



Leading The Way In Burner Technology

INVERTERJET 1000/HME

HIGH MODULATING GAS BURNER



FOR TECHNICAL HELP / ADVICE
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BURNERTECH ENGINEERS LIMITED
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INVERTERJET 1000/HME

HIGH MODULATING GAS BURNER

Heat output 1000KW

Pre-mix low NOx

Low CO: < 10ppm

High modulation 10:1

Precise control of combustion

Electronic control

Our Inverterjet 1000/HME is composed of precision machined components.

The fully patented burner head is a special metallic fibre which has an inverted flame that simulates a standard gas burner but has the advantage of forward flame, yet is fully premixed and consequently gives very clean and stable combustion.

The mixing system is electronic which allows for control of the gas and air mix throughout the modulation range.

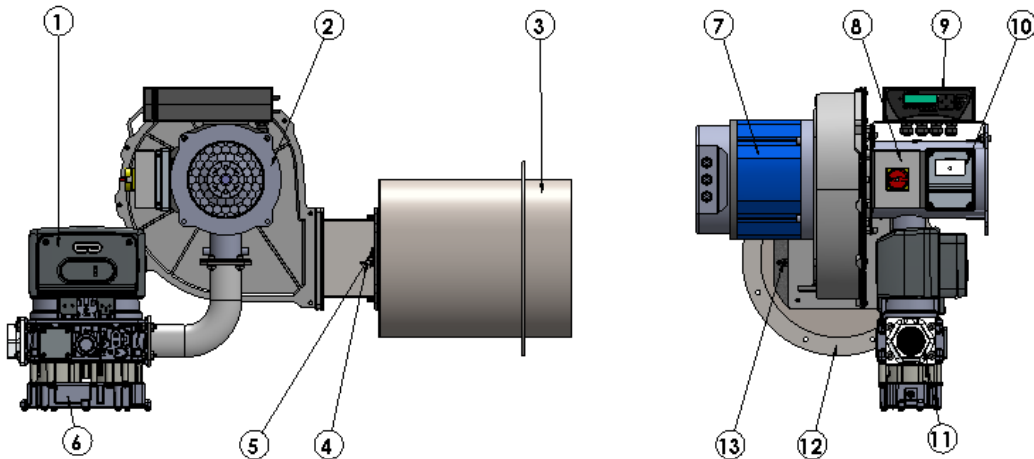
The microprocessor based burner controller is made for fan assisted, direct burner ignition applications. The control operates on 230/110 volts, 50-60 Hz and drives the gas valve and DC-fan. Normal heat demand is given by a 230 /110 VAC switch input. Modulation can be controlled by incorporating N.T.C sensors or by external 0 - 10V/4 - 20mA signal.

The Controller has the inputs and outputs to fully control a boiler and water heater including weather compensation and modulation outputs for up to 2 pumps. It also has a full cascade and sequence control for up to eight Boilers.

A special test mode controlled through the communication port of the controller can be used to service and initially set up the burner.

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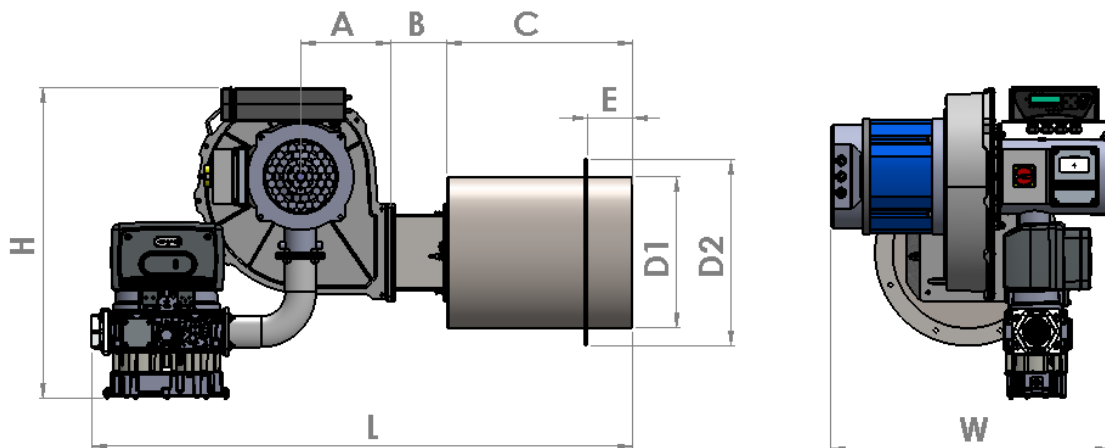
Main Components



- 1 Electronic Module 2" Gas Valve
- 2 Mixer Unit
- 3 Inverterjet Burner Head
- 4 Ignition Electrode
- 5 Viewing Window
- 6 Gas Valve 2" FCV
- 7 Fan Housing

- 8 Isolator Switch
- 9 Burner Management Unit
- 10 ASM Dust Filter
- 11 2" BSPP Flange
- 12 Burner Mounting Flange
- 13 Ionization Probe

Dimensions and Weight



MODEL	A	B	C	D1	D2	E	H	L	W	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
Inverterjet 1000/HME	205	123	420	Ø340	Ø420	102	700	1220	632	84.5

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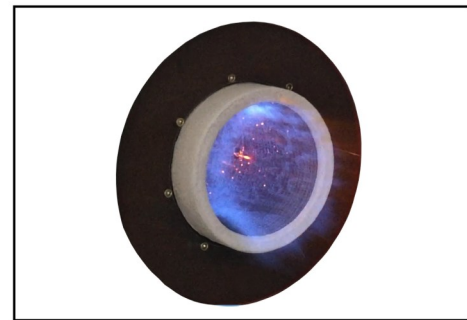


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MODEL	INVERTERJET 1000/HME
Type	Pre-Mix Burner
Fuel	Natural Gas
Power Min-Max [kW]	110– 1100
High Modulation	10 : 1
Fan Nominal Voltage Range [VAC]	380..480
Frequency [Hz]	50/60
Phase	3 ~
Current Draw Max [A]	4.8
Gas Connection	DN50
Gas Pressure Min - Max [mbar]	25 - 300
NOx Level [ppm]	<10
CO [ppm]	<10



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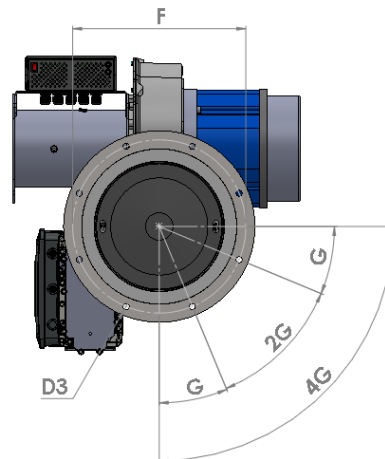


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Mounting Dimensions

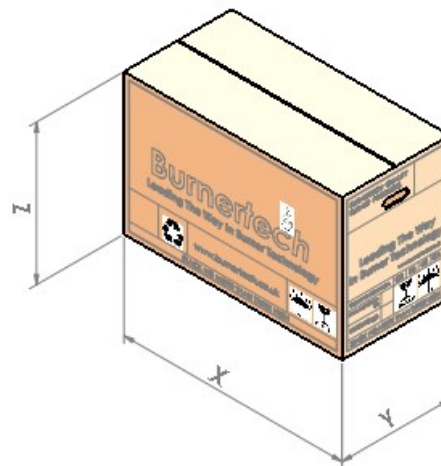


Model	F	G	2G	4G	D3
	mm	deg.	deg.	deg.	mm
Inverterjet 1000/HME	380	22.5°	45°	90°	10

Packaging

Supplied with:

- Mounting Flange Gasket
- User Manual



Model	X	Y	Z	Qty / Box	Weight (Full Box)
	mm	mm	mm		kg
Inverterjet 1000/HME + Packing Box	1300	800	900	1	159.5

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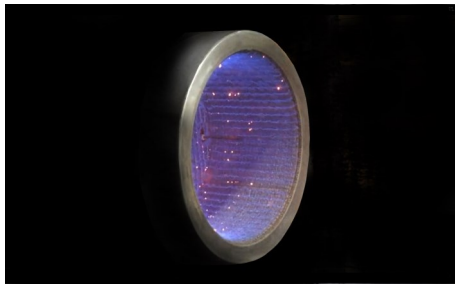
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Inverterjet 1000/HME running at high thermal load condition.

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