Air Burners PGFireBox 100 kWe Specifications

		Power Module
1	POWER REQUIREMENTS	460 VAC/60 Hz/3φ or 400 VAC/50 Hz/3φ, 225 A Service
2	POWER FACTOR	Load- and site-dependent (0.9 - 1.0)
3	POWER GENERATION MODULE	Fully-Integrated Organic Rankine Cycle (ORC) Power Module with 100 kW Gross Asynchronous Generator
4	POWER GENERATION	Gross Electric: 100kW, Thermal: 1MW
5	ORC WORKING FLUID	Honeywell Genetron 245fa (Non-ozone-depleting)
6	SAFETY SYSTEMS	Electrical Grid Protection, Over-Temperature, Over-Pressure
7	CONTROL SYSTEM	PLC-Based with Touch-Screen
8	REMOTE MONITORING	Internet-based monitoring and Operations
9	TRANSPORTATION AND SETUP	Ships in containers; Ready for immediate use after simple hood installation; Padeyes provided for crane lifting. Full skid base facilitates final positioning
10	COOLING WATER (CW) REQUIREMENTS	325 gpm [20.5 l/s], 70° F [20° C] See option below
11	CW INTERFACE	4" Nominal, 150 lb-Class ANSI Flanges
12	INDUCTION FAN	PLC-Controlled; Variable Speed
13	HOT WATER (HW) PUMP	PLC-Controlled; Variable Speed
14	HW SYSTEM WORKING FLUID	Ethylene-Glycol/Water Mix
15	CONSTRUCTION	Steel WF beam and square tubing construction with full-length skid plate; Epoxy-paint
16	APPROX. WEIGHT	35,500 lbs [16,100kg]
17	DIMENSIONS	L x W x H
	(W/ HOOD INSTALLED)	34' x 7'5" x 8'5"
[10.4 m x 2.1 m x 2.6 m] FireBox Module		
		LII 6007 Modale
1	AIR CURTAIN FAN POWER	30 hp [22 kW] Electric Motor VFD-Controlled
1 2	AIR CURTAIN FAN POWER BURN CONTAINER (FIREBOX)	
_		30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material.
2	BURN CONTAINER (FIREBOX)	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes
2	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller
3 4	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room
2 3 4 5	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller
2 3 4 5	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor
2 3 4 5 6 7	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel
2 3 4 5 6 7 8	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION RATE FIREBOX MODULE WEIGHT	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel Up to 8 tons per hour 36,000 lbs [16,300 kg] L x W x H
2 3 4 5 6 7	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION RATE	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel Up to 8 tons per hour 36,000 lbs [16,300 kg] L x W x H 30' x 7' 5" x 8' 5"
2 3 4 5 6 7 8	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION RATE FIREBOX MODULE WEIGHT	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel Up to 8 tons per hour 36,000 lbs [16,300 kg] L x W x H
2 3 4 5 6 7 8	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION RATE FIREBOX MODULE WEIGHT OVERALL DIMENSIONS	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel Up to 8 tons per hour 36,000 lbs [16,300 kg] L x W x H 30' x 7' 5" x 8' 5" [9.1 m x 2.1 m x 2.6 m] Cooling Module (Optional)
2 3 4 5 6 7 8 9	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION RATE FIREBOX MODULE WEIGHT OVERALL DIMENSIONS APPROX. WEIGHT (DRY)	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel Up to 8 tons per hour 36,000 lbs [16,300 kg] L x W x H 30' x 7' 5" x 8' 5" [9.1 m x 2.1 m x 2.6 m]
2 3 4 5 6 7 8 9	BURN CONTAINER (FIREBOX) SAFETY SYSTEMS INSTRUMENT PANEL AIR CURTAIN FAN MOTOR CONTROL SYSTEM AIR SUPPLY TRANSPORTATION AND SETUP WASTE MATERIAL ELIMINATION RATE FIREBOX MODULE WEIGHT OVERALL DIMENSIONS	30 hp [22 kW] Electric Motor VFD-Controlled 4" [102 mm] thick refractory panels filled with proprietary thermal ceramic material. Two full-height rear doors, two ignition holes Fully integrated with PGF controller Touch-screen control from PGF Control Room PLC-Based; Speed selection fully integrated with system controller Custom Heavy Duty Fan Shipped fully assembled and tested, requires only connection of the three-phase motor power to the PG Module power distribution panel Up to 8 tons per hour 36,000 lbs [16,300 kg] L x W x H 30' x 7' 5" x 8' 5" [9.1 m x 2.1 m x 2.6 m] Cooling Module (Optional) 17,500 lbs [7900 kg]

