	(40)
200/250	(1,575)	(1,829)	(3,048)	(1,524)	(2,413)	(762)	(381)	(2,819)	(813)	(1,524)	(1,194)	(1,422)	(254)	(318)	(114)	(102)	(305)	(40)
275/300/325	(1,702)	(2,134)	(3,556)	(1,651)	(2,438)	(762)	(445)	(3,327)	(813)	(1,651)	(1,321)	(1,422)	-	(356)	(114)	(102)	(356)	(40)
350/400	(1,829)	(2,540)	(4,064)	(1,778)	(2,718)	(762)	(508)	(3,759)	(813)	(1,778)	(1,448)	(1,422)	-	(292)	(152)	(152)	(406)	(51)
500/600	(2,083)	(3,581)	(4,572)	(2,032)	(2,972)	(1,219)	(406)	(4,267)	(813)	(2,032)	(1,702)	(1,422)	-	(356)	(152)	(152)	(457)	(51)

	20/25	35/40	45/55	65/75	85/100	125/150/175	200/250	275/300/325	350/400	500/600
Base Weight Lbs.	1,510	1,900	2,375	3,055	3,810	5,335	6,700	8,590	10,280	15,170
with V-Bank Filter Rack	1,675	1,980	2,480	3,220	3,990	5,390	6,765	8,655	10,365	15,295
Base Weight (kg)	(685)	(862)	(1,077)	(1,386)	(1,728)	(2,420)	(3,039)	(3,896)	(4,663)	(6,881)
with V-Bank Filter Rack	(760)	(898)	(1,125)	(1,461)	(1,810)	(2,445)	(3,069)	(3,926)	(4,702)	(6,938)

HPCDV Basic Vertical Unit ("L" Configuration)

Burner Section and Blower Section only

±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	40	47	62	38	64	18	10	23	18	38	19	56	15	10	4 1/2	3	8	1 3/8
35/40	40	47	78	38	64	18	10	39	18	38	19	56	15	10	4 1/2	3	8	1 3/8
45/55	44	55	90	42	70	18	12	51	20	42	23	56	10	12	4 1/2	3	10	1 3/8
65/75	44	55	110	42	70	18	12	71	20	42	23	56	10	12	4 1/2	3	10	1 3/8
85/100	56	62	110	54	82	18	18	71	20	54	35	56	10	12	4 1/2	4	12	1 9/16
125/150/175	62	72	130	60	90	24	18	91	30	60	41	56	10	12	4 1/2	4	12	1 9/16
200/250	68	72	150	66	95	30	18	111	32	66	47	56	10	12 1/2	4 1/2	4	12	1 9/16
275/300/325	73	84	170	71	96	30	20 1/2	131	32	71	52	56	-	14	4 1/2	4	14	1 9/16
350/400	78	100	190	76	107	30	23	148	32	76	57	56	-	11 1/2	6	6	16	2
500/600	88	141	210	86	117	48	19	168	32	86	67	56	-	14	6	6	18	2

Dimensions (±3mm)

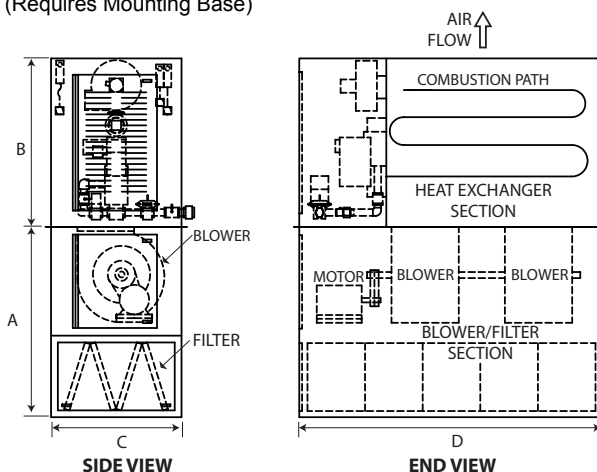
Sizes	A	B	C	D	E	F	G	H	K	L	M	N	P	T	U	V	W	Z
20/25	(1,016)	(1,194)	(1,575)	(965)	(1,626)	(457)	(254)	(584)	(457)	(965)	(483)	(1,422)	(381)	(254)	(114)	(76)	(203)	(35)
35/40	(1,016)	(1,194)	(1,981)	(965)	(1,626)	(457)	(254)	(991)	(457)	(965)	(483)	(1,422)	(381)	(254)	(114)	(76)	(203)	(35)
45/55	(1,118)	(1,397)	(2,286)	(1,067)	(1,778)	(457)	(305)	(1,295)	(508)	(1,067)	(584)	(1,422)	(254)	(305)	(114)	(76)	(254)	(35)
65/75	(1,118)	(1,397)	(2,794)	(1,067)	(1,778)	(457)	(305)	(1,803)	(508)	(1,067)	(584)	(1,422)	(254)	(305)	(114)	(76)	(254)	(35)
85/100	(1,422)	(1,575)	(2,794)	(1,372)	(2,083)	(457)	(457)	(1,803)	(508)	(1,372)	(889)	(1,422)	(254)	(305)	(114)	(102)	(305)	(40)
125/150/175	(1,575)	(1,829)	(3,302)	(1,524)	(2,286)	(610)	(457)	(2,311)	(762)	(1,524)	(1,041)	(1,422)	(254)	(305)	(114)	(102)	(305)	(40)
200/250	(1,727)	(1,829)	(3,810)	(1,676)	(2,413)	(762)	(457)	(2,819)	(813)	(1,676)	(1,194)	(1,422)	(254)	(318)	(114)	(102)	(305)	(40)
275/300/325	(1,854)	(2,134)	(4,318)	(1,803)	(2,438)	(762)	(521)	(3,327)	(813)	(1,803)	(1,321)	(1,422)	-	(356)	(114)	(102)	(356)	(40)
350/400	(1,981)	(2,540)	(4,826)	(1,930)	(2,718)	(762)	(584)	(3,759)	(813)	(1,930)	(1,448)	(1,422)	-	(292)	(152)	(152)	(406)	(51)
500/600	(2,235)	(3,581)	(5,334)	(2,184)	(2,972)	(1,219)	(483)	(4,267)	(813)	(2,184)	(1,702)	(1,422)	-	(356)	(152)	(152)	(457)	(51)

	20/25	35/40	45/55	65/75	85/100	125/150/175	200/250	275/300/325	350/400	500/600
Base Weight Lbs.	1,770	2,265	2,865	3,565	4,245	5,880	7,365	9,275	11,070	16,025
with V-Bank Filter Rack	2,020	2,390	3,045	3,805	4,495	5,950	7,455	9,350	11,160	16,190
Base Weight (kg)	(803)	(1027)	(1300)	(1617)	(1926)	(2667)	(3341)	(4207)	(5021)	(7269)
with V-Bank Filter Rack	(916)	(1084)	(1381)	(1726)	(2039)	(2699)	(3382)	(4241)	(5062)	(7344)

HPCDV Basic Vertical Unit ("I" Configuration)

Burner Section and Blower Section only (Requires Mounting Base)

±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C
20/25	42	38	62
35/40	48	38	78
45/55	54	42	90
65/75	60	42	110
85/100	60	54	110
125/150/175	70	60	132
200/250	100	66	156
275/300/325	100	71	176
350/400	100	86	196
500/600	120	86	216

Dimensions (±3mm)

Sizes	A	B	C
20/25	(1,067)	(965)	(1,575)
35/40	(1,219)	(965)	(1,981)
45/55	(1,372)	(1,067)	(2,286)
65/75	(1,524)	(1,067)	(2,794)
85/100	(1,524)	(1,372)	(2,794)
125/150/175	(1,778)	(1,524)	(3,353)
200/250	(2,540)	(1,676)	(3,962)
275/300/325	(2,540)	(1,803)	(4,470)
350/400	(2,540)	(2,184)	(4,978)
500/600	(3,048)	(2,184)	(5,486)

PCDH/HPCDH (Outdoor Unit)

Outdoor units include a weatherhousing that covers the control section. Weatherhousing roof slopes away from controls on sizes 125 and larger.

Outdoor unit shown here with optional Louvered Inlet Air Hood.

Vertical ("L" Configuration) outdoor units have the same louvered inlet hood sizes. The weatherhousing conforms to the size of the controls section.

±1/8" (3mm)

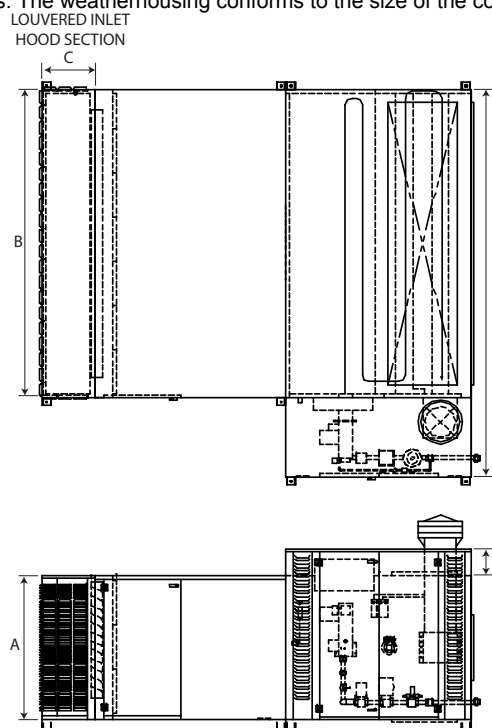
Dimensions ±1/8"

Sizes	A¹	A²	B¹	B²	C	D	E
20/25	32	38	32	62	10	62	18
35/40	32	38	48	78	10	78	18
45/55	36	42	60	90	10	90	18
65/75	36	42	80	110	10	110	18
85/100	48	54	80	110	10	110	12
125/150/175	54	60	100	132	24	132	12
200/250	60	66	120	156	24	156	12
275/300/325	65	71	140	176	24	176	12
350/400	70	76	160	196	24	196	-
500/600	80	86	180	216	24	216	-

Dimensions (±3mm)

Sizes	A¹	A²	B¹	B²	C	D	E
20/25	(813)	(965)	(813)	(1,575)	(254)	(1,575)	(457)
35/40	(813)	(965)	(1,219)	(1,981)	(254)	(1,981)	(457)
45/55	(914)	(1,067)	(1,524)	(2,286)	(254)	(2,286)	(457)
65/75	(914)	(1,067)	(2,032)	(2,794)	(254)	(2,794)	(457)
85/100	(1,219)	(1,372)	(2,032)	(2,794)	(254)	(2,794)	(305)
125/150/175	(1,372)	(1,524)	(2,540)	(3,353)	(610)	(3,353)	(305)
200/250	(1,524)	(1,676)	(3,048)	(3,962)	(610)	(3,962)	(305)
275/300/325	(1,651)	(1,803)	(3,556)	(4,470)	(610)	(4,470)	(305)
350/400	(1,778)	(1,930)	(4,064)	(4,978)	(610)	(4,978)	-
500/600	(2,032)	(2,184)	(4,572)	(5,486)	(610)	(5,486)	-

Note: A¹ and B¹ are dimensions for Model PCDH. A² and B² are dimensions for Model HPCDH



Weight PCDH - lbs. (kg)

	20/25	35/40	45/55	65/75	85/100	125/150/175	200/250	275/300/325	350/400	500/600
Base Unit	1,750	2,140	2,645	3,325	4,110	5,685	7,125	9,090	10,930	15,845
with V-Bank Filter Rack	1,915	2,220	2,750	3,490	4,290	5,740	7,190	9,155	11,015	15,970
Base Unit	(794)	(971)	(1200)	(1508)	(1864)	(2579)	(3232)	(4123)	(4958)	(7187)
with V-Bank Filter Rack	(869)	(1007)	(1247)	(1583)	(1946)	(2604)	(3261)	(4153)	(4996)	(7244)

HWeight PCDH - lbs. (kg)

	20/25	35/40	45/55	65/75	85/100	125/150/175	200/250	275/300/325	350/400	500/600
Base Weight Lbs.	2,010	2,505	3,135	3,835	2,848	6,230	7,790	9,775	11,720	16,700
with V-Bank Filter Rack	2,260	2,630	3,315	4,075	3,098	6,300	7,880	9,850	11,810	16,865
Base Weight (kg)	(912)	(1136)	(1422)	(1740)	(1292)	(2826)	(3534)	(4434)	(5316)	(7575)
with V-Bank Filter Rack	(1025)	(1193)	(1504)	(1848)	(1405)	(2858)	(3574)	(4468)	(5357)	(7650)

PCD Accessories

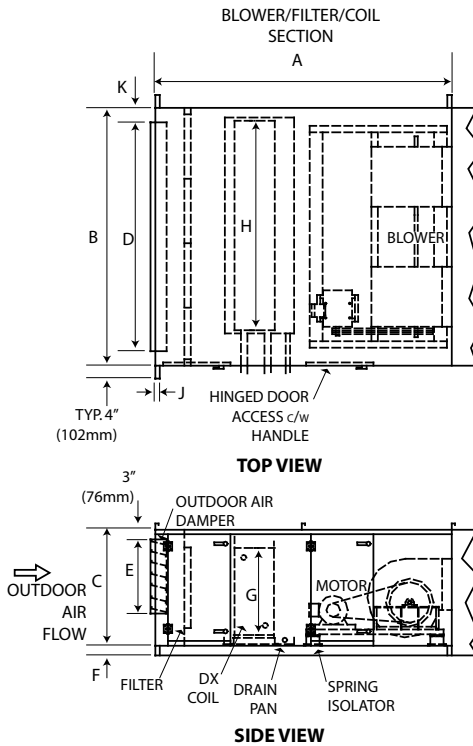
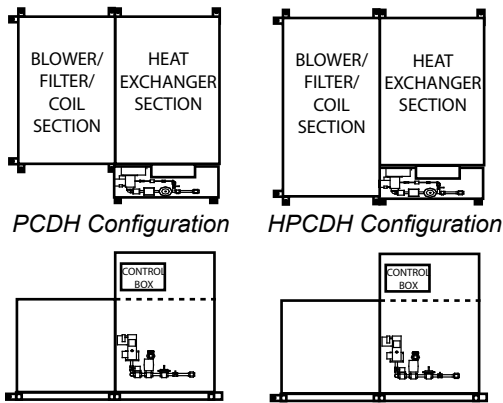
Blower/Filter/Coil Section

±1/8" (3mm)

Displayed on the following pages are accessory modules for Model PCD.

The illustration on the left will show the relative location and size of the module. For example, this page shows the Blower/Filter/Coil Section which replaces the Blower/Filter section. Other optional sections will be shown attached to the downstream air side of the Blower Section

Dimensional drawings and a dimension table in inches (mm) are also shown.



Dimensions ±1/8"

Sizes	A ¹	A ²	B ¹	B ²	C ¹	C ²	D ¹	D ²	E	F	G ¹	G ²	H ¹	H ²	J	K
20/25	82	67	32	62	32	38	23	53	19	3	23	29	22	47	1 3/8	4 1/2
35/40	90	70	48	78	32	38	39	69	19	3	23	29	23	63	1 3/8	4 1/2
45/55	97	77	60	90	36	42	51	81	23	3	27	33	45	75	1 3/8	4 1/2
65/75	92	72	80	110	36	42	71	101	23	3	27	33	65	95	1 3/8	4 1/2
85/100	98	80	80	110	48	54	71	101	35	4	39	44	65	95	1 9/16	4 1/2
125/150/175	102	87	100	132	54	60	91	123	41	4	45	51	85	117	1 9/16	4 1/2
200/250	100	90	120	156	60	66	111	147	47	4	51	57	102	141	1 9/16	4 1/2
275/300/325	102	95	140	176	65	71	131	167	52	4	56	62	125	161	1 9/16	4 1/2
350/400	102	98	160	196	70	76	148	184	57	6	61	67	145	181	2	6
500/600	108	102	180	220	80	86	168	204	67	6	71	77	165	201	2	6

Dimensions (±3mm)

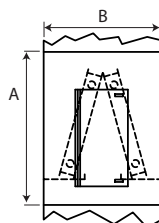
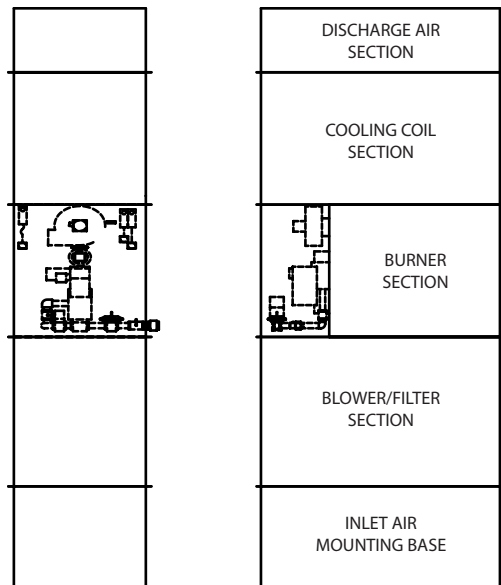
Sizes	A ¹	A ²	B ¹	B ²	C ¹	C ²	D ¹	D ²	E	F	G ¹	G ²	H ¹	H ²	J	K
20/25	(2,083)	(1,702)	(813)	(1,575)	(813)	(965)	(584)	(1,346)	(483)	(76)	(584)	(737)	(559)	(1,194)	(35)	(114)
35/40	(2,286)	(1,778)	(1,219)	(1,981)	(813)	(965)	(991)	(1,753)	(483)	(76)	(584)	(737)	(584)	(1,600)	(35)	(114)
45/55	(2,464)	(1,956)	(1,524)	(2,286)	(914)	(1,067)	(1,295)	(2,057)	(584)	(76)	(686)	(838)	(1,143)	(1,905)	(35)	(114)
65/75	(2,337)	(1,829)	(2,032)	(2,794)	(914)	(1,067)	(1,803)	(2,565)	(584)	(76)	(686)	(838)	(1,651)	(2,413)	(35)	(114)
85/100	(2,489)	(2,032)	(2,032)	(2,794)	(1,219)	(1,372)	(1,803)	(2,565)	(889)	(102)	(991)	(1,118)	(1,651)	(2,413)	(40)	(114)
125/150/175	(2,591)	(2,210)	(2,540)	(3,353)	(1,372)	(1,524)	(2,311)	(3,124)	(1,041)	(102)	(1,143)	(1,295)	(2,159)	(2,972)	(40)	(114)
200/250	(2,540)	(2,286)	(3,048)	(3,962)	(1,524)	(1,676)	(2,819)	(3,734)	(1,194)	(102)	(1,295)	(1,448)	(2,591)	(3,581)	(40)	(114)
275/300/325	(2,591)	(2,413)	(3,556)	(4,470)	(1,651)	(1,803)	(3,327)	(4,242)	(1,321)	(102)	(1,422)	(1,575)	(3,175)	(4,089)	(40)	(114)
350/400	(2,591)	(2,489)	(4,064)	(4,978)	(1,778)	(1,930)	(3,759)	(4,674)	(1,448)	(152)	(1,549)	(1,702)	(3,683)	(4,597)	(51)	(152)
500/600	(2,743)	(2,591)	(4,572)	(5,588)	(2,032)	(2,184)	(4,267)	(5,182)	(1,702)	(152)	(1,803)	(1,956)	(4,191)	(5,105)	(51)	(152)

Note: A¹, B¹, etc. are dimensions for Model PCDH. A², B², etc. are dimensions for Model HPCDH

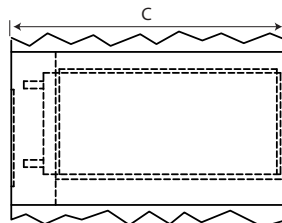
HPCDV Accessories ("I" Configuration) (cont'd)

Cooling Coil Cabinet (Indoor/Outdoor)

±1/8" (3mm)



SIDE VIEW



END VIEW

Dimensions ±1/8"

Sizes	A	B	C
20/25	42	38	62
35/40	48	38	78
45/55	54	42	90
65/75	60	42	110
85/100	60	54	110
125/150/175	70	60	132
200/250	100	66	156
275/300/325	100	71	176
350/400	100	86	196
500/600	120	86	216

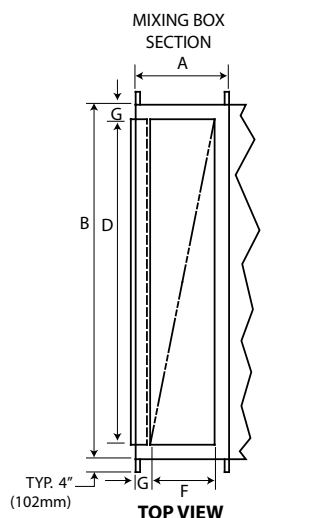
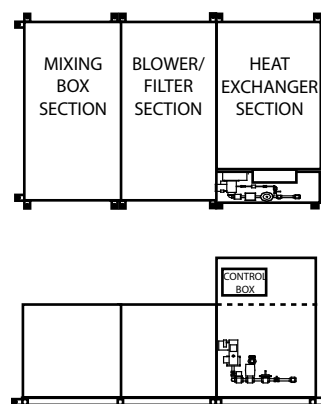
Dimensions (±3mm)

Sizes	A	B	C
20/25	(1,067)	(965)	(1,575)
35/40	(1,219)	(965)	(1,981)
45/55	(1,372)	(1,067)	(2,286)
65/75	(1,524)	(1,067)	(2,794)
85/100	(1,524)	(1,372)	(2,794)
125/150/175	(1,778)	(1,524)	(3,353)
200/250	(2,540)	(1,676)	(3,962)
275/300/325	(2,540)	(1,803)	(4,470)
350/400	(2,540)	(2,184)	(4,978)
500/600	(3,048)	(2,184)	(5,486)

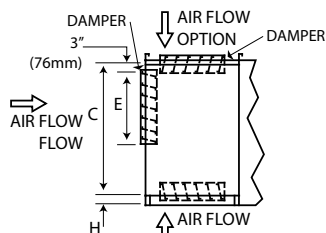
HPCDH Accessories (cont'd)

Mixing Box

±1/8" (3mm)



TOP VIEW



SIDE VIEW

Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H
20/25	27	62	38	53	19	3	4 1/2	18
35/40	27	78	38	69	19	3	4 1/2	18
45/55	29	90	42	81	23	3	4 1/2	20
65/75	29	110	42	101	23	3	4 1/2	20
85/100	29	110	54	101	35	4	4 1/2	20
125/150/175	39	132	60	123	41	4	4 1/2	30
200/250	41	156	66	147	47	4	4 1/2	32
275/300/325	41	176	71	167	52	4	4 1/2	32
350/400	44	196	76	184	57	6	6	32
500/600	44	216	86	204	67	6	6	32

Dimensions (±3mm)

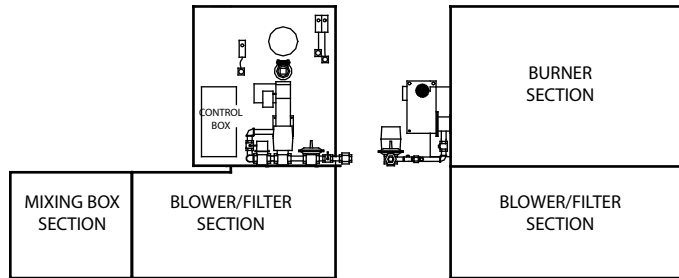
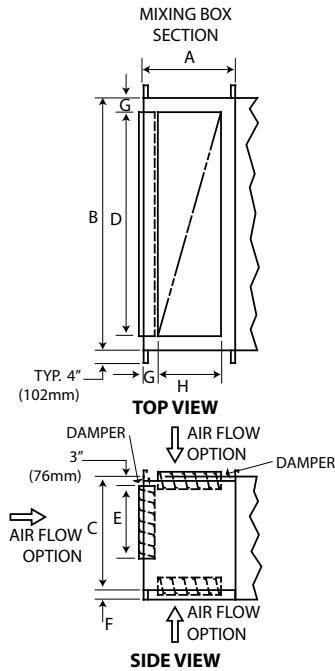
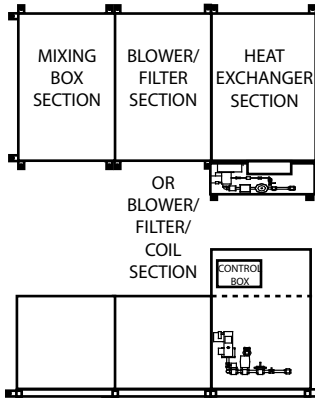
Sizes	A	B	C	D	E	F	G	H
20/25	(686)	(1,575)	(965)	(1,346)	(483)	(76)	(114)	(457)
35/40	(686)	(1,981)	(965)	(1,753)	(483)	(76)	(114)	(457)
45/55	(737)	(2,286)	(1,067)	(2,057)	(584)	(76)	(114)	(508)
65/75	(737)	(2,794)	(1,067)	(2,565)	(584)	(76)	(114)	(508)
85/100	(737)	(2,794)	(1,372)	(2,565)	(889)	(102)	(114)	(508)
125/150/175	(991)	(3,353)	(1,524)	(3,124)	(1,041)	(102)	(114)	(762)
200/250	(1,041)	(3,962)	(1,676)	(3,734)	(1,194)	(102)	(114)	(813)
275/300/325	(1,041)	(4,470)	(1,803)	(4,242)	(1,321)	(102)	(114)	(813)
350/400	(1,118)	(4,978)	(1,930)	(4,674)	(1,448)	(152)	(152)	(813)
500/600	(1,118)	(5,486)	(2,184)	(5,182)	(1,702)	(152)	(152)	(813)

Weight - Mixing Box only (Add to base unit weight)

lbs	200	260	335	420	495	710	935	1055	1250	1555
(kg)	(91)	(118)	(152)	(191)	(225)	(322)	(424)	(479)	(567)	(705)

Mixing Box

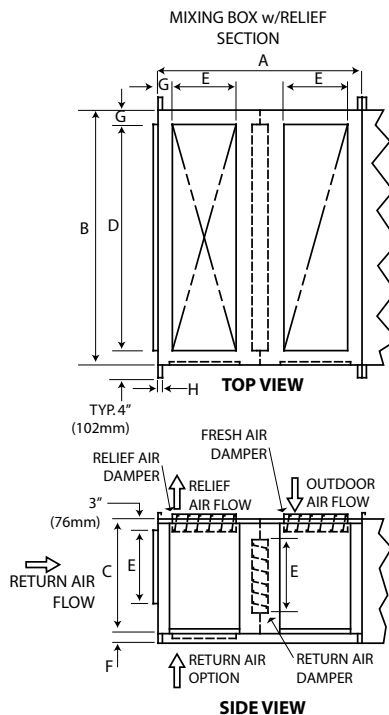
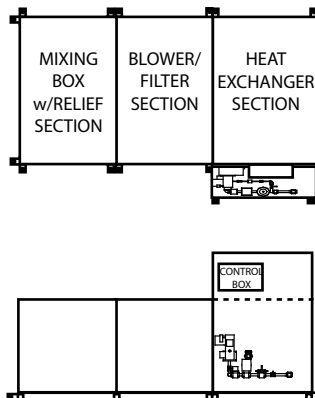
±1/8" (3mm)



PCDH Accessories (cont'd)

Mixing Box w/Relief (Indoor)

±1/8" (3mm)



DIMENSIONS (cont'd)

Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H
20/25	27	32	32	23	19	3	4 1/2	18
35/40	27	48	32	39	19	3	4 1/2	18
45/55	29	60	36	51	23	3	4 1/2	20
65/75	29	80	36	71	23	3	4 1/2	20
85/100	29	80	48	71	35	4	4 1/2	20
125/150/175	39	100	54	91	41	4	4 1/2	30
200/250	41	120	60	111	47	4	4 1/2	32
275/300/325	41	140	65	131	52	4	4 1/2	32
350/400	44	160	70	148	57	6	6	32
500/600	44	180	80	168	67	6	6	32

Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G	H
20/25	(686)	(813)	(813)	(584)	(483)	(76)	(114)	(457)
35/40	(686)	(1,219)	(813)	(991)	(483)	(76)	(114)	(457)
45/55	(737)	(1,524)	(914)	(1,295)	(584)	(76)	(114)	(508)
65/75	(737)	(2,032)	(914)	(1,803)	(584)	(76)	(114)	(508)
85/100	(737)	(2,032)	(1,219)	(1,803)	(889)	(102)	(114)	(508)
125/150/175	(991)	(2,540)	(1,372)	(2,311)	(1,041)	(102)	(114)	(762)
200/250	(1,041)	(3,048)	(1,524)	(2,819)	(1,194)	(102)	(114)	(813)
275/300/325	(1,041)	(3,556)	(1,651)	(3,327)	(1,321)	(102)	(114)	(813)
350/400	(1,118)	(4,064)	(1,778)	(3,759)	(1,448)	(152)	(152)	(813)
500/600	(1,118)	(4,572)	(2,032)	(4,267)	(1,702)	(152)	(152)	(813)

Weight - Mixing Box only (Add to base unit weight)

lbs	200	260	335	420	495	710	935	1055	1250	1555
(kg)	(91)	(118)	(152)	(191)	(225)	(322)	(424)	(479)	(567)	(705)

Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H
20/25	27	32	32	23	19	3	4 1/2	1 3/8
35/40	27	48	32	39	19	3	4 1/2	1 3/8
45/55	29	60	36	51	23	3	4 1/2	1 3/8
65/75	29	80	36	71	23	3	4 1/2	1 3/8
85/100	29	80	48	71	35	4	4 1/2	1 9/16
125/150/175	39	100	54	91	41	4	4 1/2	1 9/16
200/250	41	120	60	111	47	4	4 1/2	1 9/16
275/300/325	41	140	65	131	52	4	4 1/2	1 9/16
350/400	44	160	70	148	57	6	6	2
500/600	44	180	80	168	67	6	6	2

Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G	H
20/25	(686)	(813)	(813)	(584)	(483)	(76)	(114)	(35)
35/40	(686)	(1,219)	(813)	(991)	(483)	(76)	(114)	(35)
45/55	(737)	(1,524)	(914)	(1,295)	(584)	(76)	(114)	(35)
65/75	(737)	(2,032)	(914)	(1,803)	(584)	(76)	(114)	(35)
85/100	(737)	(2,032)	(1,219)	(1,803)	(889)	(102)	(114)	(40)
125/150/175	(991)	(2,540)	(1,372)	(2,311)	(1,041)	(102)	(114)	(40)
200/250	(1,041)	(3,048)	(1,524)	(2,819)	(1,194)	(102)	(114)	(40)
275/300/325	(1,041)	(3,556)	(1,651)	(3,327)	(1,321)	(102)	(114)	(40)
350/400	(1,118)	(4,064)	(1,778)	(3,759)	(1,448)	(152)	(152)	(51)
500/600	(1,118)	(4,572)	(2,032)	(4,267)	(1,702)	(152)	(152)	(51)

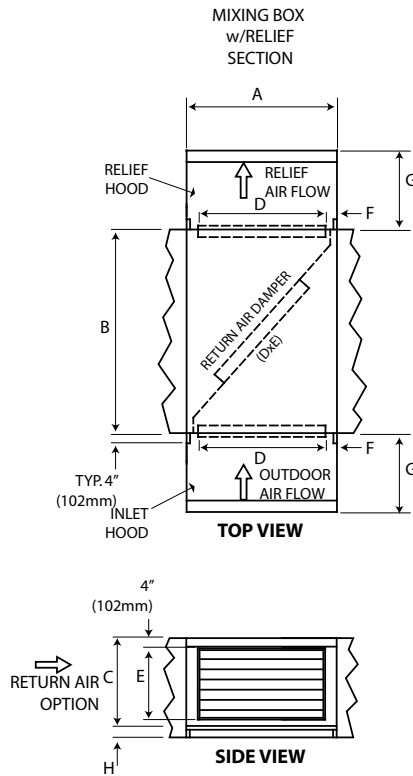
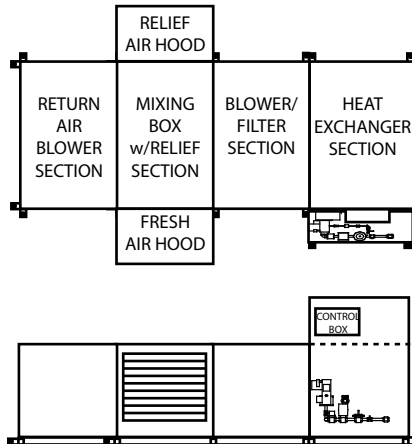
Weight - Mixing Box only (Add to base unit weight)

lbs	220	290	380	480	580	825	1100	1270	1500	1875
(kg)	(100)	(132)	(172)	(218)	(263)	(374)	(499)	(576)	(680)	(851)

PCDH Accessories (cont'd)

Mixing Box w/Relief (Outdoor)

±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H
20/25	29	32	32	20	24	4 1/2	28	3
35/40	39	48	32	30	24	4 1/2	28	3
45/55	45	60	36	36	28	4 1/2	31	3
65/75	59	80	36	50	28	4 1/2	31	3
85/100	51	80	48	42	40	4 1/2	39	4
125/150/175	69	100	54	60	46	4 1/2	53	4
200/250	73	120	60	64	52	4 1/2	59	4
275/300/325	79	140	65	70	57	4 1/2	64	4
350/400	90	160	70	78	62	6	69	6
500/600	102	180	80	90	72	6	79	6

Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G	H
20/25	(737)	(813)	(813)	(508)	(610)	(114)	(711)	(76)
35/40	(991)	(1,219)	(813)	(762)	(610)	(114)	(711)	(76)
45/55	(1,143)	(1,524)	(914)	(914)	(711)	(114)	(787)	(76)
65/75	(1,499)	(2,032)	(914)	(1,270)	(711)	(114)	(787)	(76)
85/100	(1,295)	(2,032)	(1,219)	(1,067)	(1,016)	(114)	(991)	(102)
125/150/175	(1,753)	(2,540)	(1,372)	(1,524)	(1,168)	(114)	(1,346)	(102)
200/250	(1,854)	(3,048)	(1,524)	(1,626)	(1,321)	(114)	(1,499)	(102)
275/300/325	(2,007)	(3,556)	(1,651)	(1,778)	(1,448)	(114)	(1,626)	(102)
350/400	(2,286)	(4,064)	(1,778)	(1,981)	(1,575)	(152)	(1,753)	(152)
500/600	(2,591)	(4,572)	(2,032)	(2,286)	(1,829)	(152)	(2,007)	(152)

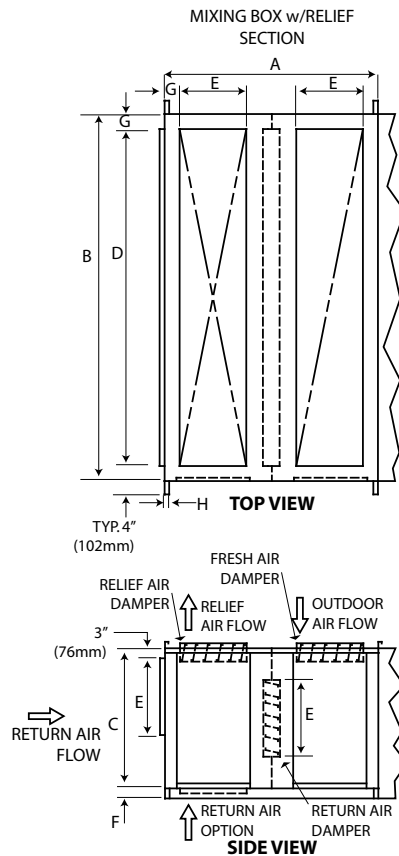
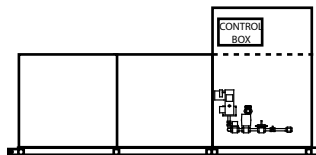
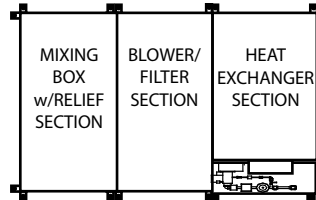
Weight - Mixing Box only (Add to base unit weight)

lbs	220	290	380	480	580	825	1100	1270	1500	1875
(kg)	(100)	(132)	(172)	(218)	(263)	(374)	(499)	(576)	(680)	(851)

HPCDH Accessories (cont'd)

Mixing Box w/Relief

±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G	H
20/25	60	62	38	53	19	3	4 1/2	1 3/8
35/40	60	78	38	69	19	3	4 1/2	1 3/8
45/55	69	90	42	81	23	3	4 1/2	1 3/8
65/75	69	110	42	101	23	3	4 1/2	1 3/8
85/100	93	110	54	101	35	4	4 1/2	1 9/16
125/150/175	105	132	60	123	41	4	4 1/2	1 9/16
200/250	117	156	66	147	47	4	4 1/2	1 9/16
275/300/325	127	176	71	167	52	4	4 1/2	1 9/16
350/400	137	196	86	184	57	6	6	2
500/600	151	216	86	204	67	6	6	2

Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G	H
20/25	(1,524)	(1,575)	(965)	(1,346)	(483)	(76)	(114)	(35)
35/40	(1,524)	(1,981)	(965)	(1,753)	(483)	(76)	(114)	(35)
45/55	(1,753)	(2,286)	(1,067)	(2,057)	(584)	(76)	(114)	(35)
65/75	(1,753)	(2,794)	(1,067)	(2,565)	(584)	(76)	(114)	(35)
85/100	(2,362)	(2,794)	(1,372)	(2,565)	(889)	(102)	(114)	(40)
125/150/175	(2,667)	(3,353)	(1,524)	(3,124)	(1,041)	(102)	(114)	(40)
200/250	(2,972)	(3,962)	(1,676)	(3,734)	(1,194)	(102)	(114)	(40)
275/300/325	(3,226)	(4,470)	(1,803)	(4,242)	(1,321)	(102)	(114)	(40)
350/400	(3,480)	(4,978)	(2,184)	(4,674)	(1,448)	(152)	(152)	(51)
500/600	(3,835)	(5,486)	(2,184)	(5,182)	(1,702)	(152)	(152)	(51)

Weight - Mixing Box only (Add to base unit weight)

lbs	390	500	505	785	880	1185	1550	1705	1940	2385
(kg)	(177)	(227)	(229)	(356)	(399)	(538)	(703)	(773)	(880)	(1082)

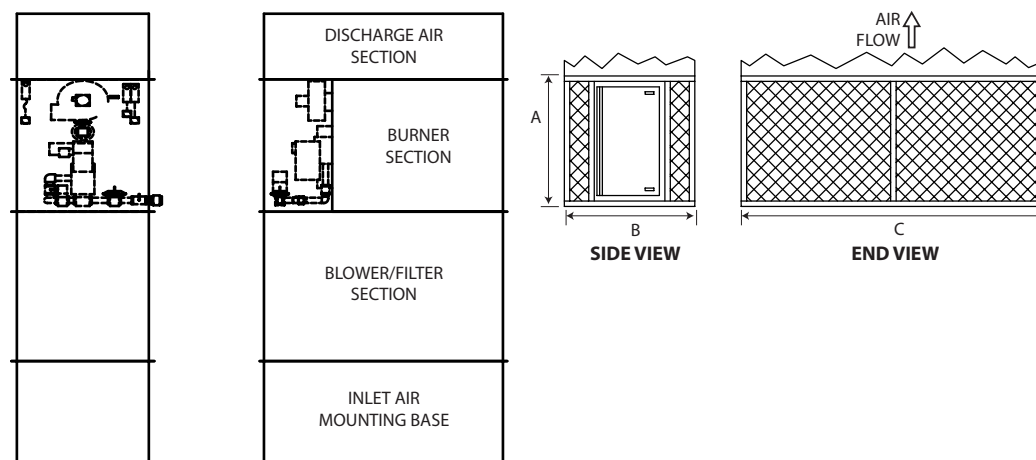
REZNOR®

DIMENSIONS (cont'd)

HPCDV Accessories ("I" Configuration) (cont'd)

Screened Mounting Base (Indoor)

±1/8" (3mm)



Dimensions ±1/8"

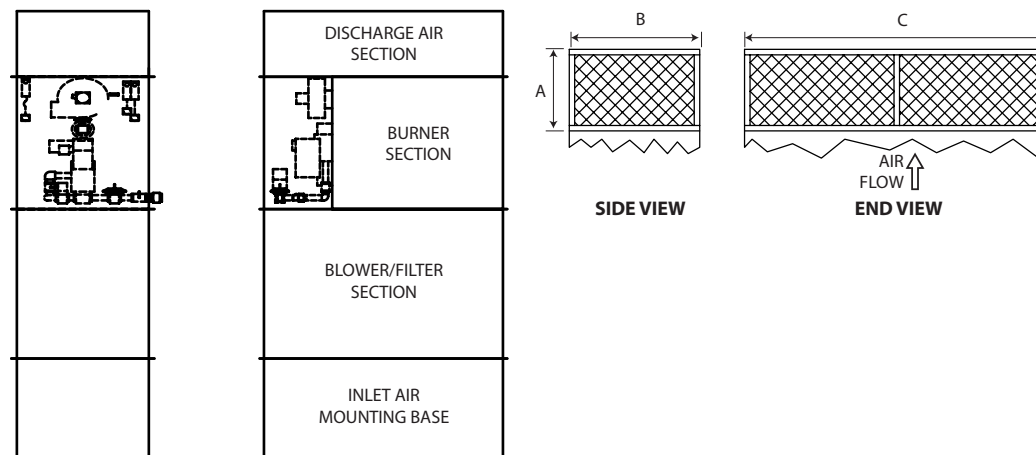
Sizes	A	B	C
20/25	24	38	62
35/40	24	38	78
45/55	30	42	90
65/75	30	42	110
85/100	36	54	110
125/150/175	36	60	132
200/250	42	66	156
275/300/325	42	71	176
350/400	48	86	196
500/600	48	86	216

Dimensions (±3mm)

Sizes	A	B	C
20/25	(610)	(965)	(1,575)
35/40	(610)	(965)	(1,981)
45/55	(762)	(1,067)	(2,286)
65/75	(762)	(1,067)	(2,794)
85/100	(914)	(1,372)	(2,794)
125/150/175	(914)	(1,524)	(3,353)
200/250	(1,067)	(1,676)	(3,962)
275/300/325	(1,067)	(1,803)	(4,470)
350/400	(1,219)	(2,184)	(4,978)
500/600	(1,219)	(2,184)	(5,486)

Screened Discharge Plenum (Indoor)

±1/8" (3mm)



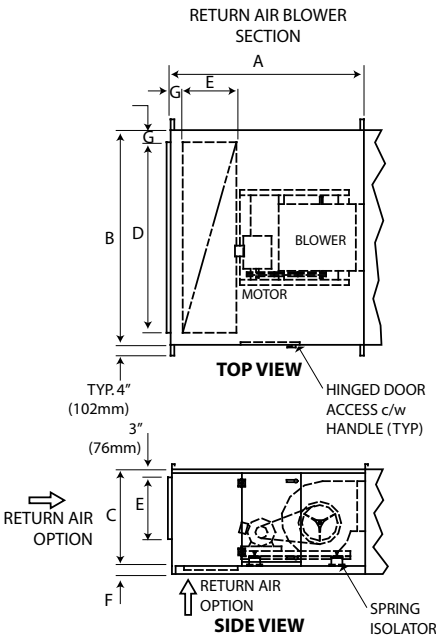
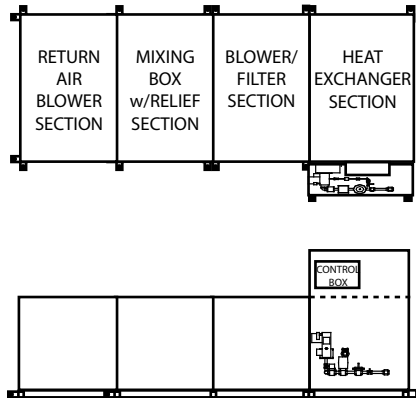
Dimensions ±1/8"

Sizes	A	B	C
20/25	24	38	62
35/40	24	38	78
45/55	30	42	90
65/75	30	42	110
85/100	36	54	110
125/150/175	36	60	132
200/250	42	66	156
275/300/325	42	71	176
350/400	48	86	196
500/600	48	86	216

Dimensions (±3mm)

Sizes	A	B	C
20/25	(610)	(965)	(1,575)
35/40	(610)	(965)	(1,981)
45/55	(762)	(1,067)	(2,286)
65/75	(762)	(1,067)	(2,794)
85/100	(914)	(1,372)	(2,794)
125/150/175	(914)	(1,524)	(3,353)
200/250	(1,067)	(1,676)	(3,962)
275/300/325	(1,067)	(1,803)	(4,470)
350/400	(1,219)	(2,184)	(4,978)
500/600	(1,219)	(2,184)	(5,486)

PCDH Accessories (cont'd)
Return Air Blower and Mixing Box w/Relief
±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G
20/25	61	32	32	23	19	3	4 1/2
35/40	68	48	32	39	19	3	4 1/2
45/55	72	60	36	51	23	3	4 1/2
65/75	75	80	36	71	23	3	4 1/2
85/100	100	80	48	71	35	4	4 1/2
125/150/175	109	100	54	91	41	4	4 1/2
200/250	117	120	60	111	47	4	4 1/2
275/300/325	122	140	65	131	52	4	4 1/2
350/400	127	160	70	148	57	6	6
500/600	137	180	80	168	67	6	6

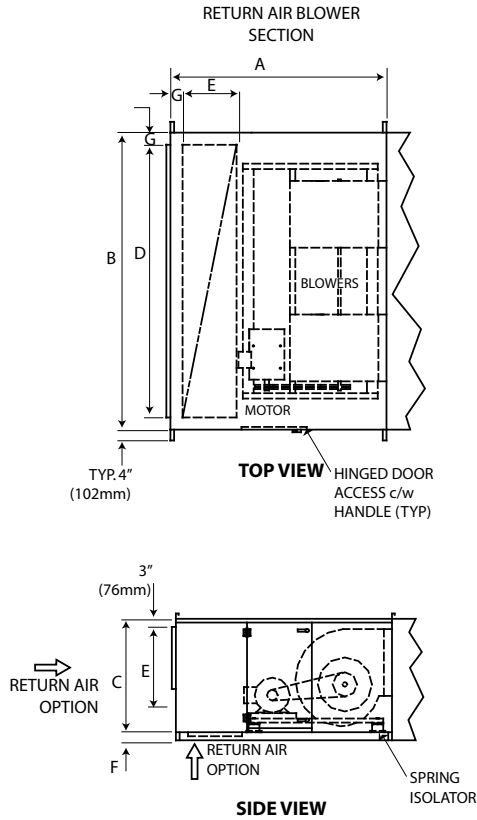
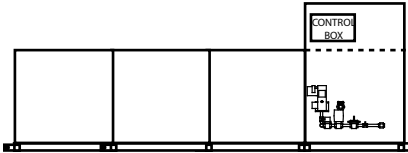
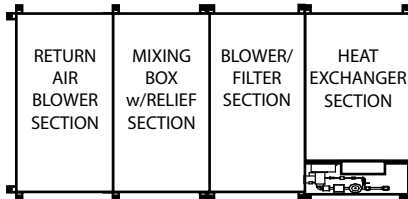
Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G
20/25	(1,549)	(813)	(813)	(584)	(483)	(76)	(114)
35/40	(1,727)	(1,219)	(813)	(991)	(483)	(76)	(114)
45/55	(1,829)	(1,524)	(914)	(1,295)	(584)	(76)	(114)
65/75	(1,905)	(2,032)	(914)	(1,803)	(584)	(76)	(114)
85/100	(2,540)	(2,032)	(1,219)	(1,803)	(889)	(102)	(114)
125/150/175	(2,769)	(2,540)	(1,372)	(2,311)	(1,041)	(102)	(114)
200/250	(2,972)	(3,048)	(1,524)	(2,819)	(1,194)	(102)	(114)
275/300/325	(3,099)	(3,556)	(1,651)	(3,327)	(1,321)	(102)	(114)
350/400	(3,226)	(4,064)	(1,778)	(3,759)	(1,448)	(152)	(152)
500/600	(3,480)	(4,572)	(2,032)	(4,267)	(1,702)	(152)	(152)

HPCDH Accessories (cont'd)

Return Air Blower and Mixing Box w/Relief

±1/8" (3mm)



Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G
20/25	61	62	38	53	19	3	4 1/2
35/40	68	78	38	69	19	3	4 1/2
45/55	72	90	42	81	23	3	4 1/2
65/75	75	110	42	101	23	3	4 1/2
85/100	100	110	54	101	35	4	4 1/2
125/150/175	109	132	60	123	41	4	4 1/2
200/250	117	156	66	147	47	4	4 1/2
275/300/325	122	176	71	167	52	4	4 1/2
350/400	127	196	86	184	57	6	6
500/600	137	216	86	204	67	6	6

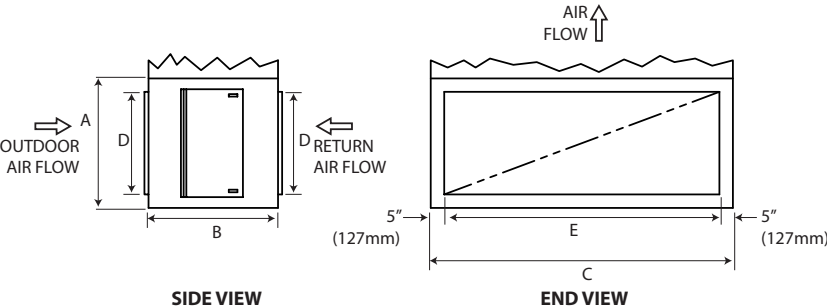
Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G
20/25	(1,549)	(1,575)	(965)	(1,346)	(483)	(76)	(114)
35/40	(1,727)	(1,981)	(965)	(1,753)	(483)	(76)	(114)
45/55	(1,829)	(2,286)	(1,067)	(2,057)	(584)	(76)	(114)
65/75	(1,905)	(2,794)	(1,067)	(2,565)	(584)	(76)	(114)
85/100	(2,540)	(2,794)	(1,372)	(2,565)	(889)	(102)	(114)
125/150/175	(2,769)	(3,353)	(1,524)	(3,124)	(1,041)	(102)	(114)
200/250	(2,972)	(3,962)	(1,676)	(3,734)	(1,194)	(102)	(114)
275/300/325	(3,099)	(4,470)	(1,803)	(4,242)	(1,321)	(102)	(114)
350/400	(3,226)	(4,978)	(2,184)	(4,674)	(1,448)	(152)	(152)
500/600	(3,480)	(5,486)	(2,184)	(5,182)	(1,702)	(152)	(152)

HPCDV Accessories (“I” Configuration) (cont'd)

Insulated Enclosed Mounting Base (Indoor/Outdoor)

±1/8” (3mm)



Dimensions ±1/8”

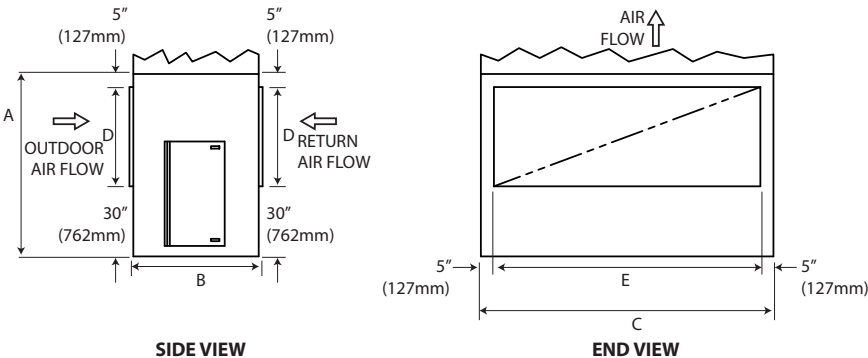
Sizes	A	B	C	D	E
20/25	30	38	62	20	52
35/40	30	38	78	20	68
45/55	36	42	90	26	80
65/75	36	42	110	26	100
85/100	42	54	110	32	100
125/150/175	48	60	132	38	122
200/250	70	66	156	60	146
275/300/325	70	71	176	60	166
350/400	80	86	196	70	186
500/600	90	86	216	80	206

Dimensions (±3mm)

Sizes	A	B	C	D	E
20/25	(762)	(965)	(1,575)	(508)	(1,321)
35/40	(762)	(965)	(1,981)	(508)	(1,727)
45/55	(914)	(1,067)	(2,286)	(660)	(2,032)
65/75	(914)	(1,067)	(2,794)	(660)	(2,540)
85/100	(1,067)	(1,372)	(2,794)	(813)	(2,540)
125/150/175	(1,219)	(1,524)	(3,353)	(965)	(3,099)
200/250	(1,778)	(1,676)	(3,962)	(1,524)	(3,708)
275/300/325	(1,778)	(1,803)	(4,470)	(1,524)	(4,216)
350/400	(2,032)	(2,184)	(4,978)	(1,778)	(4,724)
500/600	(2,286)	(2,184)	(5,486)	(2,032)	(5,232)

Tall Insulated Enclosed Mounting Base (Indoor/Outdoor)

±1/8” (3mm)



Dimensions ±1/8”

Sizes	A	B	C	D	E
20/25	55	38	62	20	52
35/40	55	38	78	20	68
45/55	61	42	90	26	80
65/75	61	42	110	26	100
85/100	67	54	110	32	100
125/150/175	73	60	132	38	122
200/250	95	66	156	60	146
275/300/325	95	71	176	60	166
350/400	105	86	196	70	186
500/600	115	86	216	80	206

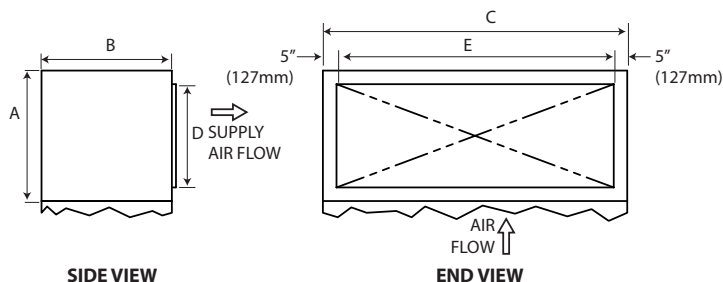
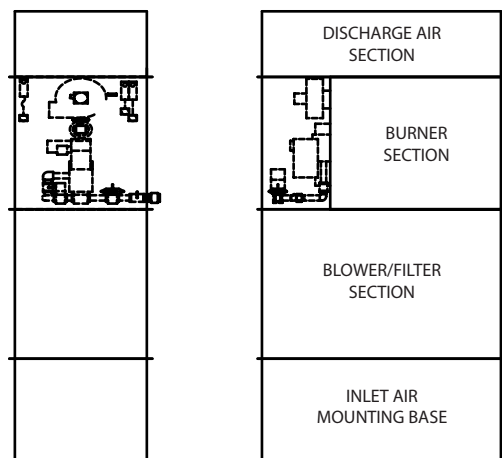
Dimensions (±3mm)

Sizes	A	B	C	D	E
20/25	(1,397)	(965)	(1,575)	(508)	(1,321)
35/40	(1,397)	(965)	(1,981)	(508)	(1,727)
45/55	(1,549)	(1,067)	(2,286)	(660)	(2,032)
65/75	(1,549)	(1,067)	(2,794)	(660)	(2,540)
85/100	(1,702)	(1,372)	(2,794)	(813)	(2,540)
125/150/175	(1,854)	(1,524)	(3,353)	(965)	(3,099)
200/250	(2,413)	(1,676)	(3,962)	(1,524)	(3,708)
275/300/325	(2,413)	(1,803)	(4,470)	(1,524)	(4,216)
350/400	(2,667)	(2,184)	(4,978)	(1,778)	(4,724)
500/600	(2,921)	(2,184)	(5,486)	(2,032)	(5,232)

HPCDV Accessories ("I" Configuration) (cont'd)

Insulated Enclosed Discharge Plenum (Indoor/Outdoor)

±1/8" (3mm)

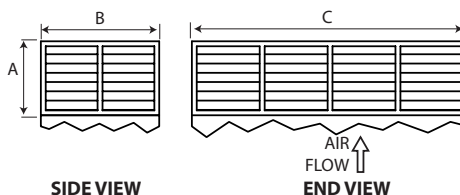


SIDE VIEW

END VIEW

4-Sided Discharge Air Grilles (Indoor)

±1/8" (3mm)



SIDE VIEW

END VIEW

Dimensions ±1/8"

Sizes	A	B	C	D	E
20/25	30	38	62	20	52
35/40	30	38	78	20	68
45/55	36	42	90	26	80
65/75	36	42	110	26	100
85/100	42	54	110	32	100
125/150/175	48	60	132	38	122
200/250	70	66	156	60	146
275/300/325	70	71	176	60	166
350/400	80	86	196	70	186
500/600	90	86	216	80	206

Dimensions (±3mm)

Sizes	A	B	C	D	E
20/25	(762)	(965)	(1,575)	(508)	(1,321)
35/40	(762)	(965)	(1,981)	(508)	(1,727)
45/55	(914)	(1,067)	(2,286)	(660)	(2,032)
65/75	(914)	(1,067)	(2,794)	(660)	(2,540)
85/100	(1,067)	(1,372)	(2,794)	(813)	(2,540)
125/150/175	(1,219)	(1,524)	(3,353)	(965)	(3,099)
200/250	(1,778)	(1,676)	(3,962)	(1,524)	(3,708)
275/300/325	(1,778)	(1,803)	(4,470)	(1,524)	(4,216)
350/400	(2,032)	(2,184)	(4,978)	(1,778)	(4,724)
500/600	(2,286)	(2,184)	(5,486)	(2,032)	(5,232)

Dimensions ±1/8"

Sizes	A	B	C
20/25	24	38	62
35/40	24	38	78
45/55	30	42	90
65/75	30	42	110
85/100	36	54	110
125/150/175	36	60	132
200/250	42	66	156
275/300/325	42	71	176
350/400	48	86	196
500/600	48	86	216

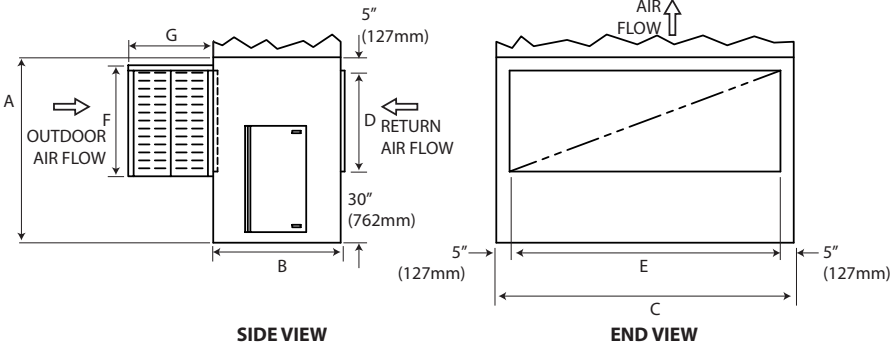
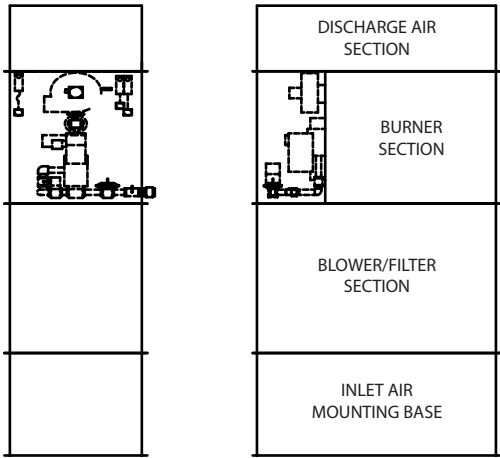
Dimensions (±3mm)

Sizes	A	B	C
20/25	(610)	(965)	(1,575)
35/40	(610)	(965)	(1,981)
45/55	(762)	(1,067)	(2,286)
65/75	(762)	(1,067)	(2,794)
85/100	(914)	(1,372)	(2,794)
125/150/175	(914)	(1,524)	(3,353)
200/250	(1,067)	(1,676)	(3,962)
275/300/325	(1,067)	(1,803)	(4,470)
350/400	(1,219)	(2,184)	(4,978)
500/600	(1,219)	(2,184)	(5,486)

HPCDV Accessories ("I" Configuration) (cont'd)

Tall Insulated Enclosed Mounting Base with Louvered Outdoor Air Intake Hood (Outdoor)

±1/8" (3mm)

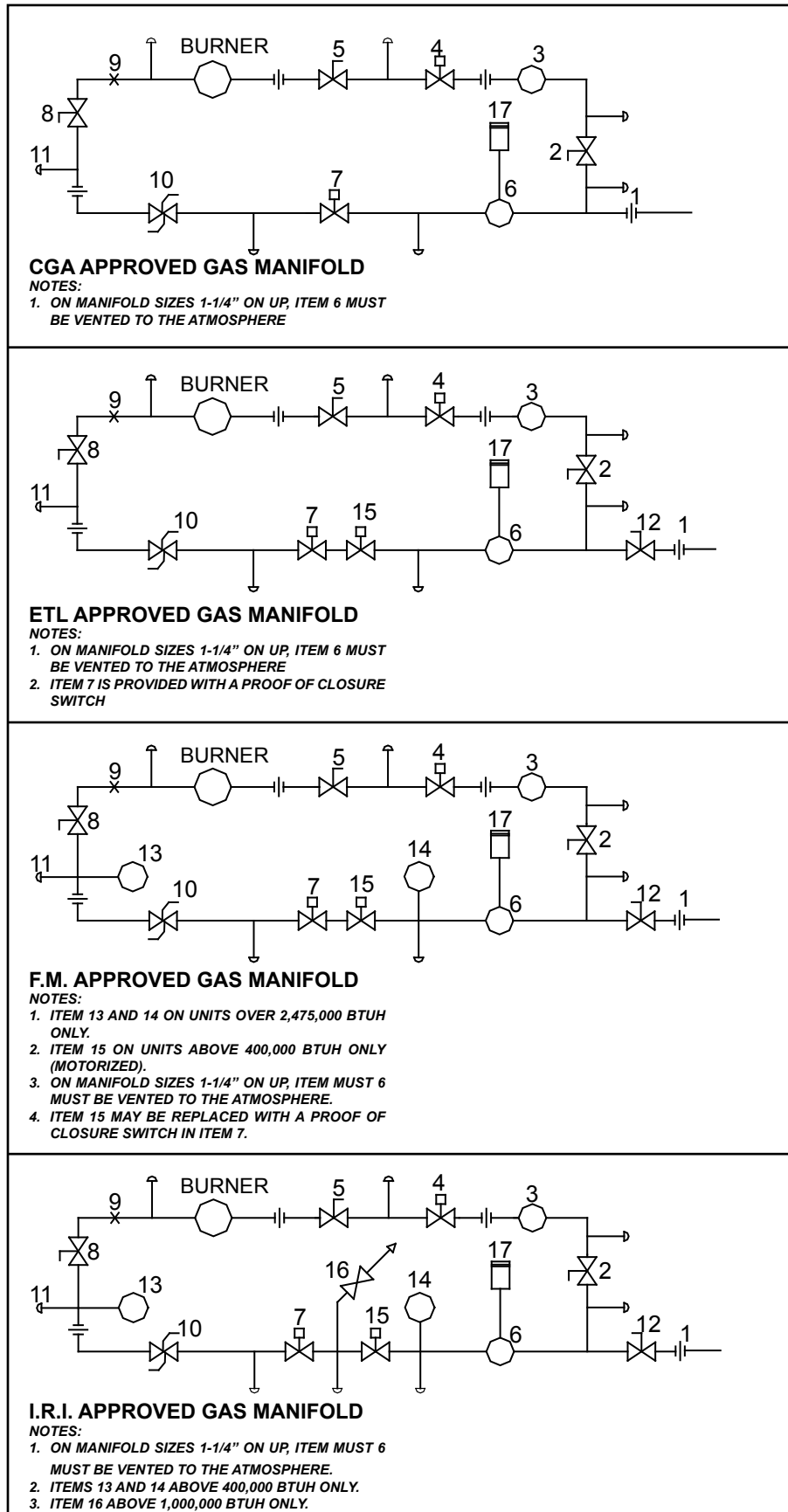


Dimensions ±1/8"

Sizes	A	B	C	D	E	F	G
20/25	55	38	62	20	52	30	18
35/40	55	38	78	20	68	30	32
45/55	61	42	90	26	80	36	32
65/75	61	42	110	26	100	36	46
85/100	67	54	110	32	100	36	46
125/150/175	73	60	132	38	122	48	60
200/250	95	66	156	60	146	75	75
275/300/325	95	71	176	60	166	75	75
350/400	105	86	196	70	186	82	75
500/600	115	86	216	80	206	92	75

Dimensions (±3mm)

Sizes	A	B	C	D	E	F	G
20/25	(1,397)	(965)	(1,575)	(508)	(1,321)	(762)	(457)
35/40	(1,397)	(965)	(1,981)	(508)	(1,727)	(762)	(813)
45/55	(1,549)	(1,067)	(2,286)	(660)	(2,032)	(914)	(813)
65/75	(1,549)	(1,067)	(2,794)	(660)	(2,540)	(914)	(1,168)
85/100	(1,702)	(1,372)	(2,794)	(813)	(2,540)	(914)	(1,168)
125/150/175	(1,854)	(1,524)	(3,353)	(965)	(3,099)	(1,219)	(1,524)
200/250	(2,413)	(1,676)	(3,962)	(1,524)	(3,708)	(1,905)	(1,905)
275/300/325	(2,413)	(1,803)	(4,470)	(1,524)	(4,216)	(1,905)	(1,905)
350/400	(2,667)	(2,184)	(4,978)	(1,778)	(4,724)	(2,083)	(1,905)
500/600	(2,921)	(2,184)	(5,486)	(2,032)	(5,232)	(2,337)	(1,905)



LEGEND

- Union Connection
- Pilot Manual Shut-off Valve
- Pilot Pressure Regulator
- Pilot Automatic Safety Shut-off Valve
- Pilot Manual Firing Valve
- Main Burner Gas Pressure Regulator
- Main Burner Auto Safety Shu-off Valve
- Main Burner Test Firing Valve
- Main Burner Orifice
- Modulating Gas Valve
- 1/8" Test Port
- Main Manual Valve
- High Gas Pressure Switch
- Low Gas Pressure Switch
- Auxiliary Safety Shut-off Valve
- Normally Open Vent Valve
- Vent Limiter

MOTOR HP	RUNNING MOTOR AMPERAGE VOLTAGE/PHASE/CYCLES						
	115/1/60	230/1/60	208/3/60	230/3/60	416/3/60	460/3/60	575/3/60
1/4	5.6	2.8	N/A	N/A	N/A	N/A	N/A
1/3	5.8	2.9	N/A	N/A	N/A	N/A	N/A
1/2	8.4	4.2	2.2	2	1.1	1	0.8
3/4	12	6	3	2.5	1.5	1.38	1.1
1	16	8	3.1	3.25	1.8	1.63	1.3
1 1/2	20	10	5.25	4.75	2.6	2.38	1.9
2	24	12	6.6	6	3.3	3	2.4
3	34	17	9.6	8.75	4.8	4.38	3.5
5	56	28	15.1	13.75	7.6	6.88	5.5
7 1/2	80	40	24	21.75	12	10.88	8.7
10	100	50	28.9	26.25	14.5	13.13	10.5
15	N/A	N/A	44.2	40	22.1	20	16
20	N/A	N/A	58	52.5	29	26.25	21
25	N/A	N/A	74.5	67.5	37.3	33.75	27
30	N/A	N/A	85.6	77.5	42.8	38.75	31
40	N/A	N/A	115.9	105	58	52.5	42
50	N/A	N/A	146.3	132.5	73	66.25	53
60	N/A	N/A	165.6	150	82.8	75	60
75	N/A	N/A	204.4	185	102.1	92.5	74
100	N/A	N/A	270.5	245	135.2	122.5	98
125	N/A	N/A	339.5	307	169.7	153.75	123

NOTES:

- To Calculate the Full Load Amps (FLA) = 1.25 x Largest Motor Draw + Additional Motor Draw at Face Value + Control Amperage (1.00 Amps Generally Cover 90% of MUA Applications).
- If You Require Specific Control Amperages Please Contact the Factory Representative.

Type and Description

Furnish a Reznor Model (H)PCD(H)(V) indirect fired self-contained make-up air unit in accordance with the following specifications. The unit shall be ETL certified. Unit shall be designed for (indoor/outdoor) use.

The heater shall be designed to ensure a minimum efficiency of 80% at full firing rate. The heat exchanger and blower sections shall be constructed so they can easily be separated and reattached in the field if necessary. The unit shall be equipped to operate from a single point power connection. The heater shall be flame tested before shipment and a detailed flame test report shall be kept on file by the manufacturer. Factory testing shall be confirmed with a combustion analyzer and flow meter. The heater shall be shipped completely factory assembled and wired including all pre-piped manifold components and fuses, ready for immediate power and fuel connections.

Casing

The unit exterior casing shall be heavy gauge galvaneal. (Unit roofs shall be sloped for water drain off and feature standing seam construction.) The entire unit casing shall be insulated with (1" thick 1.5 lb./1" thick 2 lb./2" thick 3 lb.) fiberglass insulation with hard neoprene backing in a sandwich wall fashion. The unit exterior shall be finished with (gray enamel/industrial catalyzed epoxy) finish. An integral welded iron channel frame shall support the unit casing. Formed sheet metal bases are unacceptable. The structural iron frame shall be primed and finished with industrial catalyzed epoxy paint. A 22 gauge (solid/perforated) liner shall be included.

Blower/Motor Section

The fan section and motor assembly shall be constructed in accordance with the requirements of the Air Moving and Conditioning Association (AMCA). The assembly shall be designed to house the fan(s), bearings, motor, and v-belts which shall be selected for at least 50% above the rated motor capacity. The fan(s) and motor shall be mounted on a welded unitary base made of angle iron frame. The frame shall be primed and finished with industrial catalyzed epoxy paint. The unitary base shall be provided with (1" deflection spring/2" deflection spring/1" external spring/2" external spring/rubber-in-shear/1" external spring hanger/2" external spring hanger/pad-type seismic/hanger type seismic) vibration isolation. The blower section shall have a hinged access door to allow easy maintenance of filters and belts. The NEMA T-Frame (EPACT ODP/premium efficiency ODP/TEFC) motor shall be mounted on an adjustable base located within the fan section. The blower wheel shall be statically and dynamically balanced, and mounted on a turned, ground and polished shaft with rigid bearing supports. The shaft shall be designed with a maximum operating speed not exceeding 75% of the first critical speed. The bearings shall be ball bearing type L20 minimum life of 100,000 hours.

Heat Exchanger

The heat exchanger shall be of four pass design with a primary combustion chamber and multi-tube secondary. Internal turbulators or other flue restrictor to boost efficiency are unacceptable. The entire primary heat transfer surface shall be constructed of Type (409/304) Series stainless steel, and shall be cooled in its entirety by the air to be heated. The Secondary heat transfer surface shall also be constructed from Type (409/304) Series stainless steel. The stainless steel tubes shall be continuously welded into the secondary front and rear header tube sheets to ensure an airtight seal. Mechanically swedging the tubes are unacceptable. All heat transfer surfaces, including headers and the front collector box, shall be inside the casing and in the airstream. The construction of the heat exchanger shall permit free, unrestricted lateral, vertical, and peripheral expansion during the heating and cooling cycle without damage or strain to any part. The heat exchanger shall be designed to prevent contamination of heated air with the products of combustion. A spring loaded pressure relief door with glass view port shall be provided. The entire heater casing shall be lined with a 22 gauge (solid/perforated) liner.

Burner

The heater shall have of a power type 409 stainless steel burner, with integral combustion air blower and motor; combustion air proving switch, removable pilot assembly and positive pilot combustion air supply. The combustion air damper shall be interlocked with the main gas valve to insure a proper air/gas mixture. (A solid state programmable safeguard relay with UV scanner and purge card shall continuously monitor main and pilot flame.) The main and pilot valve train to the burner shall be completely factory pre-piped. This assembly shall be wired and include the following minimum components; main and automatic shut off valves and adequate unions and test ports for service. A 6,000 volt transformer shall accomplish ignition of pilot flame. The unit shall be suitable for (natural gas and designed and certified by ETL to provide full gas modulation/propane/fuel oil). (Depending on the burner selection, turndown from 100% to 7% of output are achievable.) Products of combustion shall be vented through a (gravity/power) vent exhaust system.

Electrical Control Equipment

Electrical assembly and components shall be in strict accordance with the latest provisions and requirements of the Nation Electric Code. Unit shall be configured for (208/230/460/575) Volt, (1/3) Phase, 60 Hz supply voltage. Control cabinet shall be designed and constructed to ETL specifications. A dead front safety disconnect switch shall be mounted on the control enclosure door. Electrical cabinets shall be NEMA 12. (The cabinets shall be located in a weather proof cabinet. Provisions for service padlocking shall be provided.) The following items shall be located within the electrical enclosure: (fuses, starters, control relays, timing and holding relays, resistors and numbered terminal strips). All components shall be labeled and cross referenced to control and field wiring diagrams. The control circuit shall be 110V, single phase. Wiring shall be neatly run in wiring duct. Low and/or line voltage thermostats shall be furnished shipped loose for installation by others. (Unit shall be equipped with automatic low limit freeze protection with bypass timer.) (Unit will feature a convenience outlet with separate disconnect, circuit breaker protection and supply transformer.) (Temperature control shall consist of a solid state PID loop with adjustable setpoints.) (A discharge temperature sensor shall be wired in series-parallel to room sensor.) (The temperature control system may be controlled by DDC at any time during operation. DDC system may take control of blower/burner/dampers and modulating gas valve.) Unit shall be configured for (left/right) side controls.

Remote Control Panels

(Remote NEMA 12 locking control panels shall be equipped with summer or winter switch and blower on, burner on, flame failure and loaded filter lights. A remote adjustment potentiometer shall control damper positioning. A LCD display shall provide system temperature and setpoints.)

Mix Box and Filter Section

(A mix box with fresh air and return air dampers [and relief dampers] shall be provided. [The dampers are to be aluminum airfoil low leak type with seals.] The dampers are to be inset into 22 gauge steel mix box liners. [The dampers shall be equipped with modulation actuators.]

The blower section shall include a motor operated outside air intake sized for 100% outside air. The filters shall be 2" pleated throwaway type with minimum of 85% arrestance and 30% dust. Filter access shall be through a latched and gasketed access doors located on both sides of the unit.

Additional Modules

Other field installed modules/sections to include: (service platform/[3'/5'] mounting stand/louvered inlet plenum/cooling coil/evaporative cooling/steam or hot water coil/return air blower).

(Screened plenum/4-sided louvered plenum/trapezoidal 3 facet cowl/[45°/90° louvered nozzles) shall be shipped separately for field attachment for discharge air distribution.

REZNOR® PRODUCT LIMITED WARRANTY

Reznor, LLC warrants to the original owner-user that this Reznor product will be free from defects in material or workmanship. This warranty is limited to twelve (12) months from the date of original installation, whether or not actual use begins on that date, or eighteen (18) months from date of shipment by Reznor, LLC, whichever occurs first.

LIMITATIONS AND EXCLUSIONS

Reznor, LLC obligations under this warranty and the sole remedy for its breach are limited to repair, at its manufacturing facility, of any part or parts of its Reznor products which prove to be defective; or, in its sole discretion, replacement of such products. All returns of defective parts or products must include the product model number and serial number, and must be made through an authorized Reznor distributor or arranged through Reznor Customer Service. Authorized returns must be shipped prepaid. Repaired or replacement parts will be shipped by Reznor, LLC F.O.B. shipping point.

1. The warranty provided herein does not cover charges for labor or other costs incurred in the troubleshooting, repair, removal, installation, service or handling of parts or complete products.
2. All claims under the warranty provided herein must be made within ninety (90) days from the date of discovery of the defect. Failure to notify Reznor, LLC of a warranted defect within ninety (90) days of its discovery voids Reznor, LLC obligations hereunder.
3. The warranty provided herein shall be void and of no effect in the event that (a) the product has been operated outside its designed output capacity (heating, cooling, airflow); (b) the product has been subjected to misuse, neglect, accident, improper or inadequate maintenance, corrosive environments, environments containing airborne contaminants (silicone, aluminum oxide, etc.), or excessive thermal shock; (c) unauthorized modifications are made to the product; (d) the product is not installed or operated in compliance with the manufacturer's printed instructions; (e) the product is not installed and operated in compliance with applicable building, mechanical, plumbing and electrical codes; or (f) the serial number of the product has been altered, defaced or removed (g) installation and start-up procedures are not documented on the manufacturer's start-up form at the time of installation.
4. The warranty provided herein is for repair or replacement only. Reznor, LLC shall not be liable for any loss, cost, damage, or expense of any kind arising out of a breach of the warranty. Further, Reznor, LLC shall not be liable for any incidental, consequential, exemplary, special, or punitive damages, nor for any loss of revenue, profit or use, arising out of a breach of this warranty or in connection with the sale, maintenance, use, operation or repair of any Reznor product. In no event will Reznor, LLC be liable for any amount greater than the purchase price of a defective product. The disclaimers of liability included in this paragraph 4 shall remain in effect and shall continue to be enforceable in the event that any remedy herein shall fail of its essential purpose.
5. THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY FOR REZNOR PRODUCTS, AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES. REZNOR, LLC SPECIFICALLY DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. No person or entity is authorized to bind Reznor, LLC to any other warranty, obligation or liability for any Reznor product. Installation, operation or use of the Reznor product for which this warranty is issued shall constitute acceptance of the terms hereof.

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