

Energes High Efficiency Flares

Trailer-mounted high efficiency flare stacks for rapid deployment

APPLICATIONS

- Waste Gas Disposal
- Production Testing
- General Gas Flaring

BENEFITS:

- Efficient disposal of waste gas.
- Enhanced monitoring capability ensuring minimum cold venting.
- Reliable combustion and gas disposal.
- Safe to operate
- Quick to install
- Easy to relocate.
- Built in scrubber reduces potential of black smoke

FEATURES:

- Easy to install
- Safe Hydraulic Erection
- Safe and structurally sound in High winds up to 110 mph
- Built-in knockout vessel at base of flare
- Dual Redundant Ignition System
- Monitored ignition system automatic reigniting.
- Able to connect to remote surveillance system (Customer Desktop)
- Trailer mounted portability
- High efficiency 98%+ combustion.

The Energes portable gas flare is designed for quick installation and easy deployment. The flare comes in a range of sizes to fit the various needs for flared volumes.

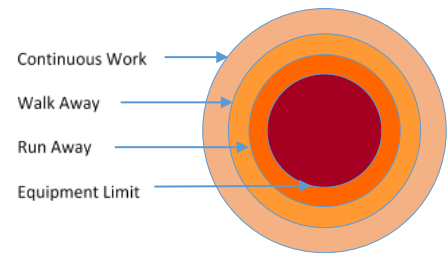
The flare is erected by a hydraulic ram that is powered by a 12 V hydraulic system. The flare structure is essentially a tripod design that incorporates tension lines to ensure stability in winds of up to 110 mph.

The ignition system has redundant back up. The primary ignition is an electric spark pilot that is equipped with a thermal relay that is energized to prove ignition at 300°F and above. This relay is connected to a logic panel that monitors the pilot ignition source is running at all times. If the pilot is blown out the relay can signal to a SCADA system to alert operators remotely the flare is out while the logic system will attempt to reignite the flare pilot continuously.

The backup ignition system is an independent shot tube which can be manually controlled locally or by remote. This is a combustion mixture tube supplied by propane (or other reliable gas source) consuming gas only at the time of ignition. This has a back flash protector installed and operates by shooting a pre ignited gas air mixture up a tube to ignite the flare. The burn efficiency of the flare is 98%+ for gas mixtures 1000BTU and above.



Head Radiation Boundaries



Flare Detail			
Main Burner Size	4"	6"	12"
Auxiliary Burner Size	2"	2" + 2"	2" + 4"
Elevated Height	60 ft	64ft	60ft / 90ft (option)
Elevation Method	Electric Powered Hydraulic Ram		
Maximum Gas Throughput	24 MMSCF/D	42 MMSCF/D	80 MMSCF/D
Ignition	SP8 PTC	Logic controlled spark ignition with thermo couple control connectable to remote surveillance system	
	ACL 400	Shot tube back-up igniter	
Surveillance	Remote monitoring via PLC BGAN Satellite connection to internet		

Minimum Safe Distance at flow rates specified (FT)				
Gas Vol MMSCF/D	Equipment Operation	Run Clear	Walk Clear	Continuous Work Area
1	15	18	21	36
5	33	40	47	81
7.5	40	49	57	99
10	47	57	66	114
15	57	70	81	140
20	66	81	93	161
25	74	90	104	180
30	81	99	114	197
50	104	127	147	255