

# ASHRAE TYPE c - Information Sheet

## Overview

ASHRAE Type c Infrared Heater.

**Positive Pressure Heater** operate individually in a unique run of steel tube that carries the combustion gases via a power inducer.

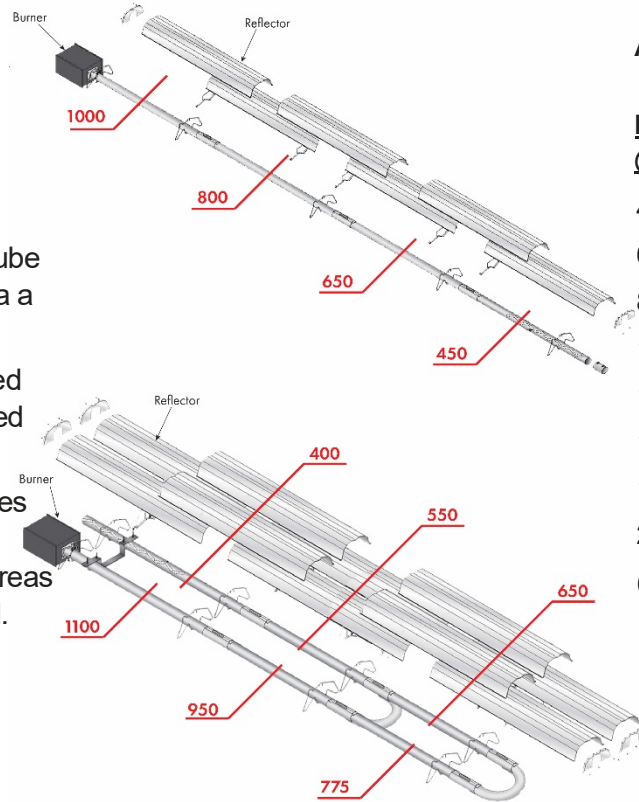
**Two or more burners** may be vented together as long as they are controlled via the same controls..

**High initial radiant pipe** temperatures overcome extreme temperature differentials in addition to heaters in areas where individual controls are required.

Individual burner styles :

- Modulating
- Harsh Environment
- Specification Grade
- Commodity

(Taken from RG literature)



ASHRAE Type c

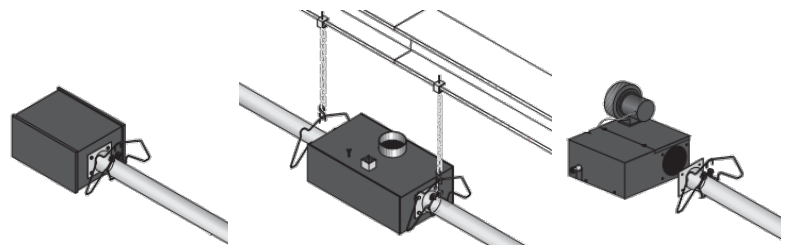
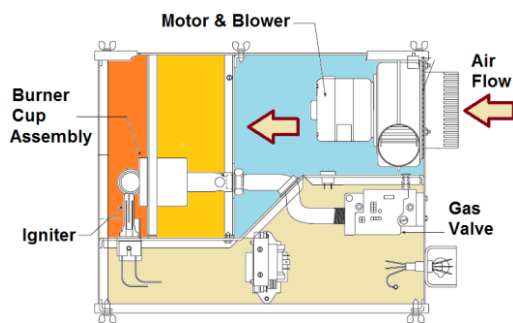
INPUT @ 5'	TEMP
40 Mbh	550°F
60 Mbh	750°F
80 Mbh	850°F
100 Mbh	950°F
125 Mbh	1000°F
150 Mbh	1050°F
175 Mbh	1100°F
200 Mbh	1100°F

(Approx. Temps)

EXAMPLE OF AN ASHRAE Type c :

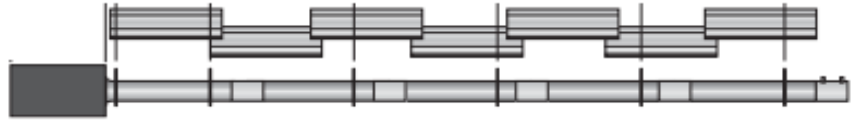
100 Mbh 30' unit and 200 Mbh 60' unit depicted above  
(With approximate degrading pipe temperatures shown)

## Burner Information



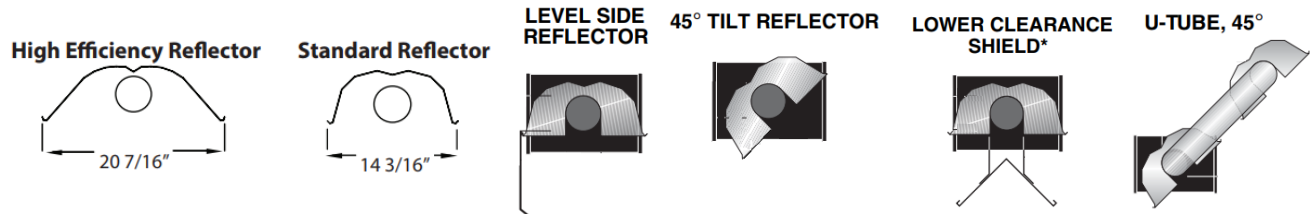
PRODUCT ASSEMBLY GRID	SELECT (MARK)	INFRARED SELECTION TABLE			
		Product Assembly: STEPS # 1 - # 5			
STEP #1	SELECT AS REQ'D	ASHRAE / INDUSTRY TYPE	DESCRIPTION OF HEATER SELECTED		
BURNER TYPE		<input type="checkbox"/> TYPE b	<input type="checkbox"/> TYPE b - SINGLE STAGE	<input type="checkbox"/> TYPE b - MODULATING VIA MOTOR SPEED	
		<input type="checkbox"/> TYPE b/c	<input type="checkbox"/> TYPE b/c - UNITARY	<input type="checkbox"/> TYPE b/c - MULTI-BURNER	
		<input type="checkbox"/> TYPE c	<input type="checkbox"/> HARSH ENVIRONMENT	<input type="checkbox"/> COMMODITY	<input type="checkbox"/> MODULATING
		<input type="checkbox"/> SPECIFICATION GRADE	<input type="checkbox"/> SINGLE STAGE	<input type="checkbox"/> TWO STAGE	

## ■ Tubing Material - Pipe



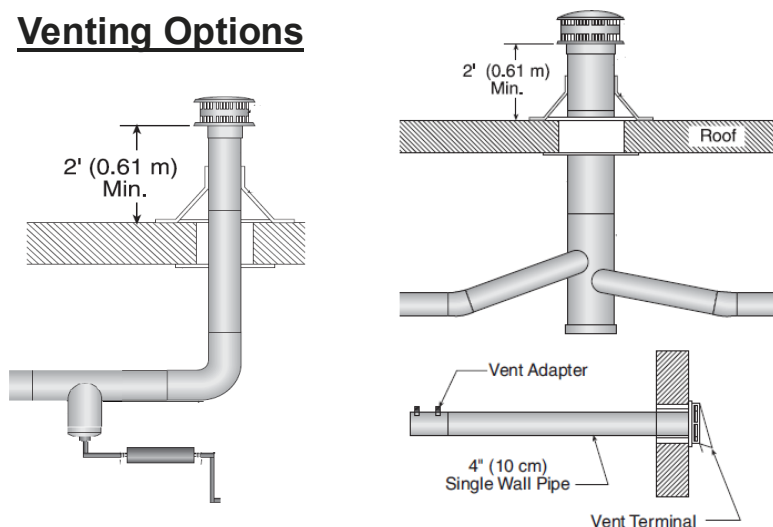
STEP #2		RADIANT PIPE	TAIL PIPE	TUBING MATERIAL	EMISSIVITY RATING	CORROSION RESISTANCE
TUBING MATERIAL AND QUALITY	SELECT AS REQ'D	<input type="checkbox"/>		HOT ROLLED STEEL	.80	NONE
		<input type="checkbox"/>	<input type="checkbox"/>	HEAT TREATED ALUM	.80	RESISTANT
		<input type="checkbox"/>	<input type="checkbox"/>	PORCELAIN COATED	.90	HIGHEST RESISTANCE
		<input type="checkbox"/>	<input type="checkbox"/>	SCHED. '40' STEEL	.93	LOW
		STAINLESS STEEL IS NOT RECOMMENDED AS A HEAT EXCHANGER BECAUSE OF ITS INHERENT LOW EMISSIVITY				

## ■ Reflector Options

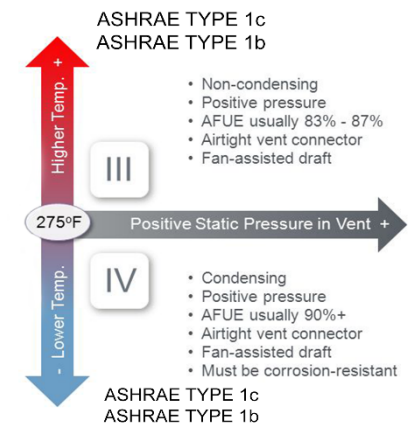


STEP #3		REFLECTOR		REFLECTOR ACCESSORIES	
REFLECTOR MATERIAL AND ACCESSORIES	SELECT AS REQ'D	STANDARD DESIGN	HIGH EFFICIENCY DESIGN		
		MAX 'IF' 12 (8 SURFACES)	MAX 'IF' 15 (12 SURFACES)	<input type="checkbox"/> TILT AT 45°	<input type="checkbox"/> UNIVERSAL SHIELD
		<input type="checkbox"/> ALUMINUM <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> ALUMINUM	<input type="checkbox"/> SIDE SHIELD	<input type="checkbox"/> LOW CLEARANCE SHIELD
				<input type="checkbox"/> BARRIER SHIELD	<input type="checkbox"/> UNIVERSAL SHIELD WITH HOLES

## ■ Venting Options



### NFPA 54 Vent Categories (Gas)



STEP #4		* VENTING		VENTING ACCESSORIES	
* VENTING MATERIAL AND ACCESSORIES	SELECT AS REQ'D	NON CONDENSING DESIGN	CONDENSING DESIGN		
		CATEGORY III		CATEGORY IV	
		<input type="checkbox"/> INFRARED TYPE b	<input type="checkbox"/> INFRARED TYPE b	<input type="checkbox"/> NEUTRALIZATION SYSTEM	<input type="checkbox"/> HIGH WIND VENT HOOD
		<input type="checkbox"/> INFRARED TYPE b/c	<input type="checkbox"/> INFRARED TYPE b/c	<input type="checkbox"/> TJERNLUND VENT HOOD	<input type="checkbox"/> GOOSE NECK ON ROOF
<input type="checkbox"/> INFRARED TYPE c	<input type="checkbox"/> INFRARED TYPE c	<input type="checkbox"/> BIRDSCREEN @ DISCHARGE	<input type="checkbox"/> HIGH TEMP CAULK		