


## SUBMITTAL DATA

DUC09HP230V1R32AH  
9000 BTU/H Slim Duct (HS) Heat Pump System

Job Name	Location	Date
Purchaser	Engineer	
Submitted to	For	
Unit Designation	Schedule No.	

		
YBE1FB5F	DUC09HP230V1R32AH	XE72-44/E

### GENERAL FEATURES

- AHRI Certificate: 215413817 (Vireo R32), 215413812 (Envo R32), 215415547 (Sapphire R32)
- High Efficiency DC Inverter Technology
- Compact and Quiet Design
- Slim Line Construction
- High Static E.S.P Capability -Adjustible
- Internal Condensate Drain Pump
- Flexible Return Air From Bottom Or Rear
- Wireless Remote with LCD Display Included
- XE72-44/E Wi-Fi Wired Controller Included
- Low Ambient Cooling and Heating
- Coil (Indoor and Outdoor) Copper Tube / Aluminum Fin
- Blue Colored Fin - 500 Hrs Salt Spray Tested
- New R32 Refrigerant with Refrigerant Sensor

## SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

INDOOR MODEL		DUC09HP230V1R32AH			
System Type		HEAT PUMP			
Outdoor Model		VIR09HP230V1R32AO	ENV09HP230V1R32AO	SAP09HP230V1R32AO	
SYSTEM PERFORMANCE					
Cooling	Min - Max	Btu/h	900 - 14,100	900 - 14,100	900 - 14,100
	Capacity @95°F	Btu/h	9,100	9,100	9,100
Heating	Min - Max	Btu/h	900 - 15,500	900 - 15,500	900 - 15,500
	Capacity @47°F	Btu/h	10,500	10,500	10,500
	Capacity @17°F	Btu/h	6,600	6,600	6,600
	Capacity Max @5°F	Btu/h	9,500	9,500	9,200
SEER2			22.0	22.0	22.3
EER2			14.20	14.2	14.3
HSPF2			9.2	9.2	9.5
COP @5°F			2.15	2.15	1.80
Cooling Temperature Range		°F		-20 - 122	
Heating Temperature Range		°F		-22 - 86	
Refrigerant Type				R32	
INDOOR UNIT		DUCT09HP230V1BD			
Air flow (Min-Max)		CFM	188 - 324		
External Static Pressure (Max)		In W.c.	0.6		
Sound Pressure Level (Min - Max)		dB(A)	25 - 38		
Dehumidification		pt/hr	1.69		
External Dimensions (L x D x H)		in	32-43/64 x 29-11/16 x 11-13/16		
Package Dimension (L x W x H)		in	35-5/16 x 31-13/16 x 14-11/16		
Net Weight		lbs	70.6		
Gross Weight		lbs	83.8		
OUTDOOR UNIT		VIR09HP230V1R32AO	ENV09HP230V1R32AO	SAP09HP230V1R32AO	
Sound Pressure Level		dB(A)	52	52	56
External Dimensions (L x D x H)		in	31-37/64 x 13-25/32 x 21-27/32	31 37/64 x 13 25/32 x 21 27/32	34-3/8 x 14-51/64 x 21-27/32
Package Dimension (L x W x H)		in	34-21/64 x 15-43/64 x 24-13/32	34 21/64 x 15 43/64 x 24 13/32	37-7/16 x 16-31/32 x 24-13/32
Net Weight		lbs	70.6	70.6	78.3
Gross Weight		lbs	76.1	76.1	84.9
REFRIGERANT PIPING					
Refrigerant Charge - R410A		oz	30	30	35.3
Additional Charge		oz/ft	0.2	0.2	0.2
Line Set Sized by Indoor Unit (Liquid - Gas)		in		1/4 - 3/8	
Line Set Size (Liquid - Gas) - Flared Connections		in	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2
Pre-Charge Length		ft		25	
Pipe Length (Min - Max)		ft	10 - 66	10 - 66	10 - 131
Max. Pipe Elevation		ft	40	40	82
ELECTRICAL					
Power Supply		208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)			
Voltage Range (Min - Max)		VAC	187 - 253		
Rated Current - Cooling		A	4.73	4.73	5.9
Rated Current - Heating		A	6	6	7.6
MCA		A	10	10	11
MOCP		A	15	15	15
Suggested Breaker Size		A	10	10	15
Main Power Wire Size		AWG	Per Local Code		
Interconnecting Wire Size		AWG	14 / 4		

## FEATURES & FUNCTIONS SUMMARY

### SYSTEM FEATURES

Inverter Type	G20 with Field Oriented control (FOC)
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type - Inverter	High Efficiency Rotary
Basepan With Electric Heater	Yes
Indoor & Outdoor Fin Coating (Blue Fin)	Yes
Intelligent Defrosting	Yes
Intelligent Preheating	Yes
Low Voltage Startup	Yes
Memory/Power Failure Recovery	Yes
Self Diagnosis	Yes
Wired Controller Interface	Yes
WiFi Included	No
Indoor Fan Type	Centrifugal
Multi Fan Speeds	4 Speeds
Indoor Unit Display	Yes
Auxiliary Electrical Heater	No

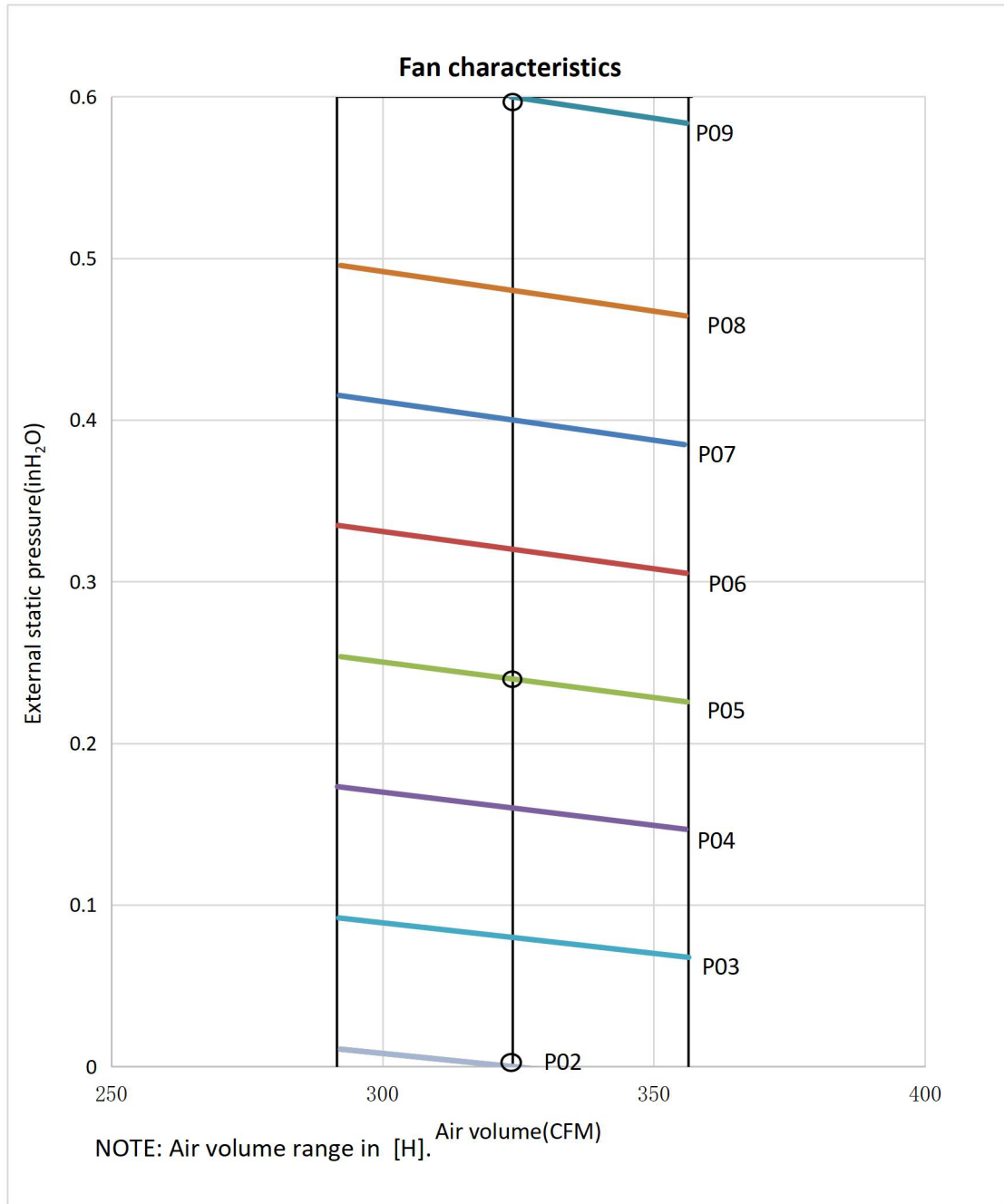
### REMOTE CONTROLLER FUNCTIONS

Auto Mode	Yes
Auto Fan	Yes
Auto Swing (Horizontal Auto Swing)	No
Auto Swing - 180° (Vertical Auto Swing)	Yes
Clock	Yes
Dry Mode	Yes
Dry Anti-Mildew (X-Fan) Mode	Yes
Energy Saving Mode	Yes
Dirty Filter Alert	No
Fan Speed Control (7 Speeds)	Yes
I Feel Function	Yes
Privacy Lock	Yes
Quiet Mode	Yes
Room Temperature Display	No
Sleep Mode	Yes
3 Sleep Mode Options	Yes
Timer Mode	Yes
Turbo Mode	Yes
Display On/Off Control	Yes
Freeze Guard Mode	Yes
Power Failure Mode	Yes

### NOTE:

Please check the Multi-zone submittals for Ducted or Mixed Performance table.

## FAN PERFORMANCE



**NOTE:**

The static pressure is adjusted using the wired controller. Refer to the wired controller instruction manual for more information.

## DIMENSIONS

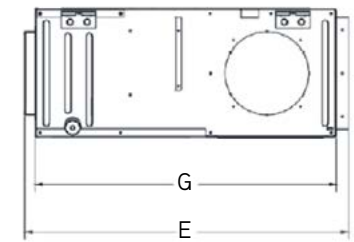
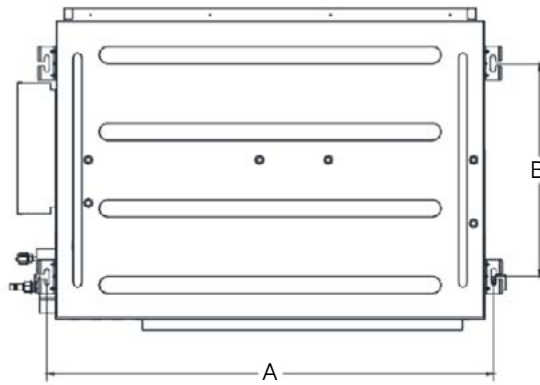
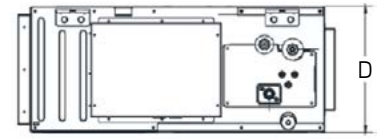
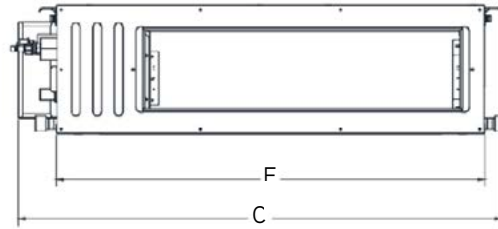
### INDOOR UNIT

Unit: inch

DUC09HP230V1R32AH

#### DIMENSIONS

A	29 9/64
B	19 11/16
C	32 43/64
D	11 13/16
E	29 11/16
F	27 9/16
G	27 9/16



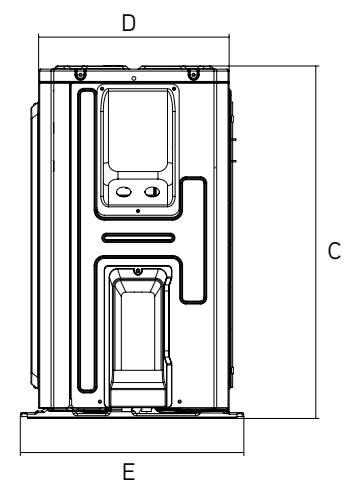
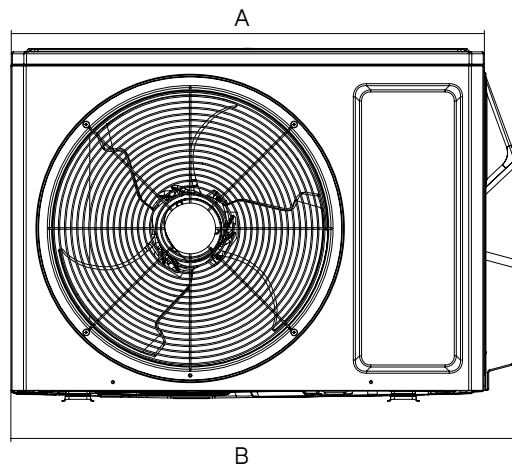
### OUTDOOR UNIT

Unit: inch

VIR09HP230V1R32AO

#### DIMENSIONS

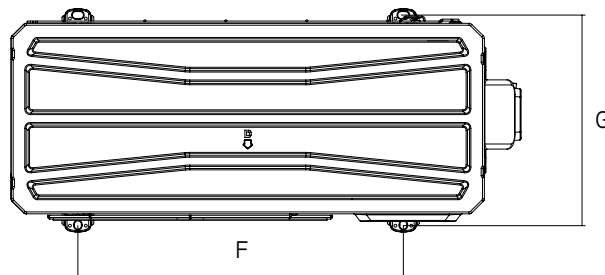
A	29 21/64
B	31 37/64
C	21 27/32
D	11 13/16
E	13 25/32
F	20 5/32
G	13 5/64



ENV09HP230V1R32AO

#### DIMENSIONS

A	29 21/64
B	31 37/64
C	21 27/32
D	11 13/16
E	13 25/32
F	20 5/32
G	13 5/64



SAP09HP230V1R32AO

#### DIMENSIONS

A	31 11/16
B	34 3/8
C	21 27/32
D	13 1/64
E	14 51/64
F	20 25/32
G	13 21/32

## SUPPLY AND RETURN AIR OPENING DIMENSIONS

### SUPPLY AIR OUTLET

Unit: inch

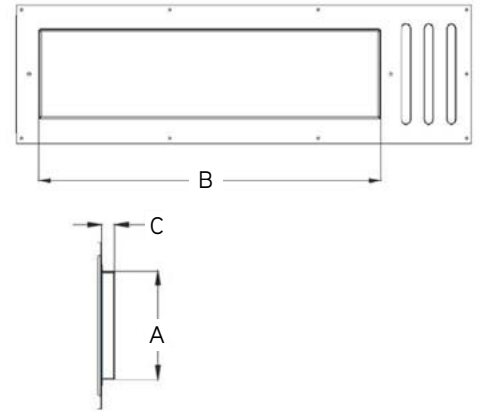
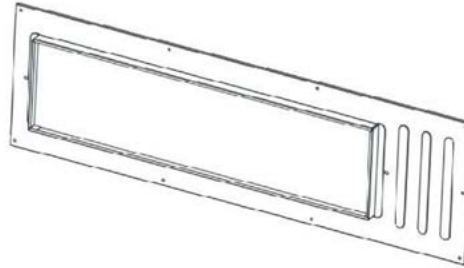
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#### DIMENSIONS

A 7-5/8

B 17-3/4

C 1



### RETURN AIR INLET

Unit: inch

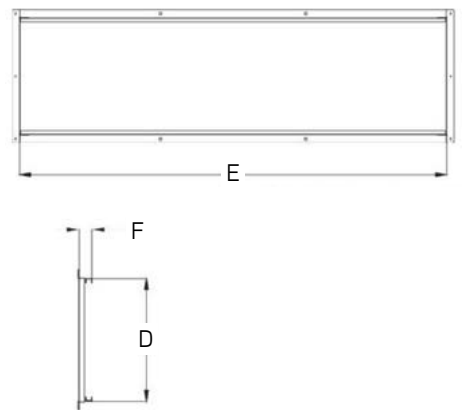
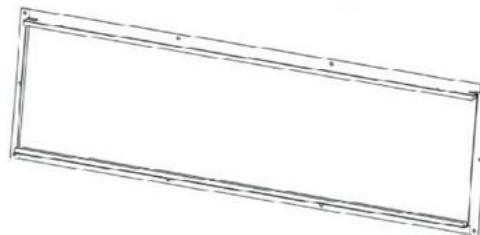
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#### DIMENSIONS

D 10-3/8

E 26

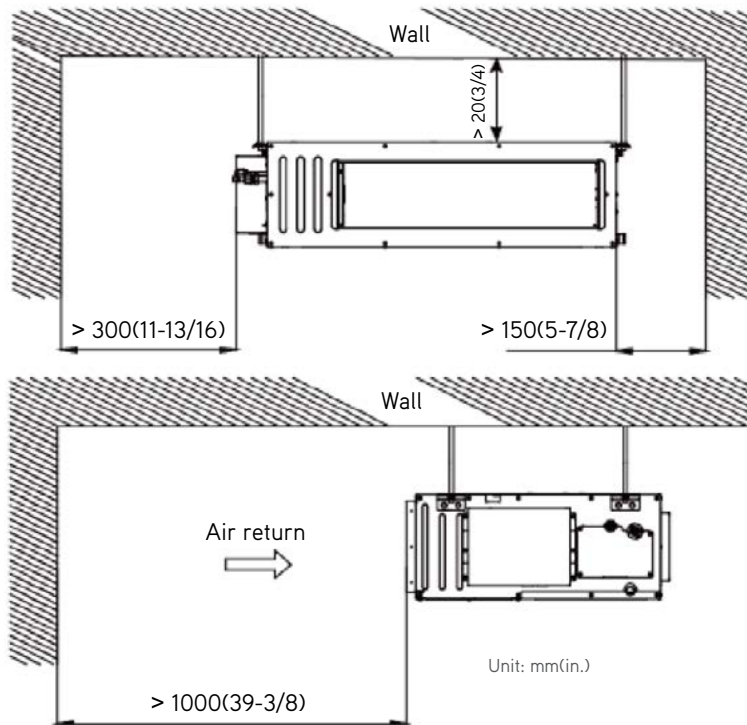
F 1-1/8



# CLEARANCES

## INDOOR UNIT

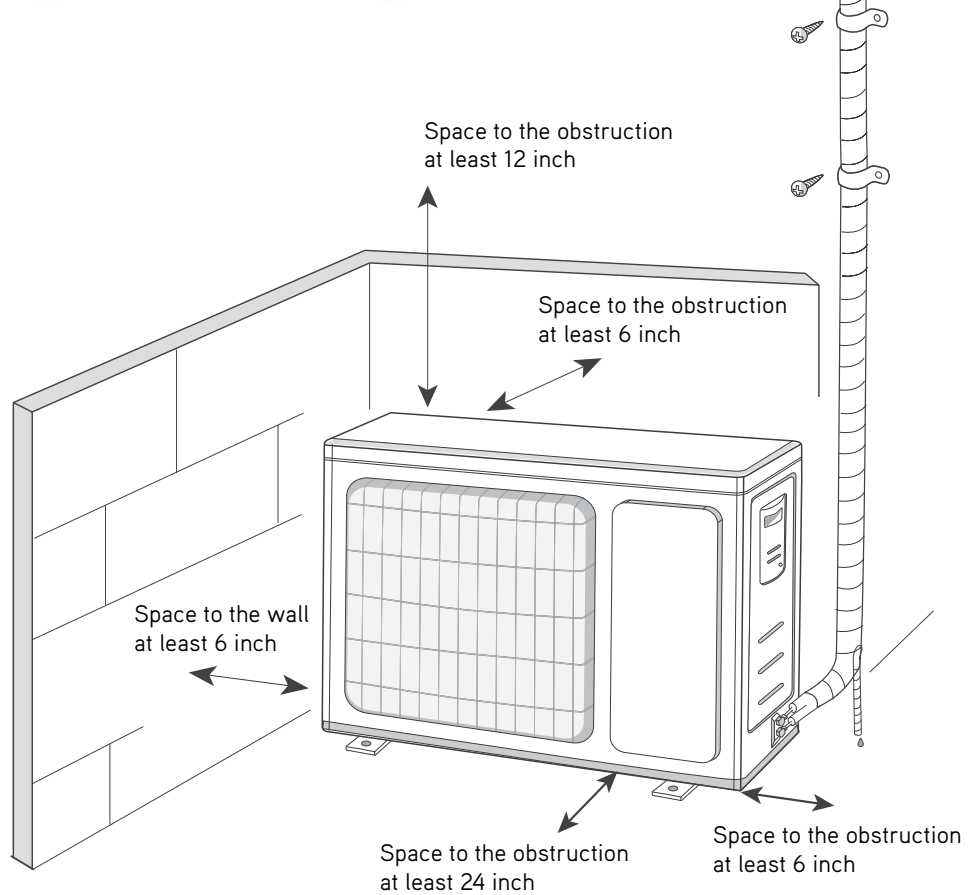
Minimum clearance



## OUTDOOR UNIT

Minimum clearance

**NOTE:**  
If bottom of the unit is free of airflow obstructions similar to the mounting bracket figure, the clearance to the wall on the back can be reduced to 3 inches.



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