

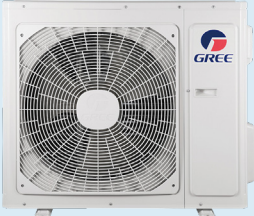



## SUBMITTAL DATA

DUCT18HP230V1BD / 3VIR18HP230V1BO  
18000 BTU/H Slim Duct (HS) Heat Pump System

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

			
YAP1FB2F	DUCT18HP230V1BD	3VIR18HP230V1BO	XE72

### GENERAL FEATURES

- AHRI Certificate: [207201625](#)
- High Efficiency DC Inverter Technology
- Compact and Quiet Design
- Slim Line Construction 11 7/8" high
- 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 Wi-Fi Wired Controller Included
- Low Ambient Cooling down to -20°F (Range -20°F to 122°F)
- Low Ambient Heating down to -22°F (Range -22°F to 86°F)
- Coil (Indoor and Outdoor) Copper Tube / Aluminum Fin
- Blue Colored Fin - 500 Hrs Salt Spray Tested

## SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

### SPECIFICATIONS DUCT18HP230V1BD / 3VIR18HP230V1BO

System Type HEAT PUMP

SYSTEM PERFORMANCE			
Cooling	Min - Max	Btu/h	5118 - 23202
	Capacity @95°F	Btu/h	18000
Heating	Min - Max	Btu/h	5800 - 23543
	Capacity @5°F	Btu/h	
	Capacity @17°F	Btu/h	
	Capacity @47°F	W	19000
SEER2			21.0
EER2			12.7
HSPF2			8.3
COP @5°F			
COP @47°F			3.7
Cooling Temperature Range	°F		-20 - 122
Heating Temperature Range	°F		-22 - 86
Refrigerant Type			R410A

INDOOR UNIT DUCT18HP230V1BD		
Air flow (Min-Max)	CFM	288 - 589
External Static Pressure	In W.c.	0.8
Sound Pressure Level (Min - Max)	dB(A)	26 - 39
Dehumidification	pt/hr	3.8
External Dimensions (W x H x D)	in	44-1/2 x 11-7/8 x 29-3/4
Package Dimension (W x H x D)	in	47-5/16 x 13-5/8 x 32
Net Weight	lbs	93
Gross Weight	lbs	107

OUTDOOR UNIT 3VIR18HP230V1BO		
Compressor Type	GREE G-10 / 2 - STAGE INVERTER	
Sound Pressure Level	dB(A)	59
External Dimensions (W x H x D)	in	37-3/4 x 26 x 15-7/8
Package Dimension (W x H x D)	in	40-5/8 x 29-1/16 x 18
Net Weight	lbs	98.1
Gross Weight	lbs	106.9

REFRIGERANT PIPING		
Refrigerant Charge - R410A	oz	54.7
Additional Charge	oz/ft	0.5
Line Set Sized by Indoor Unit (Liquid - Gas)	in	3/8 - 5/8
Outdoor Service Valve Size (Liquid - Gas)	in	1/4 - 5/8
Pre-Charge Length	ft	25
Pipe Length (Min - Max)	ft	10 - 100
Max. Pipe Elevation	ft	50

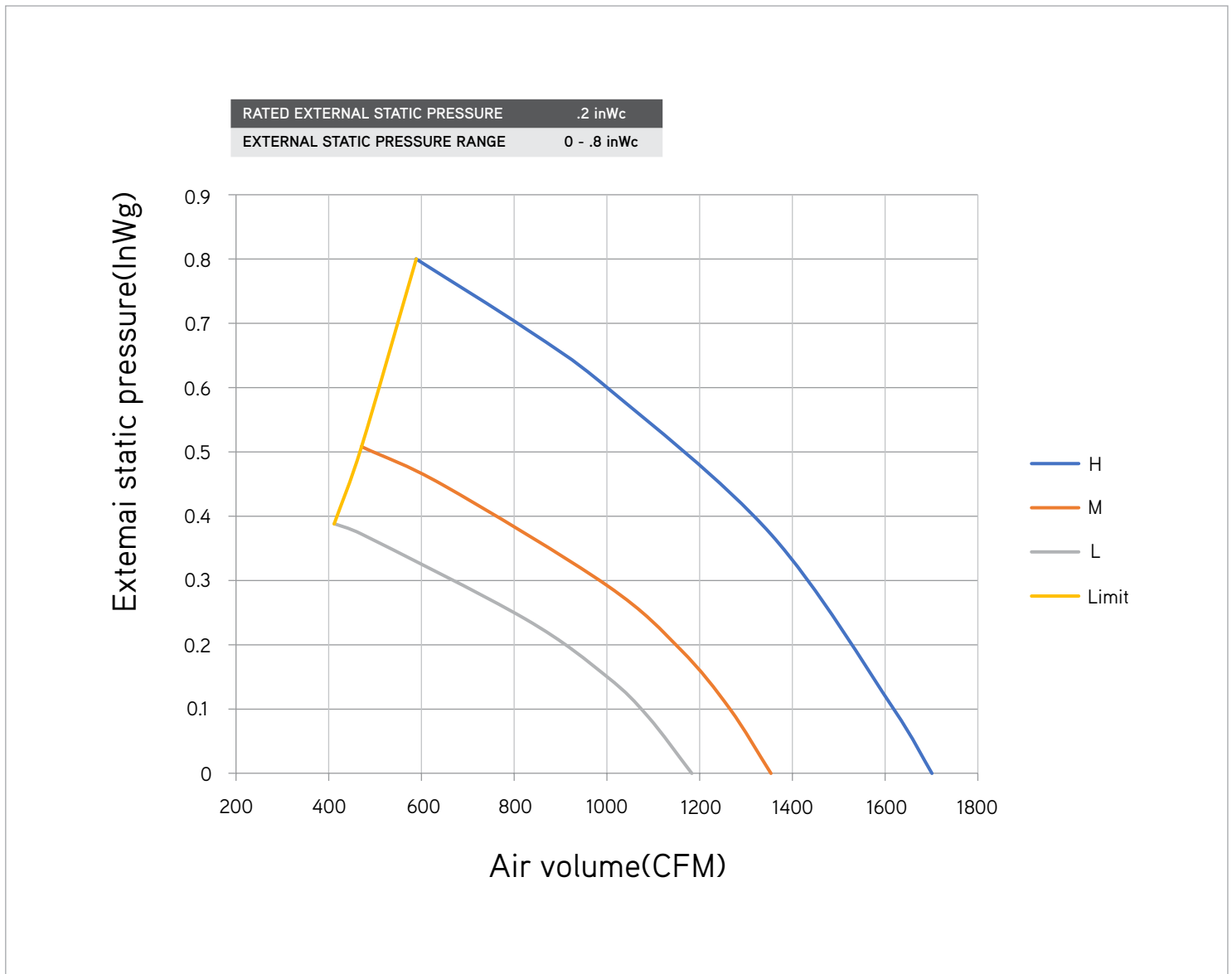
ELECTRICAL		
Power Supply	208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)	
Voltage Range (Min - Max)	VAC	187 - 253
Rated Current - Cooling	A	11.5
Rated Current - Heating	A	11.5
MCA	A	14
MOCP	A	20
Suggested Breaker Size	A	15
Main Power Wire Size	AWG	Per Local Code
Interconnecting Wire Size	AWG	14 / 4

### FEATURES & FUNCTIONS SUMMARY DUCT18HP230V1BD / 3VIR18HP230V1BO

SYSTEM FEATURES	
Inverter Type	G10
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

REMOTE CONTROLLER FUNCTIONS	
Auto Mode	Yes
Auto Fan	Yes
Auto Swing (Horizontal Auto Swing)	No
Auto Swing (Vertical Auto Swing)	No
Clock	Yes
Dry Mode	Yes
Dry Anti-Mildew (X-Fan) Mode	Yes
Energy Saving Mode	Yes
Dirty Filter Alert	No
Fan Speed Control (4 Speeds)	Yes
I Feel Function	Yes
Privacy Lock	Yes
Quiet Mode	Yes
Room Temperature Display	No
Sleep Mode (Normal Sleep)	Yes
4 Sleep Mode Options	No
Timer Mode	Yes
Turbo Mode	Yes
Display On/Off Control	No
Freeze Guard Mode	Yes
Power Failure Mode	Yes

## FAN PERFORMANCE



### NOTE:

During installation there are 9 dip switches in the control box used set static pressure from 0" to .8". You can select P01, P02, P03, P04, P05, P06, P07, P08, P09 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure.

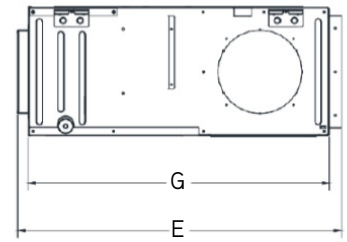
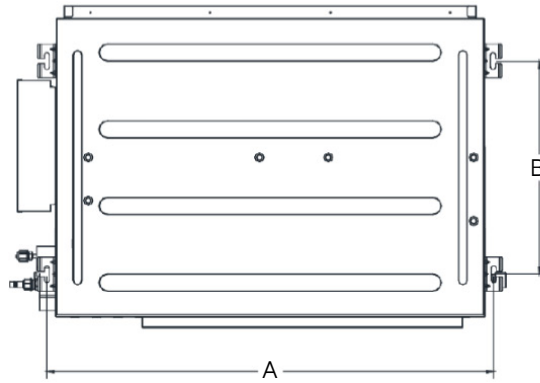
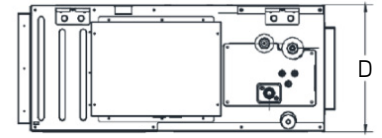
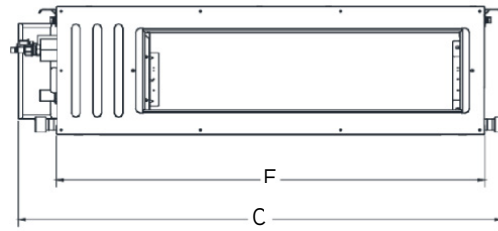
Ex-factory defaulted mode is P05. You can set the mode through wired controller. S01, S02, S03.....S12, S13 means the rotation speed of indoor unit is from low to high.

## DIMENSIONS

### INDOOR UNIT

Unit: inch

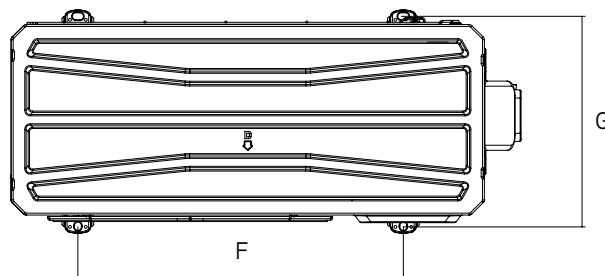
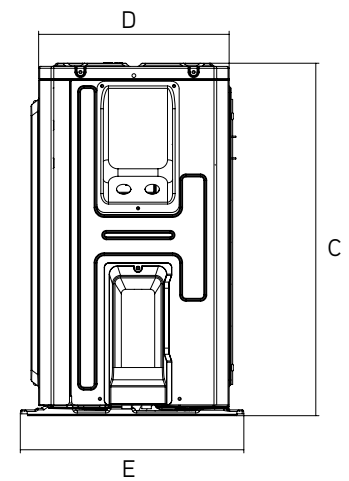
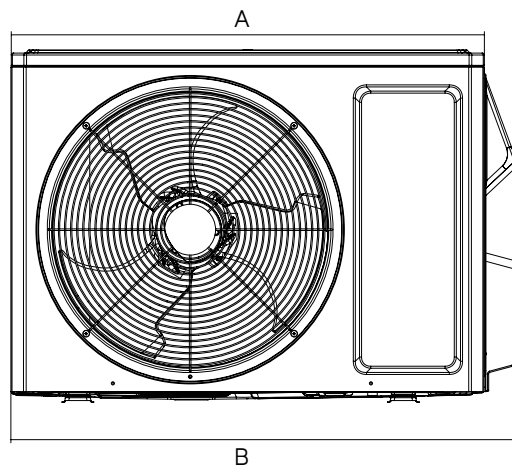
DUCT18HP230V1BD	
DIMENSIONS	
A	41
B	19-3/4
C	44-1/2
D	11-7/8
E	29-3/4
F	39-3/8
G	27-5/8



### OUTDOOR UNIT

Unit: inch

3VIR18HP230V1BO	
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

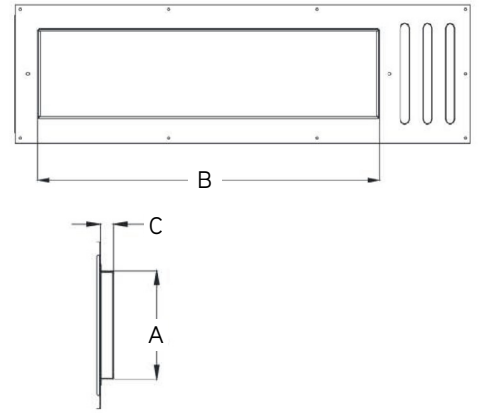
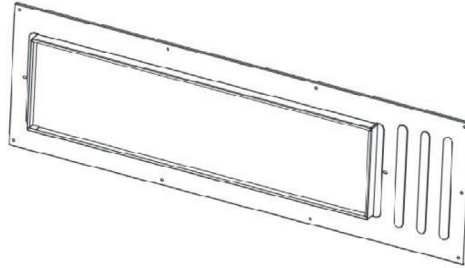


# SUPPLY AND RETURN AIR OPENING DIMENSIONS

## AIR OUTLET

Unit: inch

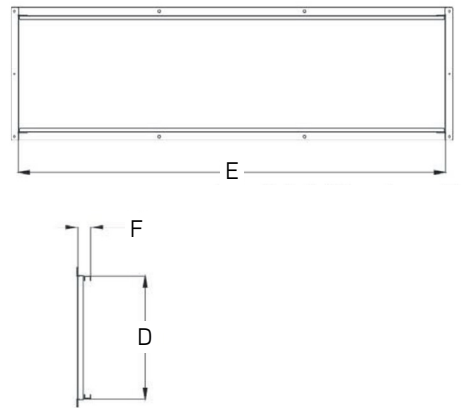
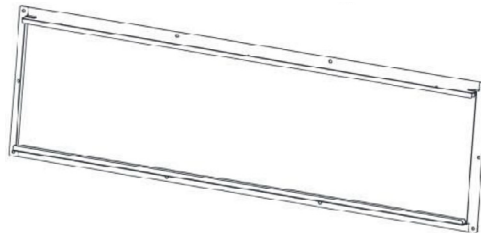
DUCT18HP230V1BD	
DIMENSIONS	
A	7-5/8
B	29-9/16
C	1



## AIR-RETURN OPENING

Unit: inch

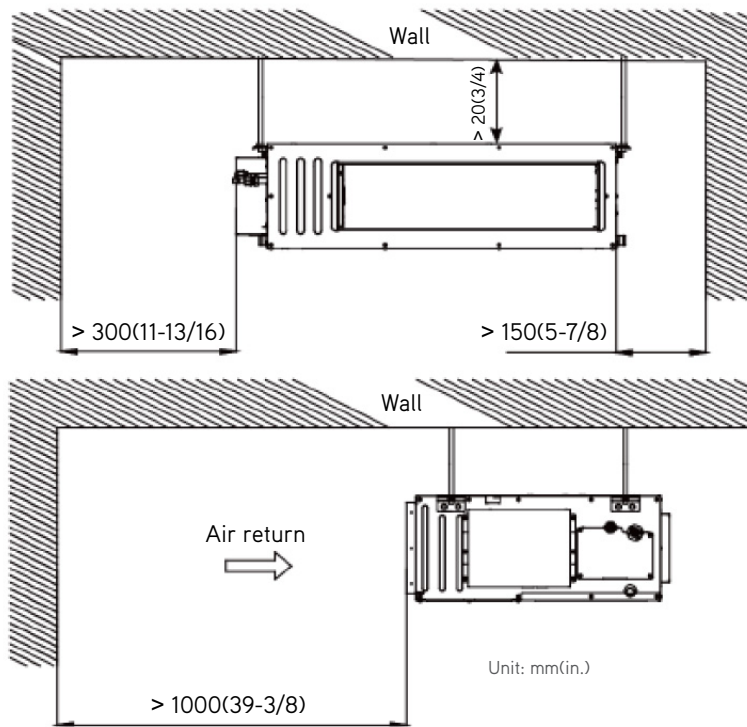
DUCT18HP230V1BD	
DIMENSIONS	
D	10-3/8
E	37-3/4
F	1-1/8



# CLEARANCES

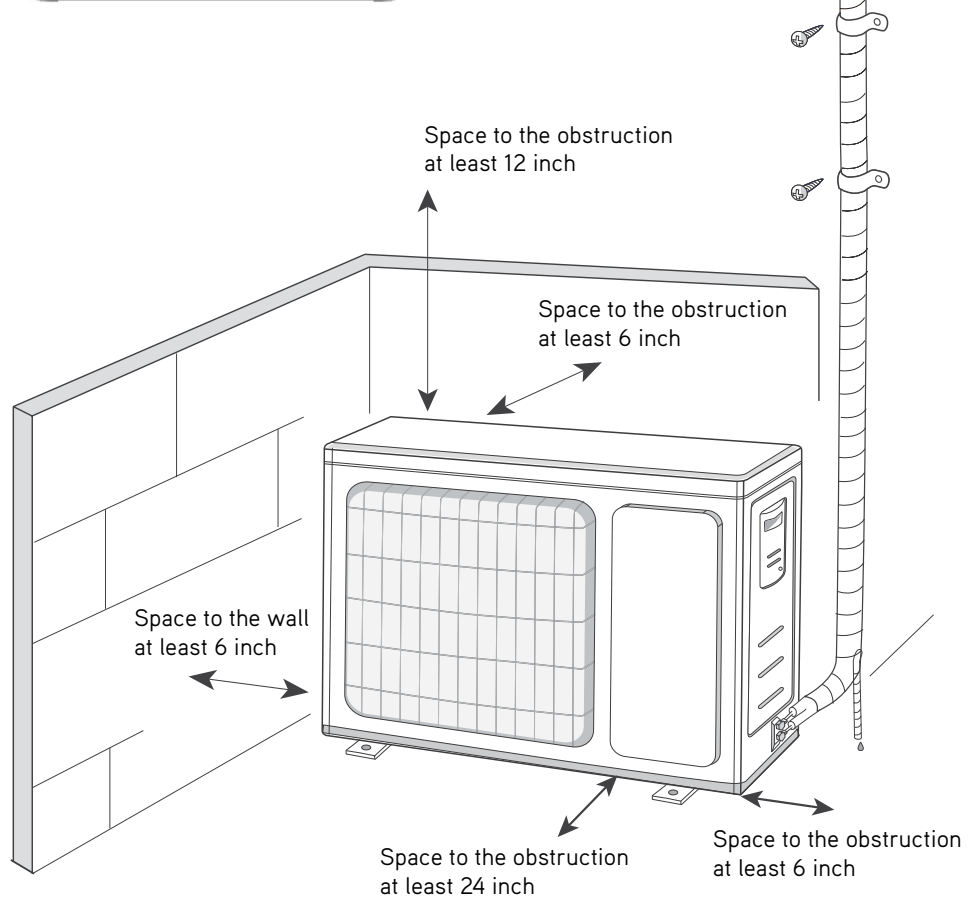
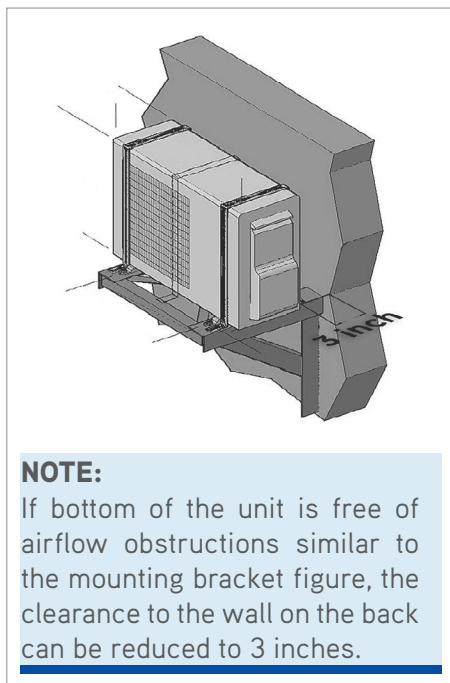
## INDOOR UNIT

Minimum clearance



## OUTDOOR UNIT

Minimum clearance



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