



Combustion chambers are employed when it is important to keep material from coming into direct contact with the burner flame in either rotary dryers or kilns. The combustion chamber serves to house the actual combustion reaction, and directs the airflow into the rotary dryer or kiln.

Combustion chambers can be integrated into either co-current or counter current units. A variety of combustion chambers are available, with customizations ranging from single or double shell, refractory lined, and angled. Combustion chambers can also accommodate a wide variety of burners.

Finding a quality combustion chamber is important to the quality of the product, and the energy consumed to get to

the end product. When a low-quality combustion chamber is used, many problems can result, from inefficiency, to product breakdown, and in some cases, a short combustion chamber lifespan.

### **ADVANTAGES OF A FEECO COMBUSTION CHAMBER**

#### **LOWER DRYING COST**

Less fuel consumption because of more complete combustion of fuel

#### **UNIFORM DRYING**

More complete and uniform heating of drying air increases its capacity to pick up and retain moisture

#### **AVOIDS PRODUCT BREAKDOWN**

With no direct flame impingement on product, critical breakdown temperature is not reached

#### **LESS COOLING CAPACITY REQUIRED**

Lower temperature of product leaving dryer results from no direct firing on product

#### **CUSTOM DESIGNED**

Custom designed for optimum drying efficiency based on the specific conditions and application

#### **HIGH QUALITY**

Materials of construction are of the highest quality and workmanship—made for many years of service