



# High Static Multi-Room Ducted Systems

## Submittal Data: DUCT24HP230V1BD 24,000 BTU/H High Static Ducted

Job Name Location Date

Purchaser Engineer

Submitted To For  Reference  Approval  Construction

Unit Designation Schedule No.

- GENERAL FEATURES**
- Quiet Operation -Multi-Speed Fan
  - High Static Pressure Capability -Adjustable
  - Slim Line Construction 11-13/16" high
  - Internal Condensate Drain Pump
  - Flexible Return Air From Bottom Or Rear
  - XK76 Wired Controller
  - Wireless Remote Controller YB1FA
  - Sentry Condensate Overflow Protection
  - Outside Air Capability
  - Limited 5 yr. Parts Warranty (Residential Only)



### System Ratings

<b>Cooling*</b>	
Rated Capacity	24,000 BTU/H
<b>Heating*</b>	
Rated Capacity	27,000 BTU/H
<b>Sound Pressure Level (Indoor)</b>	
Cooling	42/36/32/28 dB(A)
Heating	42/36/32/28 dB(A)
<b>Air Flow (4 Speed)</b>	
Indoor Fan CFM	735/559/453/406 CFM
<b>Ext Static Pressure (max/std)</b>	.8/.36 InWc
* Capacity based on diversity of all connected units and the OD Unit	

### Units Specification & Data

<b>Dehumidifying Volume Pint/hr</b>	5.28
<b>Wired Controller</b>	XK76
<b>Evaporator Coil</b>	
CopperTube-Aluminum Fin	
Protection - Acrylic Resin	Blue
<b>Condensate Drain Lift (Height)</b>	18-in 457-mm
<b>Drain Size (OD)</b>	1.0-in 25-mm
<b>Air Filter</b>	Polypropylene
<b>Net Weight</b>	93-lbs
<b>Gross Weight</b>	107-lbs

### Electrical Ratings

<b>Fan Motor</b>	
Output Power	200 W
FLA	0.7 A
<b>Power Supply</b>	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
MCA	5 A
Interconnecting Cable Wire Size	14-4 AWG

### Refrigerant Piping Data

<b>Refrigerant Type</b>	R410A
<b>Gas Pipe Size (OD)</b>	5/8-in
<b>Liquid Pipe Size (OD)</b>	3/8-in
<b>Connection Method</b>	Flared
* Test conditions are based on AHRI 210/240.	
**Sound Power ratings are per AHRI 270 and AHRI 350	



<b>SYSTEM FEATURES</b>	
Selectible External Satic Pressure	8 Selections
Multi Fan Speeds	4 Speeds
Indoor Fan Type	Centrifugal
Indoor Unit Display	NO
Wired Controller Interface	YES
Auxiliary Electrical Heater	NO
Ventilation (Outdoor Air)	YES
Condensate Pump	YES
Overflow Cut-off Switch	YES
Electronic Expansion Valve	In Outdoor Unit
Coil Construction	Copper Tube-Aluminum Fin
Indoor Fin Coating (Blue)	Acrylic Resin/Anti-Corrosion

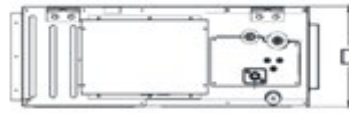
<b>WIRED PROGRAMMABLE CONTROLLER (XK76) &amp; REMOTE CONTROLLER FUNCTIONS</b>	
Auto Mode	YES
Auto Fan	YES
Turbo Cooling	YES
Auto Swing (Horizontal Auto Swing)	NO
Auto Swing (Vertical Auto Swing)	NO
Clock on Remote Controller	YES
Dry Mode	YES
Dry Anti-Mildew (X-Fan) Mode	YES
Energy Saving Mode	YES
Dirty Filter Alert	NO
I Feel Function	YES
Lock on Remote Controller	YES
Quiet Mode	YES
Room Temperature Display	NO
Normal Sleep Mode	YES
Timer Mode	YES
LCD Back Light on Remote Controller	YES
Turbo Mode	YES
Display On/Off Control	YES
Freeze Guard Mode (46°F/8°C)	YES
Display On/Off Control	YES

## DIMENSIONAL SPECIFICATIONS

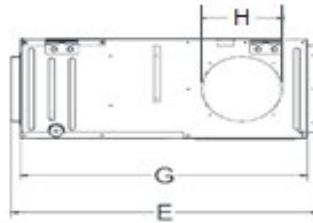
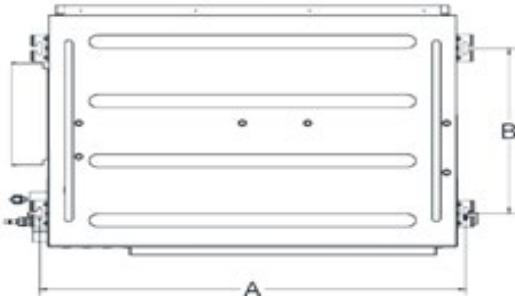
## DUCT24HP230V1BD

### 24,000 BTUH MODEL

Model # DUCT24HP230V1BD 24,000 BTUH 230V



Note: Size refrigerant lines based on evaporator port sizes.



H = Fresh Air Knockout

Dimensions

	A	B	C	D	E	F	G	H
(mm)	1040	500	1130	300	754	1000	700	196
(inches)	40-15/16	19-11/16	44-1/2	11-13/16	29-11/16	39-3/8	27-9/16	7-23/32

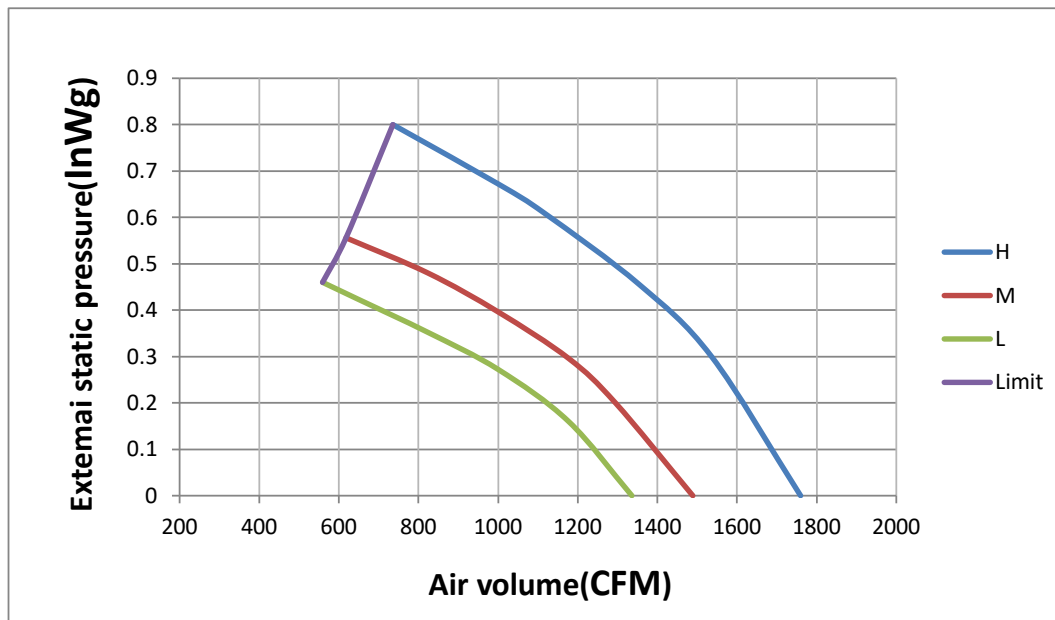
Weight (Net/Gross)

93/107 lbs

Supply & Return Air Opening						
	Size of Supply Air Outlet			Size of Return Air Opening		
	A	B	C	D	E	F
mm	195	751	25	264	960	29
in	7-5/8	29-9/16	1	10-3/8	37-3/4	1-1/8

## INDOOR FAN PERFORMANCE DATA

Wc = inches of water guage



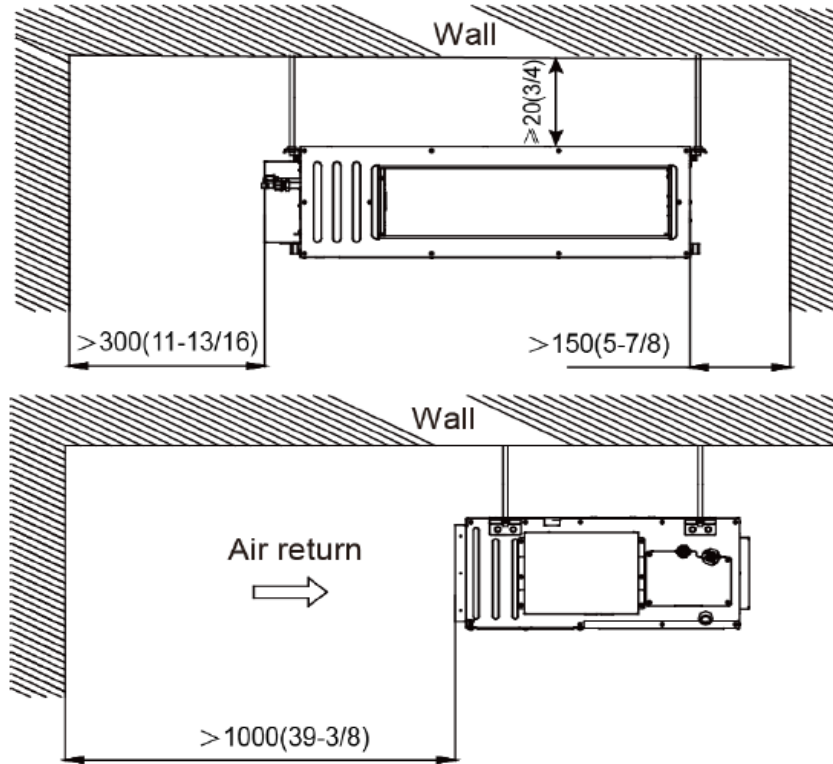
Notes:

1. Recommended Interconnecting Cable Type Stranded Bare Copper Conductors THHN 600V Unshielded Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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MINIMUM SPACING REQUIREMENTS

Units: mm(inch)



RETURN AIR CONFIGURATIONS

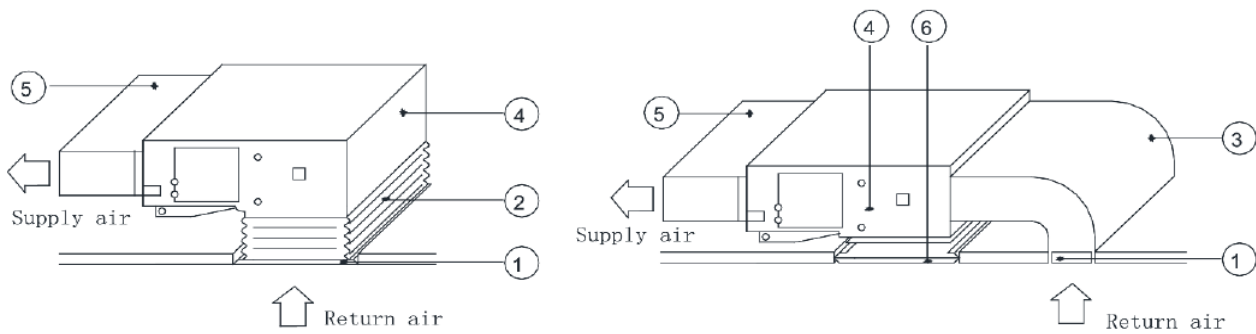


Fig 4.4.7

Table 5 Installation of the return air duct

No.	Name	No.	Name
1	Return Air Inlet (with filter)	4	Indoor unit
2	Canvas Duct	5	Supply Air Duct
3	Return Air Duct	6	Grille