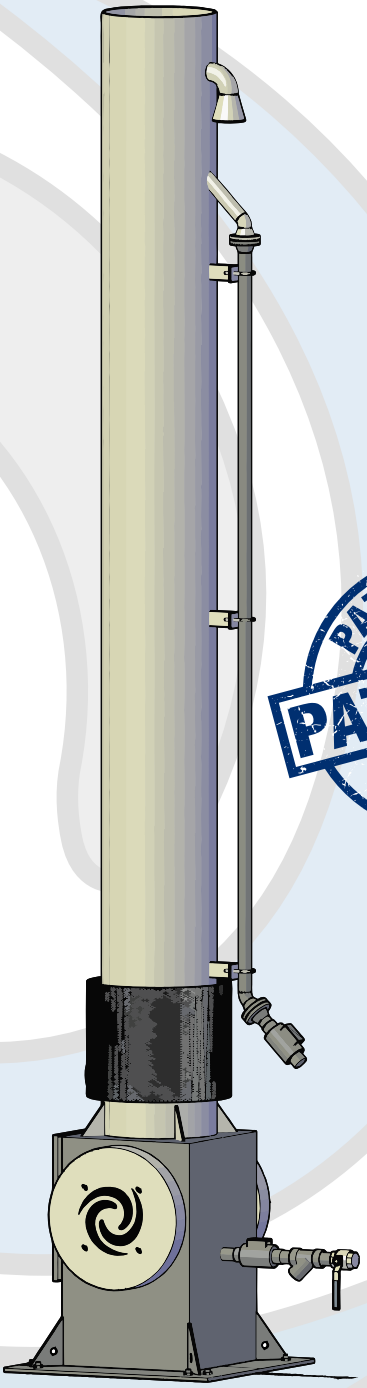
Rush Industries
A Division of ClearRushCo.

BGR HP/LP High Volume Vapour Combustor

PATENTED

Model: BGR - 24HP/LP



The Patented BGR-24HP/LP is a highly versatile, low cost vapour combustor designed to destruct volatile organic compounds (VOCs) and BTEXs produced from casing gas, oil storage tanks, de-hys, produced condensate and water storage tanks, or depressuring vessels and pipelines.

The high pressure line on the outside of the fire tube provides high pressure blow down capabilities. Interchangeable flare tips allow for a wide range of flow rates in compliance with NSPS Subpart A flare velocity requirements.

The patented high efficiency burner inside the combustor chamber provides low pressure continuous burning capabilities, high combustion efficiency, low emissions, reduced odours, no visible flame, and increased flame stability with excellent turndown ratios for low pressure applications.

(See product specification sheet on reverse)

Approvals

EPA NSPS 40 CFR 60 Subpart 0000 and AER Directive 60 & Saskatchewan S 20

BMS Controller CSA approved for Class I Div 2 location

CSA B149.3-25, C22.2 No 199-M89

E60730-1-2013, ANSI Z21.20-2014

CAN/CSA C22.2 No. 60730-2-5-2014 Compliant, meets NFPA standards

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Canada

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Combustor Features
Patented high volume combustion device
1,700,000 scf/d HP flow rate capacity or 48138 m^3/d
50,000 scf/d LP flow rate capacity or 1415 m^3/d
Meets or exceeds the AER Directive 60 & Saskatchewan S 20 regulations
High pressure destruction efficiency greater than 98%
Low pressure destruction efficiency greater than 99.9%
LP operating pressures from 0.09 psi (1.5 oz/in^2) to 2 psi (24 oz/in^2)
HP operating pressures from 0 psi to 120 psi
24" x 20' high stainless steel fire tube
Excellent turndown ratio
Heat shield for operator's safety

Controller Features
CSA approved ACL3200 or CSC400 Ignition Control System (meets CSA B149.3-25)
Monitors and controls ignition for LP combustor and HP flare
Remote Stop and Start
Auto re-light, continuous trial for ignition
Solar operated 12/24VDC (optional Rush Power available)
Thermocouple and thermowell for temperature sensing and monitoring (optional)
Data logging & acquisition capabilities
Modbus communication capabilities built in

Burner Features
Patented burner assembly
Full stainless steel burner
Air and fuel assist capabilities
Extremely stable at wide range of flow rates, down to 1.5oz/in^2
No flame lift-off or impingement

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