



Enclosed Combustor - AB-20

COMSTDAB20

Introduction

Cimarron is pleased to offer the Aereon AB-20 Quad-O Certified Combustor to meet the specified needs of your application. Please note that the shell of this combustor is constructed out of stainless steel and it is not insulated. The skin temperature could be greater than 1000 degrees Fahrenheit.

Advantages of Using Our Unique Combustion Technology

Operating Temperatures up to 2100°F
Modular, Compact Design & Easy to Install/Service
OOOO (Quad O) Certified. >98% DRE when operating within flow rate guidelines and stated process sizing parameters.

Combustion Chamber

20" Diameter enclosed combustion chamber, 16 feet overall height
Single piece design for ease of transportation and installation
Material of Construction

- Flare Stack Enclosure: 304SS

Internal Burner Nozzle Assembly

Proprietary Design Promotes Air Induction & Complete Combustion
Requires No Assist Gas, No Steam, No Premixing, and No Blowers
3" x 150# RFSO Stainless Steel Inlet Nozzle For Waste Gas
304 Stainless Steel Piping
Gas Fittings in Accordance with NFPA, UL, and/or CSA
Flare Inlet Line (Shipped loose for field installation) including Pneumatic SDV & Deflagration Arrestor, see below for instrument details.

Cimarron Standard Pilot

Electric Spark Ignition
Pilot Monitored Via Ionization Rod
Pilot Nozzle/Body - 310/316SS
Pilot Fuel Gas Assembly Line Including:

- Pilot Isolation Ball Valve 1/2IN 150# ONE PIECE 304SST
- Pilot Shutdown Solenoid Valve 1/4IN 2WAY 24VDC





Included Accessories

Description	OEM	OEM Model #	QTY
Deflagration Arrestor Kit RF 3In CS X SST	Protego	100406/156897	1
Valve, Butterfly Pneumatic 3IN LP IRON 304 SS	Cimarron	108517	1
Pressure Transducer 1/2" NPT 0-50IN H2O W/ 6IN LEADS 304 SS	Cimarron	104281	1
Sight Glass 2" MNPT without Reflector 304 SS	Generic	104528	1
Stack Thermowell 9" X 0.260 BORE 1/2IN MNPT STRAIGHT 304 SS	Generic	104280	1
Stack Thermocouple 9" TYPE K 304 SS	Generic	104279	1

Utilities

Pilot Gas:	Propane: 15 SCFH @ 4 psig. If Natural Gas is used: 30 SCFH @ 8 - 10 psig (per ignitor). Max Inlet Pressure: 150 psig
Electrical:	24 VDC (Controls)
Instrument Air	30 psig minimum

Optional Accessories

Description	OEM	OEM Model #	QTY
Kit Bird Screen AB20	Cimarron	159188	1
5'x5' Half Skid For AB20	Cimarron	1622705	2
Weldment Stack Extension AB20 19"ODx96"	Cimarron	IFS104704	1
60" x 60" x 8" Concrete Pad For AB-20	Cimarron	159229	1
AB20 Air Intake / Windguard	Cimarron	106986	1

Optional Spare Parts Kits (Other Voltages available as custom kit)

Aereon Control System Kit				
Description	Part No.	Start-Up	2 Years	Weight
Thermocouple, 1/4"x9" 316SS Single Type K	157952	1	1	4 lbs.
Thermowell 1/2"MNPTx1/2"FNTP 9"x.250" Bore 304 SS	157953	1	1	4 lbs.

Operational Clarifications

This is a non temperature-controlled unit, therefore NOx and CO emissions cannot be guaranteed.

Minimum DRE is 98%

This unit is not insulated. Customer to inform if there are any special requirements regarding maximum allowable temperature around the unit.

The unit may not meet all structural requirements of the Plant. Customer to inform if there are any local regulations to consider.



AB-20 Flow Curve



