

## 25' ABOVE GRADE STACK PACKAGES

### PRODUCT APPLICATION

Fresh air stack rain caps are a part of every stack package Specific Systems manufactures. As a recommended and often required addition to a purge and pressurization unit (PPU) or InPac unit, the stack package provide an easy means of providing fresh air to areas needing a source of non-hazardous air. Two basic designs are available. The standard stack package, comprised of spiral wound galvanized steel, is designed to tolerate wind gusts and steady winds up to 90 MPH, and our high wind design is capable of withstanding winds up to 120 MPH. Stainless steel construction is available as an option.

### PRODUCT DESCRIPTION

Stack packages come complete with rain caps which are manufactured from the same material as the stacks themselves. Standard stacks and rain caps are composed of 16 gauge galvanized steel. If further corrosion protection is requested, an upgrade to 16 gauge 304 or 316 stainless steel is available. An additional upgrade to a spiral wound stainless steel is available as well.

Stacks are often recommended as a source of fresh air in hazardous (classified) areas to meet ASHRAE 62.1 (15 cfm/person).

NFPA 496 (7.2) dictates that "protective gas" shall be air that is free of contaminants and contains only trace amounts of hazardous gas or vapor. It is further agreed that fresh air can be pulled as a protective air from a height of 25' above ground level because the prevalent hazardous gases are heavier than air, and therefore sink.

Rain caps are designed to fit directly onto the corresponding stack diameter, without use of an extra flange. The caps are also engineered to deter the nesting of birds, and include a grate that allows for excellent air flow while protecting against the elements and large debris.

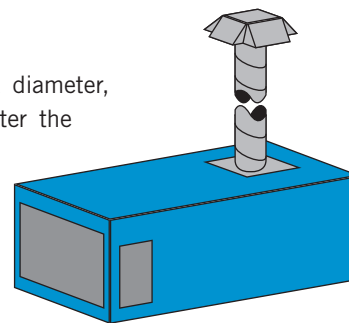
Stack packages are available in 12", 16", 18", and 24" sizes, with rain caps sized to meet the stacks with which they are shipped.

As shown in the figure to the right, free standing stacks are mounted via a T-adaptor and a base that is bolted to the ground. Multiple units have the option of sharing a stack with a single plenum routing fresh air to both units simultaneously. All units have the option of directly mounting the stack to the unit via a flange on the top. Because roof top units are already several feet above the ground, they require the shortest stacks.

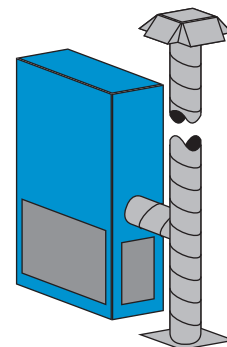
### AVAILABLE OPTIONS

Please contact Specific Systems for additional information and other options available for your application.

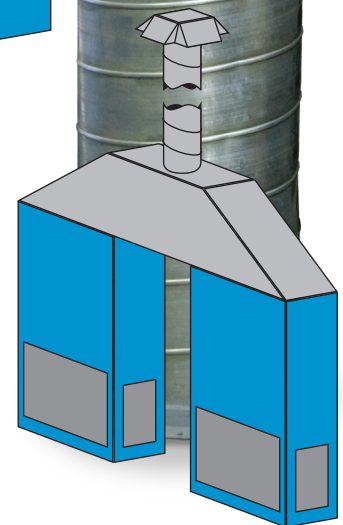
- 304/316 stainless steel
- Spiral wound stainless steel
- High wind bracing
- Airflow measuring station



**Roof Top Unit,  
Directly Mounted Stack**



**Vertical Unit,  
Freestanding Stack**



**Dual Unit,  
Combined Plenum with Stack**