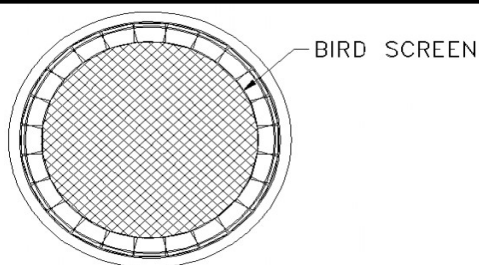
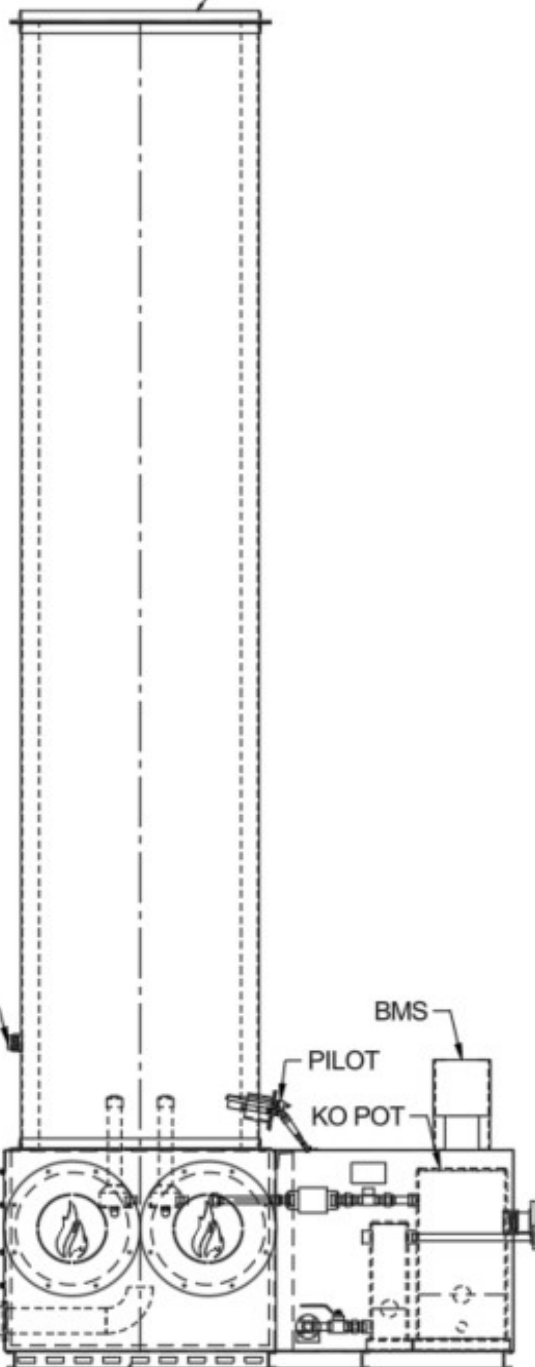


FS-ECD-100 - High Efficiency Enclosed Combustor



BIRD SCREEN



DESIGN DATA

Design Parameters	Max Flow Rate (MSCFD):	100
	Design MMBTU/Hr:	10
	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:	3"
	Burner Stages	2
	Lower Stack Outer Diameter (In):	42
	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

