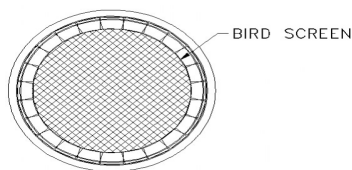


FS-ECD-25 - High Efficiency Enclosed Combustor



BIRD SCREEN



BIRD SCREEN

2" SIGHT GLASS

BMS

PILOT

KO POT

OPTIONAL
INLET AIR
BLOWER

AIR VENTS
IN BASE

DESIGN DATA

Design Parameters	Max Flow Rate (MSCFD):	25
	Design MMBTU/Hr:	2.5
	Average MW:	44
	Cp/Cv:	1.24
	LHV (BTU/SCF):	2300
	Specific Gravity:	1.57
	Design Chamber Temp (F):	1400
	Design Temp of Gas (F):	100
	Chamber Temperature Monitoring:	Yes
	High Temperature Shutdown:	Yes
	2300 Deg Blanket Refractory (In):	3
	Inlet Knockout Drum w/ Electric Pump:	Yes
	Fuel Gas Scrubber:	Yes
	Flame Ionization Pilot Monitoring:	Yes
	BMS System W/ Pilot:	Yes
Results	Min. Inlet Pressure (Oz/In ²):	4
	Total Pressure Drop of Unit (Oz/In ²):	3.3
	At Full Flow	
	Waste Gas Inlet:	2"
	Burner Stages	2
	Lower Stack Outer Diameter (In):	24
	Overall Stack Height (Ft):	20'-0"
	Max Chamber Temp (F):	<1800
	Combustion Efficiency (%):	>99%
	Pilot Gas Consumption (SCFH):	40
	Out Wall Skin Temperature (F):	<150

