

Air Burners PGFireBox 500 kW_e Specifications

Power Generation Module		
1	POWER REQUIREMENTS	480 VAC/60 Hz/3 ϕ or 400 VAC/50 Hz/3 ϕ , 1.2 kA Service, Higher Voltages Available
2	POWER FACTOR	Load- and site-dependent (0.9 - 1.0)
3	POWER GENERATION MODULE	Fully-Integrated Organic Rankine Cycle (ORC) Power Module with 500 kW Gross Asynchronous Generator
4	POWER GENERATION	Gross Electric: 500kW, Thermal: 2.5MW
5	SAFETY SYSTEMS	Electrical Grid Protection, Over-Temperature, Over-Pressure
6	CONTROL SYSTEM	PLC-Based; Remote Monitoring and Control over the Internet
7	TRANSPORTATION AND SETUP	Ships in containers; Ready for immediate use after simple skid alignment and hood installation; Lifting eyes provided for crane lifting. Skid bases facilitate, final positioning
8	COOLING WATER (CW) REQUIREMENTS	725 gpm [45.7 l/s], 77° F [25° C] Max. See option below
9	CW INTERFACE	DN200 PN16 Flanges
10	INDUCTION FAN	VFD-Controlled; Variable Speed
11	HOT OIL (HO) PUMP	VFD-Controlled; Variable Speed
12	HO SYSTEM THERMAL FLUID	Theminol 66 (or equiv.)
13	CONSTRUCTION	Steel WF beam and square tubing construction with full-length skid plate; Epoxy-paint
14	APPROX. WEIGHT	69,000 lbs [31,300 kg]
15	DIMENSIONS (W/ HOOD INSTALLED)	L x W x H
		39' x 14' x 12' [11.9 m x 4.3 m x 3.7 m]
FireBox Module		
1	AIR CURTAIN FAN POWER	75 hp [55 kW] Electric Motor VFD-Controlled
2	BURN CONTAINER (FIREBOX)	4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, three ignition holes
3	SAFETY SYSTEMS	Fully integrated with PGF controller
4	INSTRUMENT PANEL	Touch-screen control from PGF Control Room
5	AIR CURTAIN FAN MOTOR CONTROL SYSTEM	PLC-Based; Speed selection fully integrated with system controller
6	AIR SUPPLY	Custom Heavy Duty Fan
7	TRANSPORTATION AND SETUP	Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel
8	WASTE MATERIAL ELIMINATION RATE	Up to 13 tons per hour
9	FIREBOX MODULE WEIGHT	57,000 lbs [25,800 kg]
10	OVERALL DIMENSIONS	L x W x H
		38' x 11' x 10' [11.6 m x 3.4 m x 3 m]
Cooling Module (Optional)		
1	APPROX. WEIGHT (DRY)	35,000 lbs [15,900 kg]
2	DIMENSIONS (INCLUDING SKID BASE)	L x W x H
		36' x 19' x 25' [11 m x 5.8m x 7.6 m]