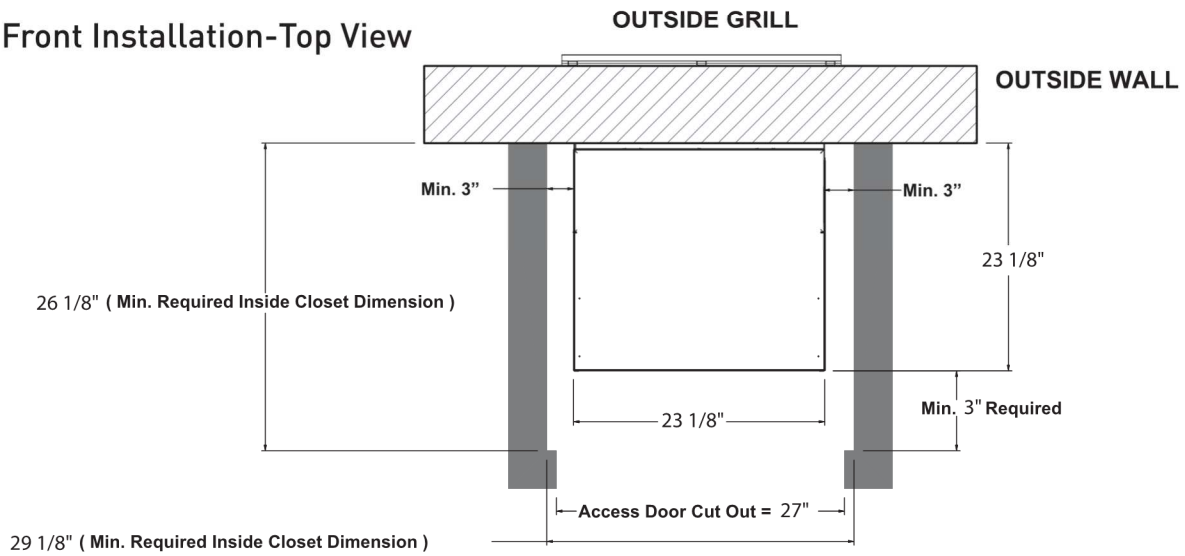
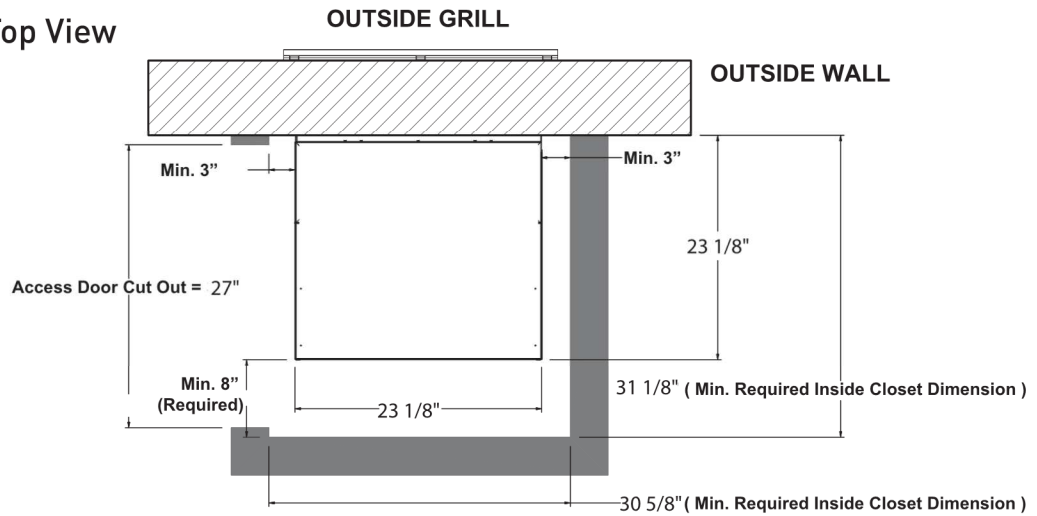


# Closet Orientations & Dimensions

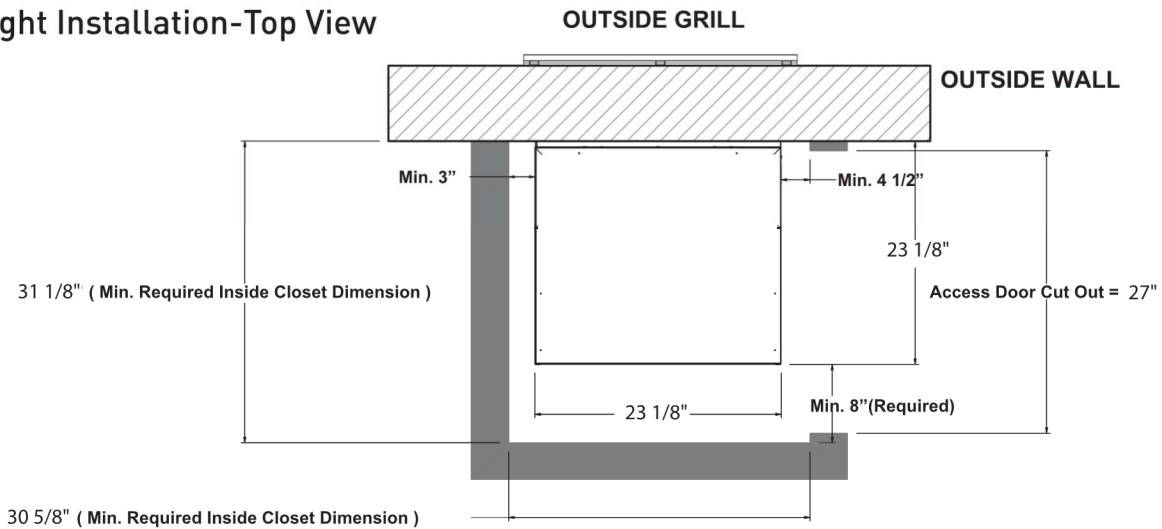
Front Installation-Top View



Left Installation-Top View

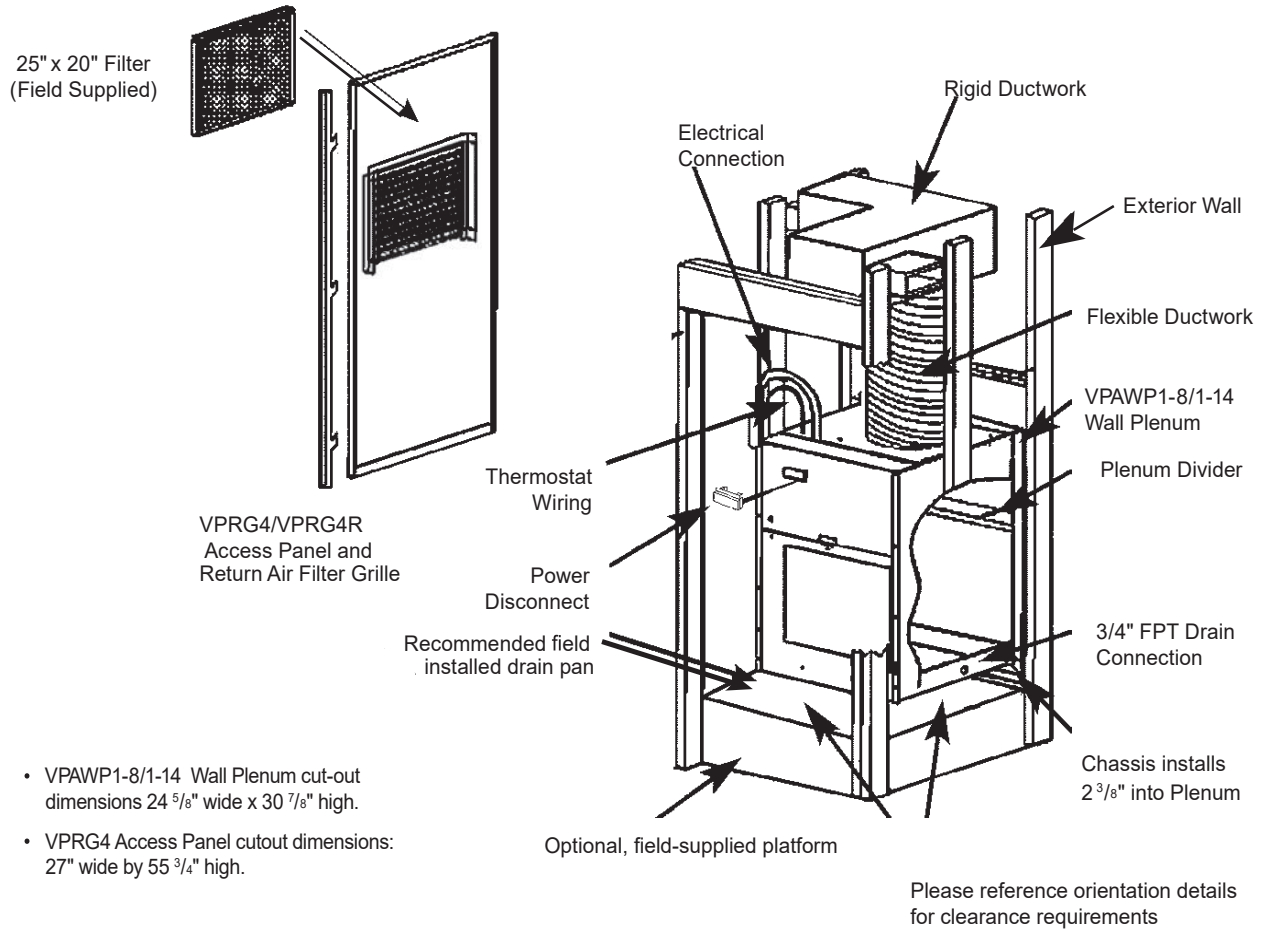


Right Installation-Top View



# Closet View

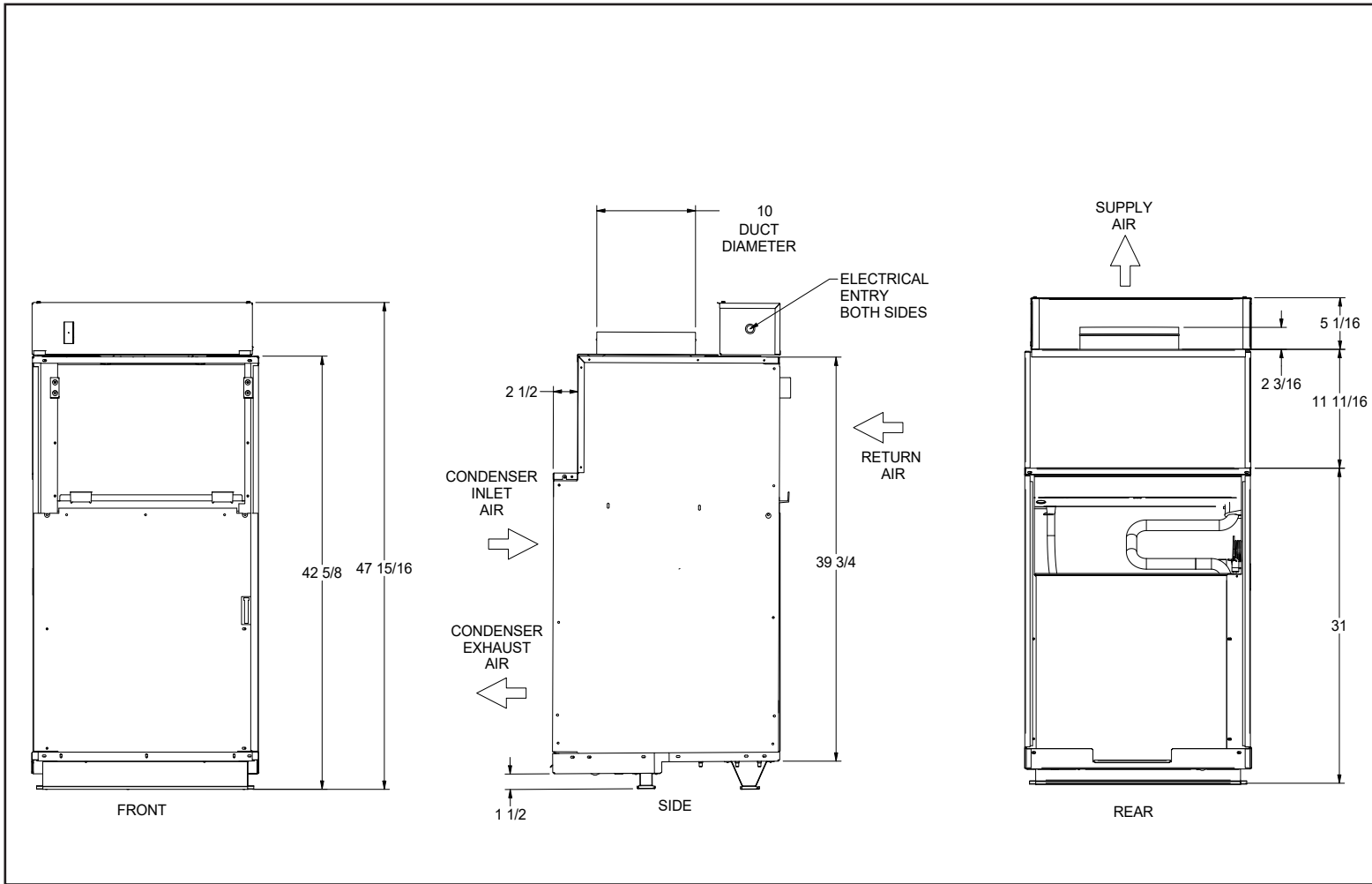
## Example Closet



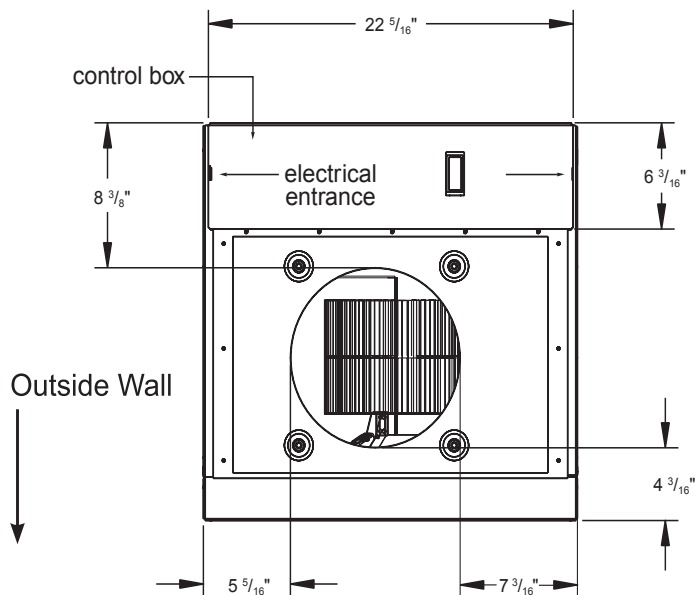
- VPAWP1-8/1-14 Wall Plenum cut-out dimensions 24 5/8" wide x 30 7/8" high.
- VPRG4 Access Panel cutout dimensions: 27" wide by 55 3/4" high.

**NOTE:** It is recommended that 6" of clearance is provided on the side where the primary condensate is plumbed.

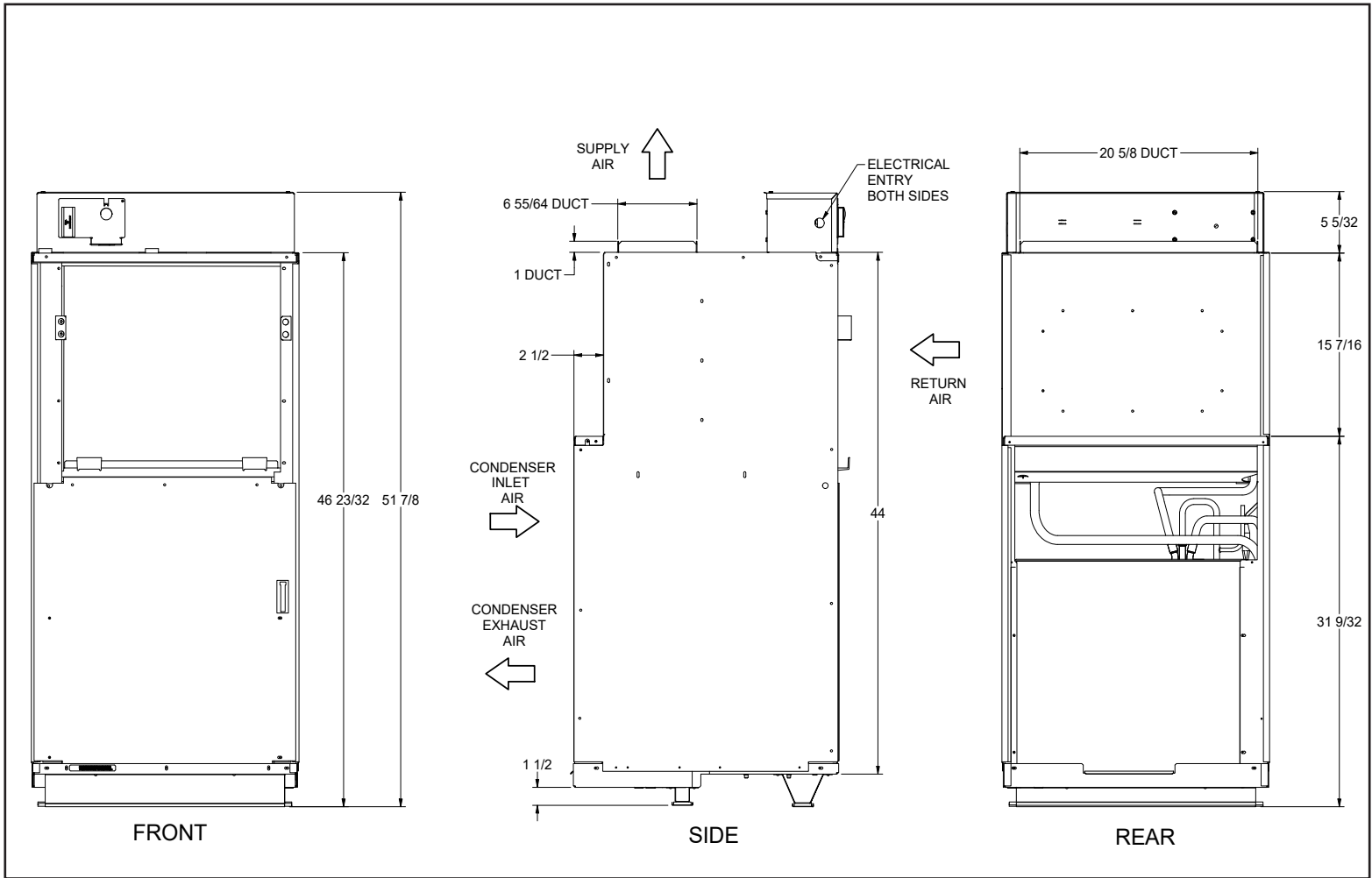
# Chassis Dimensions - VHA18



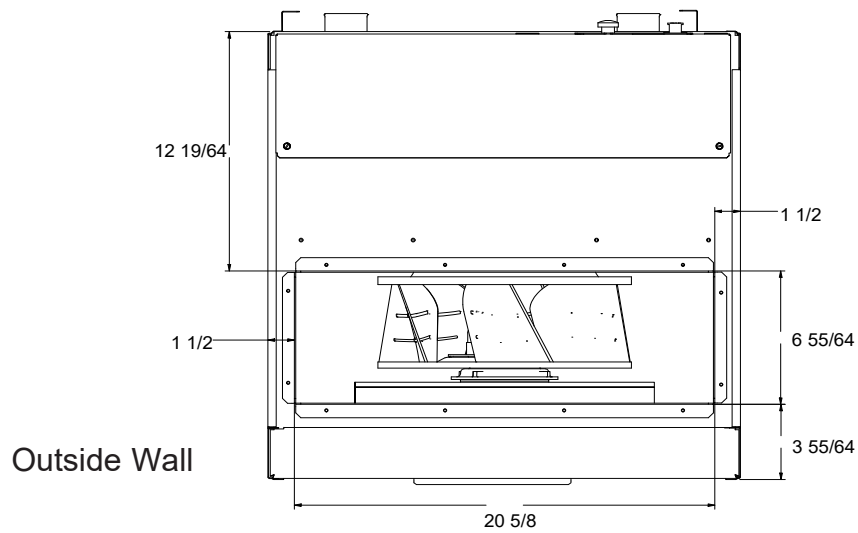
## UNIT TOP VIEW DIMENSIONS



# Chassis Dimensions - VHA24



## UNIT TOP VIEW DIMENSIONS



# Supply Air Flow Data

## Indoor CFM & External Static Pressure

	Model					
	VHA09/VHA12		VHA18		VHA24	
Fan Speed	Low	High	Low	High	Low	High
ESP (")	SCFM					
0.0"	470	520	730	800	755	805
0.05"	460	510	670	735	700	750
0.10"	430	490	630	675	660	700
0.15"	410	470	595	640	615	665
0.20"	360	440	550	600	575	625
0.25"	310	400	505	550	525	580
0.30"	260	350	455	500	485	540
0.35"	--	--	400	445	450	500
0.40"	--	--	345	400	415	465

Indoor air flow may be determined by measuring the external static pressure (ESP) of the duct system using an inclined manometer or magnahelic gauge and consulting the above chart to derive actual air flow. Under no circumstances should the small chassis Vert-I-Pak equipment be operated at an external static pressure in excess of 0.3" W.C. on the VHA09 & VHA12 and 0.4" W.C. on the VHA18 & VHA24. Operation of the Vert-I-Pak under these conditions will result in inadequate air flow, leading to poor performance and/or premature component failure.

## Control

For LOW speed only operation, connect the fan output terminal from the thermostat to the GL terminal of the electronic control.

For HIGH speed only operation, connect the fan output terminal from the thermostat to the GH terminal of the electronic control.

For thermostats with two-speed capability, connect the LOW speed output to the GL terminal and the HIGH speed output to the GH terminal.

## Condenser CFM & External Static Pressure

VPAK is designed to install through an exterior wall with a plenum (VPAWP-8, VPAWP-14) and a Friedrich external louver .

Condenser External Static Pressure			
Model	Design		Maximum
	CFM	ESP (")WC)	ESP (")WC)
VHA09	650	0.03	0.12
VHA12	650	0.03	0.12
VHA18	950	0.03	0.12
VHA24	980	0.03	0.12

If the Friedrich designed plenum and louver combinations are not used, the selections and design must be evaluated by Friedrich to ensure the total pressure drop does not exceed the maximum allowable limits.