SHAND&JURS

PRODUCT DATA SHEET

97300

Waste Gas Burner

- High Performance Stoichiometric Pilot
- No Flame Front Burn-out of Pilot Gas During Ignition
- Sizes 2” Through 12”
- Burns High Flow, Low BTU “Wet” Methane
- No Venturi Maintenance
- Minimizes Pilot Pipe Freeze Potential
- State-of-the-Art Digital Control
- Fully Automated Continuous or Intermitant Pilot
- Provides Alarm Outputs

The Shand & Jurs 97300 Waste Gas Burner

The S&J 97300 Waste Gas Burner is specifically designed to operate efficiently with low BTU anaerobic digester waste gases. The 97300 helps to properly contain and incinerate waste gases thus minimizing odors and VOC’s.

Its stainless steel components withstand the severest of process environments. The S&J 97300 is especially designed for hydrogen sulfide and hot, wet methane which are the main components of digester gas streams in municipal waste water treatment facilities.

The 97300 is 100% U.S. made.

Applications

Anaerobic digester gas train

Fermentation off gas piping systems

Low pressure vent lines

5911 Butterfield Road, Hillside, Illinois 60162 Phone: (708) 236-6000 Fax: (708)236-6006
E-mail: sales@ljtechnologies.com http:\\www.ljtechnologies.com

ISO 9001 Registered
PDS97300-2B

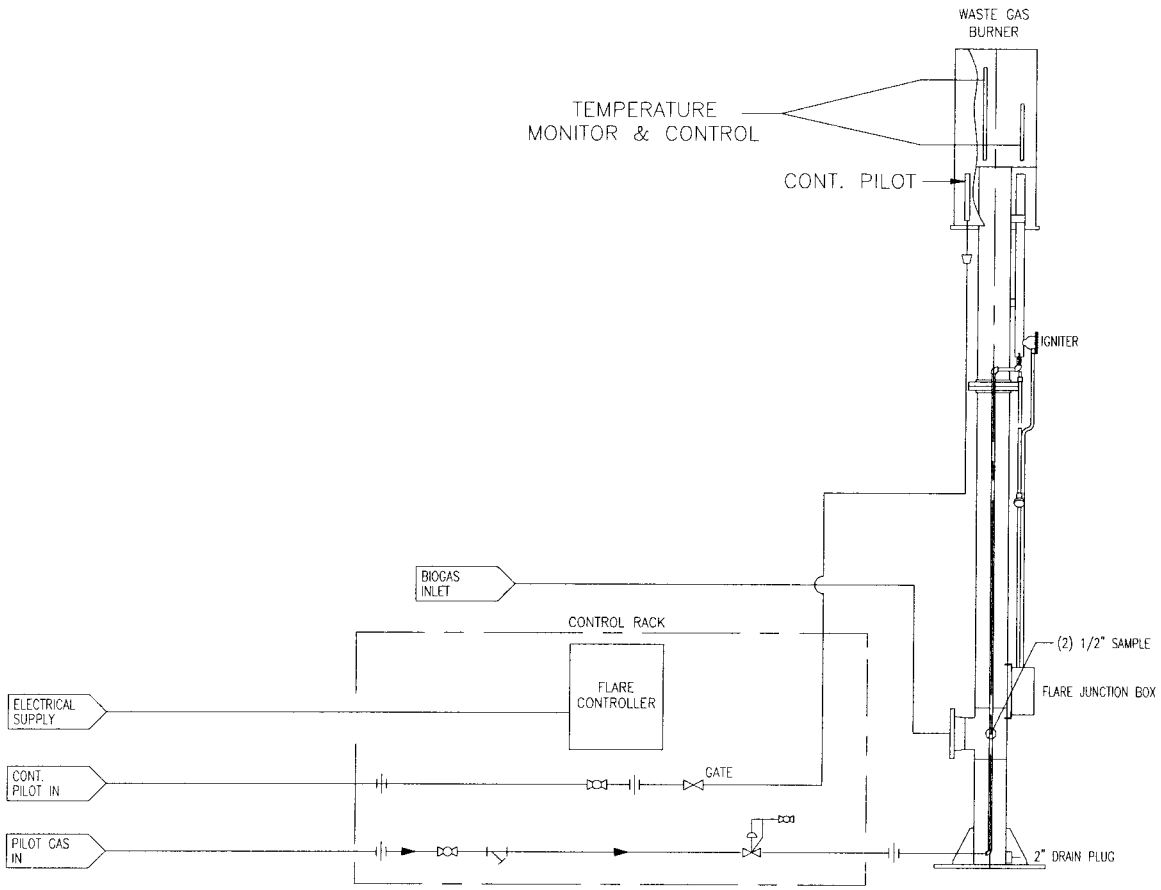
SPECIFICATIONS

Sizes:	2”, 3”, 4”, 6”, 8”, 10”, and 12”
Stack Burner Connection:	ANSI 150lb. RF Flange
Contact Outputs:	
Flame Out:	SPDT, 120 VAC 2 Amp
Re-Start Alarm:	SPDT, 120 VAC 2 Amp
Power Requirements:	120 VAC 5 Amp 60 Hz 220 VAC (option)
Controller:	
Temperature Range:	-20 to 150 degrees F
Enclosure:	Wall Mount NEMA 4 (Optional Nema 4X or 7)
Enclosure Material:	Carbon Steel
Options:	Manual Ignition Remote Manual Ignition Automatic Ignition (Restart Function) Audible Restart Alarm Heater and Thermostat
Stack Materials:	
Top Assembly and Pilot Nozzle:	Stainless Steel
Bottom Stack Assembly:	Carbon Steel (Optional Stainless Steel)
Pilot Gas:	Natural Gas (std) LPG Waste Gas (500 BTU/ Cubic foot Minimum)
Pilot Gas Pressure:	5 to 10 PSIG STD (Lower Pressures available)

SHAND&JURS

PRODUCT DATA SHEET

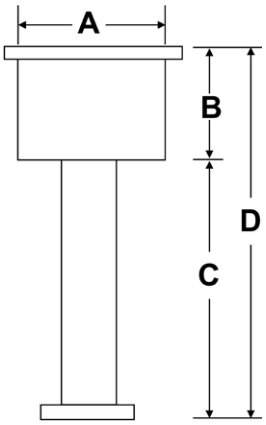
97300
Waste Gas Burner



Stack Dimensions

Size	A	B	C	D
2"	15"	15"	70"	85"
3"	18"	20"	70"	90"
4"	20"	20"	70"	90"
6"	22"	30"	95"	125"
8"	24"	35"	107"	142"
10"	30"	40"	135"	175"
12"	36"	45"	140"	185"

STACK DIMENSIONS (typical)



CAPACITY (FT^3/Hr.)	
Size	**Capacity**
2"	3300
3"	9970
4"	19150
6"	44200
8"	76800
10"	129000
12"	218600

CAPACITY

Flow specified in air at 60° F, 14.7 PSIA, .5" WC pressure drop

5911 Butterfield Road, Hillside, Illinois 60162 Phone: (708) 236-6000 Fax: (708)236-6006
E-mail: sales@ljtechnologies.com http:\\www.ljtechnologies.com

CONTROL OPTIONS

Manual Ignition:

The operator initiates ignition by depressing the push-button on the controller. This causes the igniter to spark, igniting the pilot. Pilot-on is indicated by the flame-on indicator on the controller.

Remote Ignition:

Remote ignition is performed in the same manner as Manual Ignition, but with a remote push-button. The remote push-button is wired to terminals in the controller.

Automatic Ignition:

Automatic Ignition is performed by the system in reaction to a flameout condition. If the pilot switch is set to “Auto” and the system senses a flameout condition, it activates the igniter. The system will continue activating the igniter until a flame on condition is sensed or the auto start time out is reached. If the auto time out occurs prior to flame on the restart alarm is tripped.

Accessories:

A pressure (explosion) relief vent and flame trap should be installed directly at the flare inlet. The pilot gas line should be protected with a flame check.

HOW TO ORDER

97300 - AB - CD - EF - GH

- AB — Pilot Gas
- CD — Unit Size
- CD — Power Source
- CD — Enclosure Rating
- EF — Additional Options
- EF — Blower
- EF — Pilot
- EF — Control

TABLE Ia (A) PILOT GAS

OPTION	DESCRIPTION
0	Natural
1	Propane
2	Bio

TABLE 1b (B) UNIT SIZE

OPTION	DESCRIPTION
2	2"
3	3"
4	4"
5	6"
7	8"
8	10"
9	12"

TABLE IIa (C) POWER SOURCE

OPTION	DESCRIPTION
1	120 VAC, 60Hz
2	220/240 VAC, 50/60Hz

TABLE IIb (D) ENCLOSURE RATING

OPTION	DESCRIPTION
0	NEMA 4 - CS
1	NEMA 7 - CAST STEEL
2	NEMA 4X- SS

TABLE IIIa (E) CONTROL

OPTION	DESCRIPTION
1	LOCAL - MANUAL START
2	Remote Control with NEMA 7 Pressure Switch Included
3	Remote Control (No Pressure Switch Included) Dry Contact

TABLE IIIb (F) PILOT

OPTION	DESCRIPTION
1	Continuous - Manual Start (Table E = 1)
2	Intermittent - Auto Start (Table E = 2 or 3)

TABLE IVa (G) BLOWER

OPTION	DESCRIPTION
0	No Blower - Standard
1	Blower - General Purpose Motor
2	Blower - NEMA 7 Motor

TABLE IVb (H) ADDITIONAL OPTIONS

OPTION	DESCRIPTION
0	None
1	Heater & Thermostat (Mounted within Enclosure)
3	NEMA 7 Spark Generation Enclosure
5	Options 1 and 3 Together

5911 Butterfield Road, Hillside, Illinois 60162 Phone: (708) 236-6000 Fax: (708)236-6006
E-mail: sales@ljtechnologies.com http:\\www.ljtechnologies.com