VS and Split System Front Duct Hood Application Chart

Legend: **Low RH Kit** | **High RH Kit** | **Not Recommended**

Cellar Temperature: 55°F

Ambient °F	Relative Humidity (RH) %																	
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
65																			
70																			
75																			
80																			
85																			
90																			
95																			
100																			
105																			
110																			
115																			

Cellar Temperature: 60°F

Ambient °F	Relative Humidity (RH) %																	
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
65																			
70																			
75																			
80																			
85																			
90																			
95																			
100																			
105																			
110																			
115																			

Introduction:

When ducting the FRONT of CellarPro VS and Split cooling units, varying amounts of condensation can occur depending on the ambient conditions where the cooling unit will be located. The charts above are designed to provide guidance in selecting the appropriate front duct kit depending on 1. Your desired cellar temperature, 2. The ambient temperature where the cooling unit will be located, and 3. the ambient relative humidity where the cooling unit will be located.

Discussion:

Condensation generally occurs on the cold surfaces of the face and around the front of the cooling unit when the temperature of the metal falls below the ambient dew point (a function of temperature and humidity). The greater the difference between the dew point and the metal temperature (ie the higher the dew point and the lower the metal temperature), the more condensation will occur.

For this reason, CellarPro has developed two front duct kits for its VS and Split systems: a duct kit for LOW humidity conditions, and a duct kit for HIGH humidity conditions. The HIGH humidity duct kit has extra insulation around the front and face of the cooling unit, and always should be used together with our remote control display kit. In some cases (shown above in red), the humidity conditions are too high even for our HIGH humidity duct kit. In this case, the cooling unit should be moved to a conditioned space and the rear should be ducted if necessary.