SUBMITTAL DATA



Bistro IO-100 SERIES

HIGH EFFICIENCY INFRARED PATIO HEATER FOR OUTDOOR INSTALLATION AND HIGH INTENSITY HEATER FOR NON-RESIDENTIAL INDOOR USE

PROJECT:			
ENGINEER:			
CONTRACTOR:			
DISTRIBUTOR:			
INFRASAVE MODEL #:			
FUEL:	N.G.	L.P.G.	
APPROVED BY:			
DATE:			
APPROVAL #:			

Bistro IO-100 Series is certified by CSA International to:

- ANSI Z83.26 / CSA 2.37 Standard for Gas-Fired Outdoor Infrared Patio Heaters
- ANSI Z83.19b / CSA 2.35b Standard for Gas-Fired High-Intensity Infrared Heaters





NOTICE:

Infrasave reserves the right to make changes to equipment and specifications without obligation or notification.

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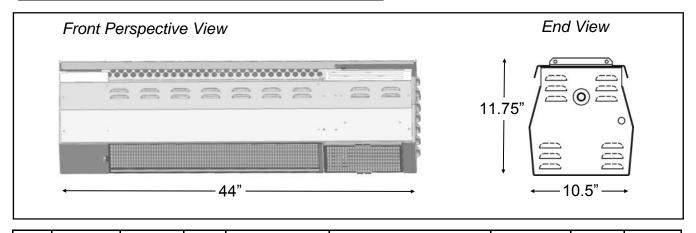
www.Infrasave.com

APPROVALS:

The IO-100 Series heater has been tested and approved by CSA International:

- For Outdoor Use: ANSI Z83.26-CSA 2.37 Gas-fired Outdoor Infrared Patio Heaters
- For Indoor Use: ANSI Z83 19b-CSA 2 35b Gas-fired High-Intensity Infrared Heaters

DIMENSIONS / SPECIFICATIONS IO-100 SERIES

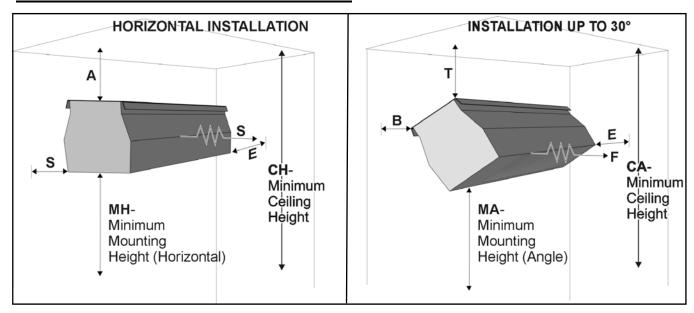


				FIN	IISH	1/2" GAS INL	ET PIPE SIZE			
JOB QTY	MODEL NO.	INPUT BTUH	GAS	HIGH TEMP. BLACK	MARINE STAIN- LESS	MINIMUM GAS LINE PRESSURE	MAXIMUM GAS LINE PRESSURE	MANIFOLD PRESSURE	ELECT- RICAL	WEIGHT (LBS.)
	IO-135-N	35,000	NAT			6" W.C.	14" W.C.	5" W.C.	\ (O.) T	32
	IO-135-L	35,000	LP			11" W.C.	14" W.C.	10" W.C.	VOLT- AGE 24VAC	32
	IO-150-N	50,000	NAT			6" W.C.	14" W.C.	5" W.C.	CUR-	44
	IO-150-L	50,000	LP			11" W.C.	14" W.C.	10" W.C.	RENT AMPS 40VA*	44
	IO-152-N	50,000/ 36,500	NAT			6" W.C.	14" W.C.	5" W.C.	70 (7)	44

^{*} Transformer required for a multiple heater installation:

- The first heater requires 40 VA and each additional heater 20 VA
- The sum total will be the required rating of the system or zone Transformer
- If total VA required is between transformer rating sizes, select the next higher VA rated transformer.

MINIMUM CLEARANCE TO COMBUSTIBLES



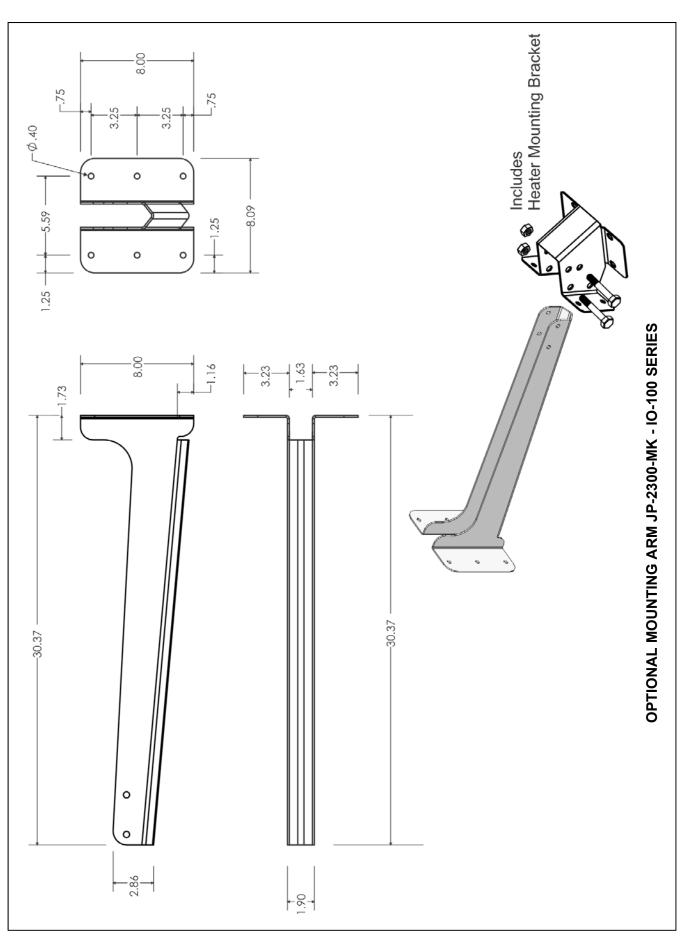
Note: Ensure mounting height in any location is sufficient to prevent patrons from coming in contact with heater, and clearance to combustible material is maintained.

OTV Applied	Application	MODEL	Ends	Under HORIZONTAL				UP TO MAXIMUM 30° ANGLE					
QTY	Application		E	U	Α	S	МН	СН	Т	В	F	MA	CA
	OUTDOOR	IO-135	14"	-	13"	14"	108"	133"	17"	9"	60"	102"	133"
	OUTDOOR	IO-150	14"	-	16"	19"	120"	148"	20"	8"	62"	114"	148"
	OUTDOOR	IO-152	14"	-	16"	19"	120"	148"	20"	8"	62"	114"	148"
	INDOOR	IO-135	14"	45"	18"	18"	108"	138"	20"	11"	60"	102"	136"
	INDOOR	IO-150	14"	60"	21"	23"	120"	153"	25"	10"	62"	114"	153"

Do not store or place anything directly under heater

Notes:

- The clearance to combustible material represents the minimum distance that must be maintained between the outer heater surface and a nearby surface. The stated clearance to combustibles represents a surface temperature of: Indoor = 90F° (50C°) above room temperature; Outdoor = 117F° (65C°) above ambient temperature.
- 2. <u>It is the installer's responsibility to ensure that building materials with a low heat tolerance which may degrade at lower temperatures are protected to prevent degradation</u>. Examples of low heat tolerance materials include awnings, vinyl siding, fabrics, some plastics, filmy materials, etc.



Bistro IO-100 SERIES COMPONENT DESCRIPTION

10 405 0 10 450		PATIO CONTROL PANEL 24 VOLT									
IO-135 & IO-150 SINGLE-STAGE CONTROL		WIRELESS REMOTE CONTROL									
CONTROL		ThermoControl Plus: TC+1 TC+2 TC+4									
		JM-0201-TS Single Switch Gang 2-Stage Control - 1 Zone - 1 to 4 Heaters									
IO-152 2-STAGE CONTROL		JM-0202-TS Double Switch Gang 2-Stage Control - 2 Zones - 2 to 8 Heaters									
CONTROL		JM-0203-TS Triple Switch Gang 2-Stage Control - 3 Zones - 3 to 12 Heaters									
IGNITION		SPARK IGNITED PILOT; DIRECT SPARK MODULE: 3 TRIAL IGNITION SE- QUENCE; AUTOMATIC SOFT LOCK-OUT WITH AUTO RESET AFTER 30 MINUTES FOR IGNITION RETRIAL									
IO-135 & IO-150 COMBINATION		SINGLE-STAGE NATURAL GAS: 5" W.C. MANIFOLD PRESSURE									
GAS VALVE		SINGLE-STAGE PROPANE: 10" W.C. MANIFOLD PRESSURE									
IO-152 COMBINATION GAS VALVE		TWO-STAGE NATURAL GAS ONLY: 5" / 3.0" W.C. MANIFOLD PRESSURE									
WIND SCREEN		ALUMINUM EGG-CRATE									
CABINET		409 STAINLESS STEEL WITH BLACK POWDER COAT FINISH									
CABINET		MARINE GRADE 316 STAINLESS STEEL									
VENTURI TUBE		ALUMINIZED STEEL ASSEMBLED TO BURNER HOUSING									
BURNER		SINGLE ATMOSPHERIC BURNER; 3-TRIAL SPARK IGNITED PILOT WITH SOFT LOCKOUT (30 MINUTE RETRIAL CYCLE); ELECTRONIC FLAME MONITORING / MAINTENANCE SYSTEM									
CERAMIC TILE		SCHWANK EFFECT TILE 14/4 WITH SURFACE INDENTATIONS TO IN- CREASE EMITTING SURFACE AREA, AND HARD FINISHED EDGES									
CERAMIC TILE RETAINERS		STAINLESS STEEL									
COMBUSTION		TILE SURFACE TEMPERATURE: 1,760°F [960°C] "COLD STATE" COMBUSTION TRANSFERS HEAT INSTANTANEOUSLY TO TILE SURFACE AND MINIMIZES EMISSIONS:									
		CO: 10 – 48 ppm, air free [11 – 50 mg/kWh]									
		NOx: 9 – 14 ppm, air free [15 – 25 mg/kWh]									