

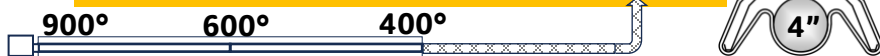
RADIANT HEATING SYSTEMS COMPARISON

COMBUSTION RESEARCH CORPORATION OFFERS FOUR DIFFERENT TYPES OF RADIANT HEATING SYSTEMS EACH DESIGNED FOR A SPECIFIC PURPOSE OR MARKET.

(1) PRESSURE SYSTEMS – OMEGA II

“CONCENTRATED INFRARED RAYS”
85% COMBUSTION EFFICIENCY

DESIGNED FOR LOCALIZED CONCENTRATED HEATING



(A) 16 GAUGE THICK TUBE SYSTEM

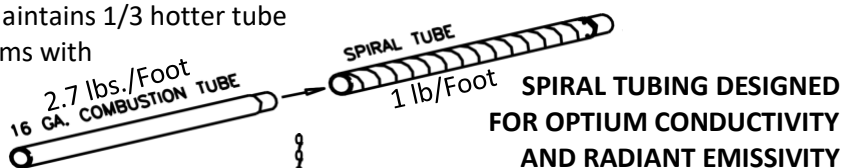
- **Heat Distribution:** Utilizes a thicker tube to serve as a heat exchanger, which absorbs more heat near the burner. This results in higher temperatures at the front end of the tube, making it ideal when more heat is required in that area.
- **Infrared Efficiency:** Tube temperatures above 400° are crucial for emitting strong infrared rays that efficiently heat and penetrate objects and surfaces, enhancing the overall heating effectiveness.



LEGEND	
	75K BTU OMEGA II BURNER
	75K BTU REFLECT-O-RAY BURNER
	1/6 HP VACUUM EXHAUSTER
	16-GAUGE BLAST TUBE
	22-GAUGE SPIRAL TUBE
	20' HEAT ADJUSTULATOR
	VENTING

B) 16 GAUGE BLAST TUBE WITH UNIQUE 22-GAUGE ALUMINIZED SPIRAL TUBING

Temperature Maintenance: This combination system maintains 1/3 hotter tube temperatures further down the tube compared to systems with only 18 or 16-gauge tubing, enhancing the efficiency of heat distribution.



(2) VACUUM SYSTEMS - REFLECT-O-RAY

UNIFORM – LOW INTENSITY
92% COMBUSTION EFFICIENCY

DESIGNED FOR EVEN FLOOR TEMPERATURES



A) VACUUM SYSTEM WITH NO HEAT ADJUSTULATOR TUBE

In-Built Safety Features of Vacuum Systems:

- **Air-Flow Safety Switch:** If the tube is compromised or breaks, the air-flow safety switch within the burner automatically activates to shut down the system. This crucial safety feature is designed to prevent any hazardous situations by immediately ceasing operation.
- **High Limit Safety Switch:** Additionally, a high-limit safety switch is integrated within the system, providing an extra layer of protection by detecting and responding to excessively high temperatures.
- **Exclusive to Vacuum Systems:** These safety features are unique to the negative air-flow vacuum systems, making them particularly suitable for environments where gas fumes could pose a risk.
- **Recommendation:** In scenarios where there is a potential danger from gas fumes, the negative vacuum system is highly recommended due to its enhanced safety mechanisms.



B) VACUUM SYSTEM WITH HEAT ADJUSTULATOR TUBE

(B) Vacuum System with 20' Heat Adjustulator Tube

- **Temperature Regulation:** The insulated Heat Adjustulator effectively reduces high tube temperatures, lowering them from 850° to 650° at the front end of the system. This adjustment reserves hotter temperatures for release further down the spiral tubing.
- **Controlled Temperature Reduction:** Specifically, temperatures on the blast tube are reduced by 300°, leading to more comfortable and uniform heating throughout the space.
- **Even Floor Temperatures:** The system maintains a narrow range of tube temperatures from 650° to 400°, resulting in extremely even floor temperatures. This feature ensures consistent warmth across different areas, enhancing comfort and efficiency.

Disclaimer: This information is not official company literature but is based on independent opinions and observations only. It is provided for educational purposes only.

Enviro-Smart Inc.
Real Energy Reduction Solutions

enviromartinc.com — (403) 892-6860