
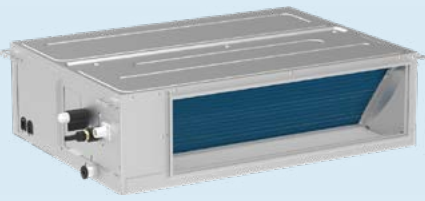



SUBMITTAL DATA

DUC18HP230V1R32AH
18000 BTU/H Slim Duct (HS) Heat Pump System

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

		
YBE1FB5F	DUC18HP230V1R32AH	XE72-44/E

GENERAL FEATURES

- AHRI Certificate: 215417458 (Vireo R32), 215417451 (Envo R32), 215416020 (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			DUC18HP230V1R32AH		
System Type			HEAT PUMP		
Outdoor Model		VIR18HP230V1R32AO	ENV18HP230V1R32AO	SAP18HP230V1R32AO	
SYSTEM PERFORMANCE					
Cooling	Min - Max	Btu/h	5,100 - 23,200	5,100 - 23,200	5,100 - 23,200
	Capacity @95°F	Btu/h	18,000	18,000	18,000
Heating	Min - Max	Btu/h	5,800 - 23,500	5,800 - 23,500	5,800 - 23,500
	Capacity @47°F	Btu/h	18,000	18,000	18,000
	Capacity @17°F	Btu/h	11,000	11,000	11,500
	Capacity Max @5°F	Btu/h	15,000	15,000	15,500
SEER2			22.5	22.5	24.0
EER2			14.0	14.0	13.65
HSPF2			9.0	9.0	9.2
COP @5°F			1.90	1.90	1.80
Cooling Temperature Range		°F		-20 - 122	
Heating Temperature Range		°F		-22 - 86	
Refrigerant Type				R32	
INDOOR UNIT			DUC18HP230V1R32AH		
Air flow (Min-Max)		CFM	288 - 589		
External Static Pressure (Max)		In W.c.	0.8		
Sound Pressure Level (Min - Max)		dB(A)	25 - 40		
Dehumidification		pt/hr	3.8		
External Dimensions (L x D x H)		in	44-31/64 x 29-11/16 x 11-13/16		
Package Dimension (L x W x H)		in	47-7/16 x 32-1/64 x 14-11/64		
Net Weight		lbs	92.6		
Gross Weight		lbs	106.9		
OUTDOOR UNIT		VIR18HP230V1R32AO	ENV18HP230V1R32AO	SAP18HP230V1R32AO	
Sound Pressure Level		dB(A)	59	59	59
External Dimensions (L x D x H)		in	37-23/32 x 15-53/64 x 25-63/64	37-23/32 x 15-53/64 x 25-63/64	37-23/32 x 15-53/64 x 25-63/64
Package Dimension (L x W x H)		in	40-5/8 x 17-61/64 x 29-1/64	40-5/8 x 17-61/64 x 29-1/64	40-5/8 x 17-61/64 x 29-1/64
Net Weight		lbs	94.8	94.8	94.8
Gross Weight		lbs	104.7	104.7	104.7
REFRIGERANT PIPING					
Refrigerant Charge - R410A		oz	40.6	40.6	47.6
Additional Charge		oz/ft	0.2	0.2	0.4
Line Set Sized by Indoor Unit (Liquid - Gas)		in		1/4 - 5/8	
Line Set Size (Liquid - Gas) - Flared Connections		in	1/4 - 1/2	1/4 - 1/2	1/4 - 5/8
Pre-Charge Length		ft		25	
Pipe Length (Min - Max)		ft	10 - 131	10 - 131	10 - 131
Max. Pipe Elevation		ft	82	82	82
ELECTRICAL					
Power Supply			208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)		
Voltage Range (Min - Max)		VAC		187 - 253	
Rated Current - Cooling		A	11.5	5.9	12.5
Rated Current - Heating		A	11.5	7.8	16
MCA		A	16	11	20
MOCP		A	20	15	25
Suggested Breaker Size		A	20	15	20
Main Power Wire Size		AWG		Per Local Code	
Interconnecting Wire Size		AWG		14 / 4	

FEATURES & FUNCTIONS SUMMARY

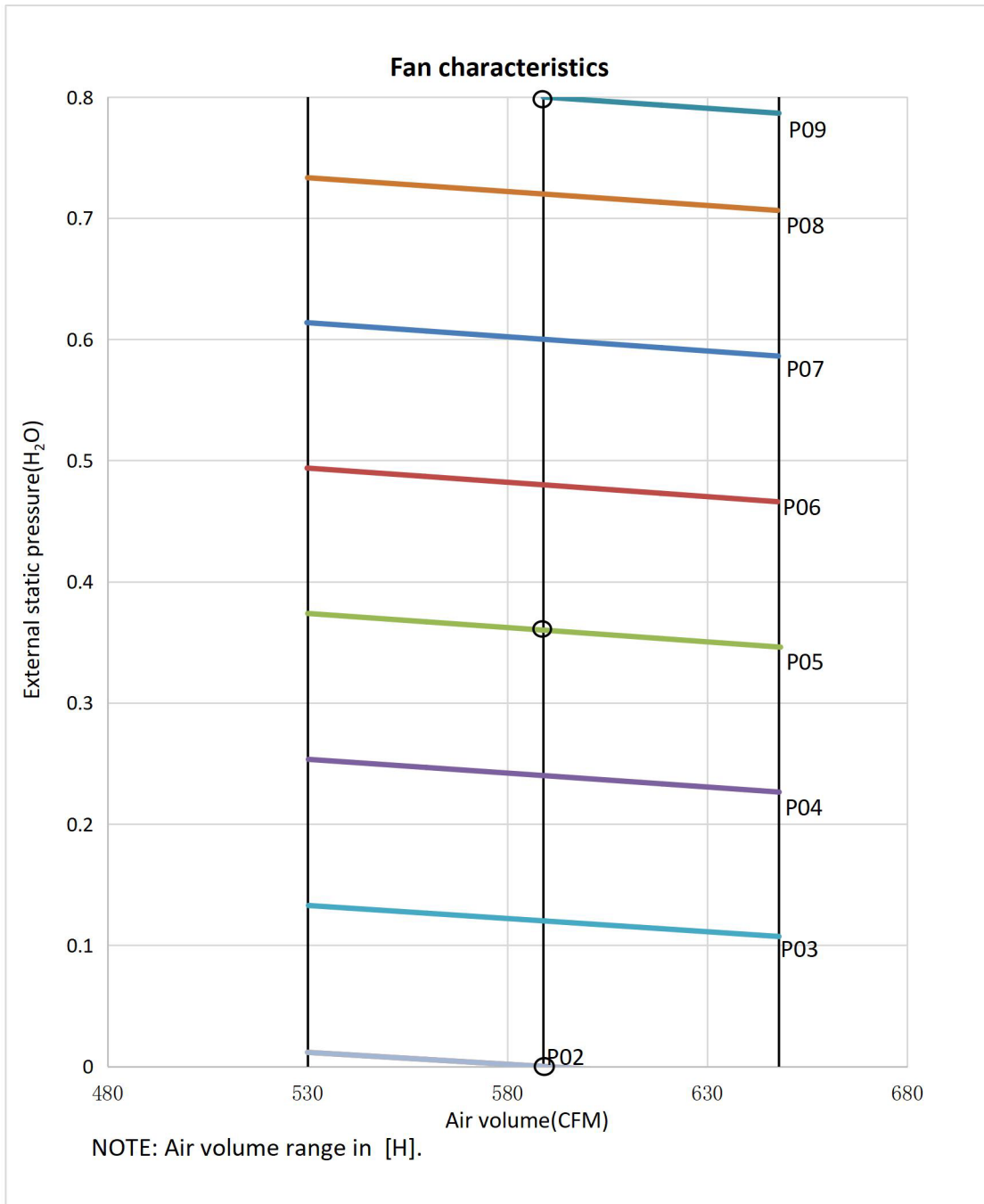
SYSTEM FEATURES

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
Ventilation (Outdoor Air)	Yes

NOTE:

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

FAN PERFORMANCE



NOTE:

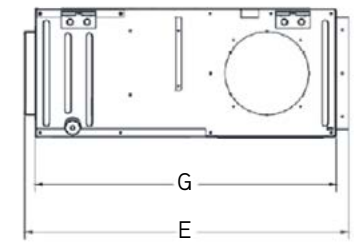
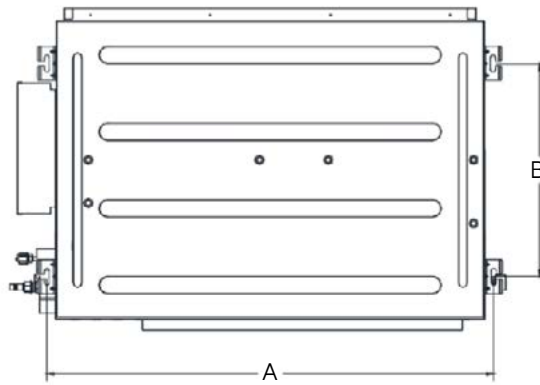
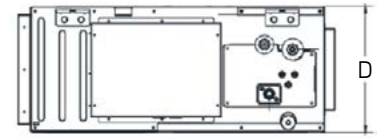
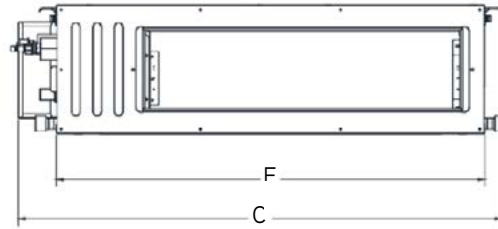
The static pressure is adjusted using the wired controller. Refer to the wired controller instruction manual for more information.

DIMENSIONS

INDOOR UNIT

Unit: inch

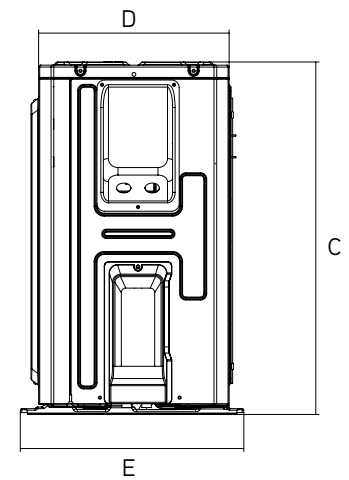
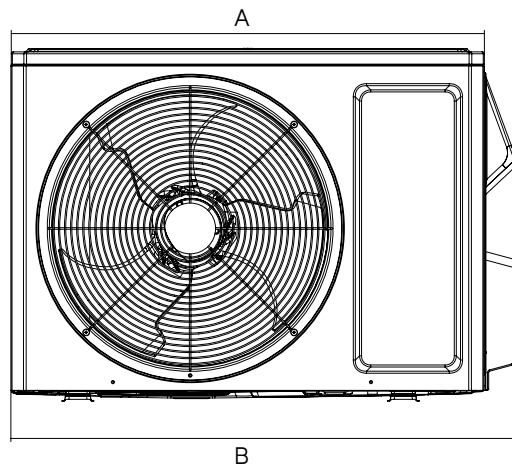
DUC18HP230V1R32AH	
DIMENSIONS	
A	40 15/16
B	19 11/16
C	44 31/64
D	11 13/16
E	29 11/16
F	39 3/8
G	27 9/16



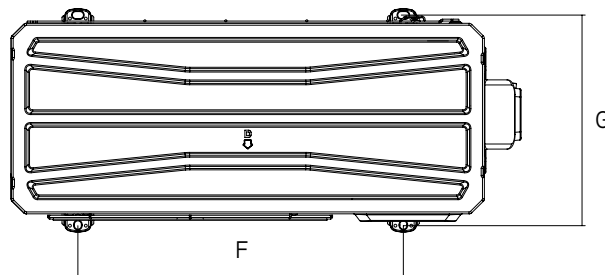
OUTDOOR UNIT

Unit: inch

VIR18HP230V1R32AO	
DIMENSIONS	
A	35
B	37 23/32
C	25 63/64
D	13 25/64
E	15 53/64
F	22 7/16
G	14 39/64



ENV18HP230V1R32AO	
DIMENSIONS	
A	35
B	37 23/32
C	25 63/64
D	13 25/64
E	15 53/64
F	22 7/16
G	14 39/64



SAP18HP230V1R32AO	
DIMENSIONS	
A	35
B	37 23/32
C	25 63/64
D	13 25/64
E	15 53/64
F	22 7/16
G	14 39/64

SUPPLY AND RETURN AIR OPENING DIMENSIONS

SUPPLY AIR OUTLET

Unit: inch

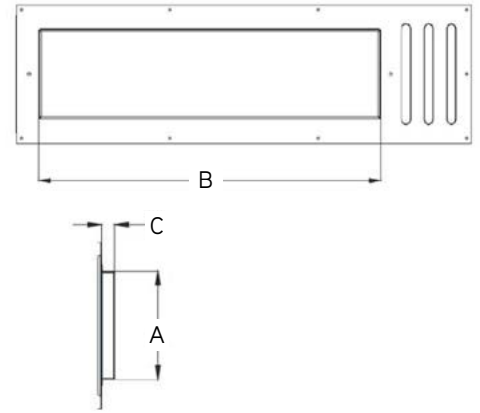
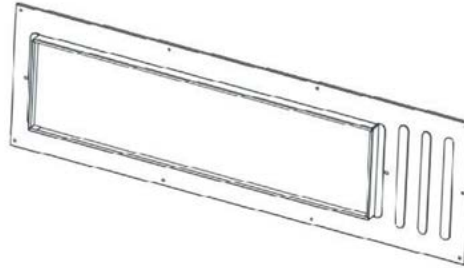
DUC18HP230V1R32AH

DIMENSIONS

A 7-5/8

B 29-9/16

C 1



RETURN AIR INLET

Unit: inch

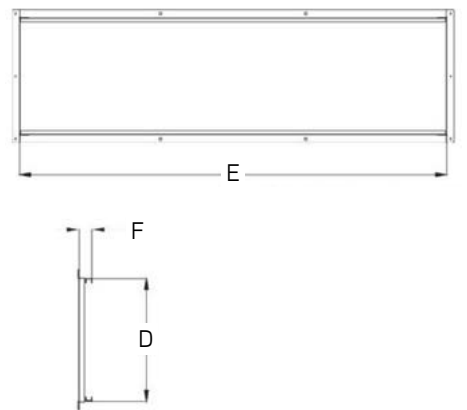
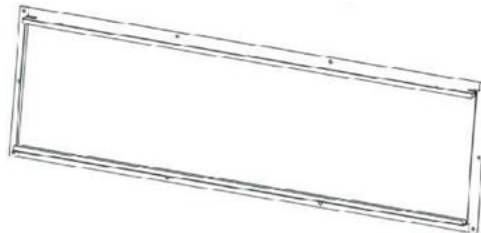
DUC18HP230V1R32AH

DIMENSIONS

D 10-3/8

E 37-3/4

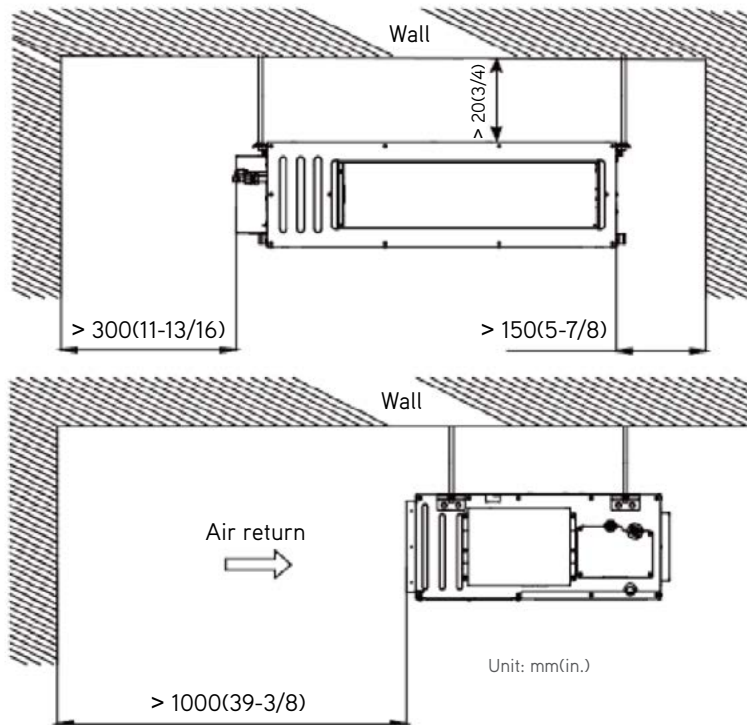
F 1-1/8



CLEARANCES

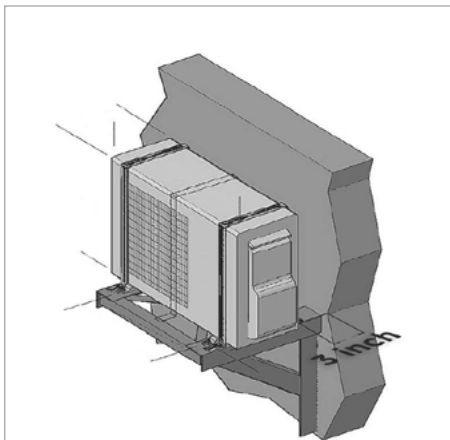
INDOOR UNIT

Minimum clearance

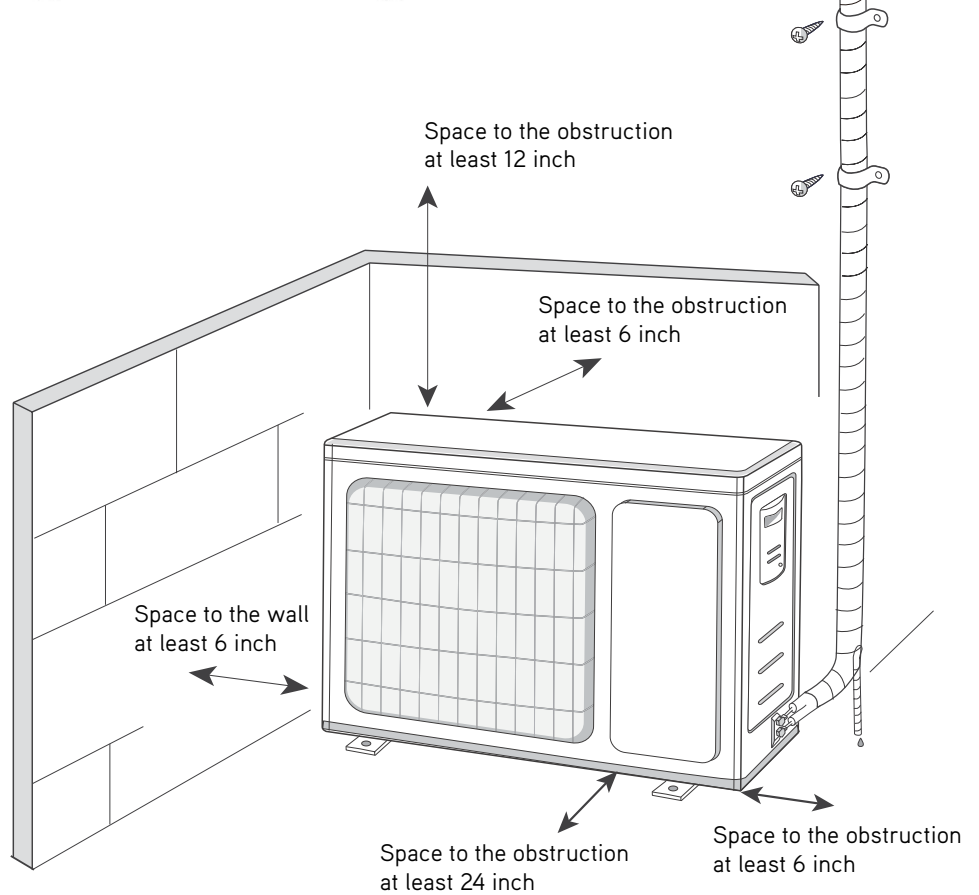


OUTDOOR UNIT

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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