

BEACON MORRIS MODEL "BTU" & "BRU" LOW PROFILE TUBULAR DESIGN GAS FIRED UNIT HEATER



BLPS-2

DESCRIPTION

The Beacon Morris Model "BTU" and "BRU" Low Profile gas-fired unit heaters offer a highly efficient, extremely durable alternative to the traditional clam shell design. These propeller type units combine the latest tubular heat exchanger and inshot burner technology with the quality and reliability you have come to know from Beacon Morris. Units are available in sizes 30 to 90 MBH, and offer a low profile design.

RESIDENTIAL GARAGE CERTIFIED

The Beacon Morris Model "BRU" unit heater conforms with the latest CSA International certification standards for installations in residential garages. Design certification and our low profile design makes the model "BRU" unit ideal for residential garage, commercial and industrial installations.

TUBULAR HEAT EXCHANGER

The Beacon Morris tubular heat exchanger has been designed to provide maximum and uniform heat transfer. The low pressure drop associated with this design enables heated air to be evenly distributed to the conditioned space. This curved, non-welded serpentine design experiences less thermally induced stress making it highly durable for significantly longer service life. All Beacon Morris tubular heat exchangers are constructed of heavy duty 20-gauge aluminized steel.

HOT SURFACE PILOT IGNITION

Beacon Morris Models "BTU" and "BRU" units utilize a hot surface pilot ignition system which features a ceramic composite hot surface element. This highly reliable and efficient ignition system does not permit pilot gas to flow unless the hot surface element is present and powered. The low voltage hot surface element lights the pilot quickly for fast heat delivery.

VENTING

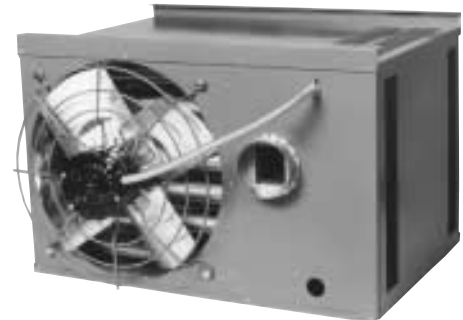
Beacon Morris Low Profile Model "BTU" and "BRU" unit heaters are CSA International certified in accordance with categories I and III venting requirements. Category I enables the unit to be vented vertically with either single or double wall venting material. Category III allows for horizontal venting utilizing single wall venting material. This venting flexibility of the Model "BRU" unit heater makes installation easier and more cost effective by allowing the installer to utilize existing venting components.

STANDARD FEATURES

- Individually adjustable and removable louvers
- 20-gauge steel jacket with baked enamel finish.
- 120/1/60 supply voltage
- Easy access control panel
- Power vented
- Single stage combination gas valve
- 120/24 volt control transformer
- 115/1/60 volt fan motor with internal overload protection
- Right hand control access. Field convertible to left hand access.
- 10 year heat exchanger, flue collector and burner warranty.



Model "BRU"



Model "BTU"

(Model "BRU" unit includes OSHA type fan guard)



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PROJECT: _____

UNIT TAG: _____

BTU/BRU LOW PROFILE TUBULAR DESIGN PERFORMANCE AND DIMENSIONAL DATA

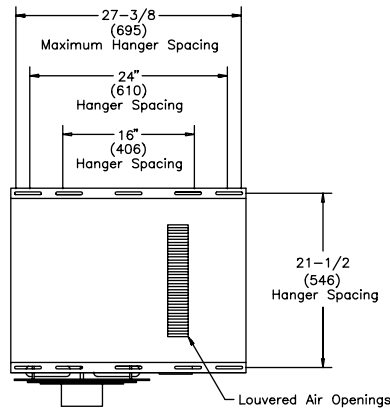


Unit Size	30	45	60	75	New 90
PERFORMANCE DATA†					
Input - BTU/Hr. (kW)	30,000 (8.8)	45,000 (13.2)	60,000 (17.6)	75,000 (22.0)	90,000 (26.4)
Output - BTU/Hr. (kW)	24,300 (7.1)	36,450 (10.7)	48,600 (14.2)	60,750 (17.8)	72,900 (21.4)
Thermal Efficiency (%)	81	81	81	81	81
Free Air Delivery - CFM (cu. m/s)	500 (0.236)	750 (0.355)	1,000 (0.473)	1,250 (0.591)	1,400 (0.70)
Air Temperature Rise - Deg. F (Deg. C)	45 (25)	45 (25)	45 (25)	45 (25)	45 (25)
Full Load Amps at 120V	4.9	4.9	5.6	5.6	6.5
MOTOR DATA:					
Motor HP	1/20	1/20	1/20	1/20	1/20
Motor (kW)	(0.037)	(0.037)	(0.037)	(0.037)	(0.037)
Motor Type	SP	SP	SP	SP	Sp
R.P.M.	1650	1650	1050	1050	1050
Motor Amps @ 115V	1.9	1.9	2.6	2.6	2.6
DIMENSIONAL DATA - inches (mm)					
"A" Jacket Height	12 (305)	12 (305)	17-3/4 (451)	17-3/4 (451)	17-3/4 (451)
"B" Overall Height	13 (330)	13 (330)	18-3/4 (476)	18-3/4 (476)	18-3/4 (476)
"C" Overall Depth	25-1/2 (648)	25-1/2 (648)	26-3/4 (679)	26-3/4 (679)	26-3/4 (679)
"Center Line" Height of Flue*	7-1/4 (184)	7-1/4 (184)	10-1/2 (267)	10-1/2 (267)	10-1/2 (276)
"Center Line" Electric Connection	10-1/4 (260)	10-1/4 (260)	16 (406)	16 (406)	16 (406)
"F" Discharge Opening Height	10-1/2 (267)	10-1/2 (267)	16-1/4 (413)	16-1/4 (413)	16-1/4 (413)
"G" Fan Diameter-in	10	10	16	16	16
Unit Weight - lbs. (kgs)	62 (28)	68 (31)	87 (39)	93 (42)	95 (43)
Shipping Weight - lbs. (kgs)	72 (33)	78 (35)	102 (46)	108 (49)	110 (50)

† Ratings shown are for unit installations at elevations between 0 and 2,000 ft (0 to 610m). For unit installations in U.S.A. above 2,000 ft. (610m), the unit input must be derated 4% for each 1,000 ft. (305m) above sea level; refer to local codes, or in absence of local codes, refer to the National Fuel Gas Code, ANSI Standard Z223.1-1999 (N.F.P.A. No. 54), or the latest edition of.

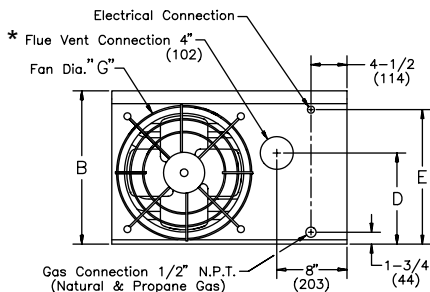
For installations in Canada, any reference to deration at altitudes in excess of 2,000 ft. (610m) are to be ignored. At altitudes of 2,000 ft. to 4,500 ft. (610 to 1372m), the unit must be derated to 90% of the normal altitude rating, and be so marked in accordance with the CSA certification.

* Candian units include a vent cap.



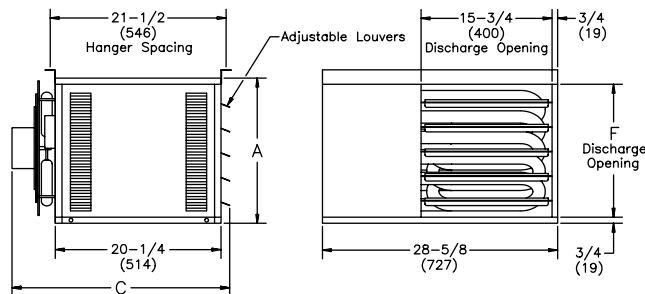
Top View

D4771



Rear View

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Side View

Front View