

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

REZNOR®

Hanger Kit Option CK11

Installation Form RZ-NA I-VR-HK (Version A.1)
Obsoletes Installation Form RZ-NA I-VR-HK (Version A)

APPLIES TO:

Model VR

Description

Option CK11, P/N 205402, includes:

Qty	Description	P/N
1	50' long chain (200-lb working load)	120703
22	S Hooks (for tube suspension points*)	116034

* The four "S" hooks for the burner/control box are included in the burner/control box hardware package.

Suspension Requirements

FIGURE 1 - Suspension Dimensions and Hanging Arrangement of the Burner/Control Box and attached Combustion Chamber Tube

When installed, these tubular radiant heaters must be able to expand, must be level, and must be restricted from too much lateral sway. The optional hanger kit includes 50' of chain (rated for 200 lbs) and "S" hooks. The chain must be cut to length. A minimum of 12" (305mm) total of chain, "S" hooks, and/or turnbuckle length is required between the tubes and the structure suspension points.

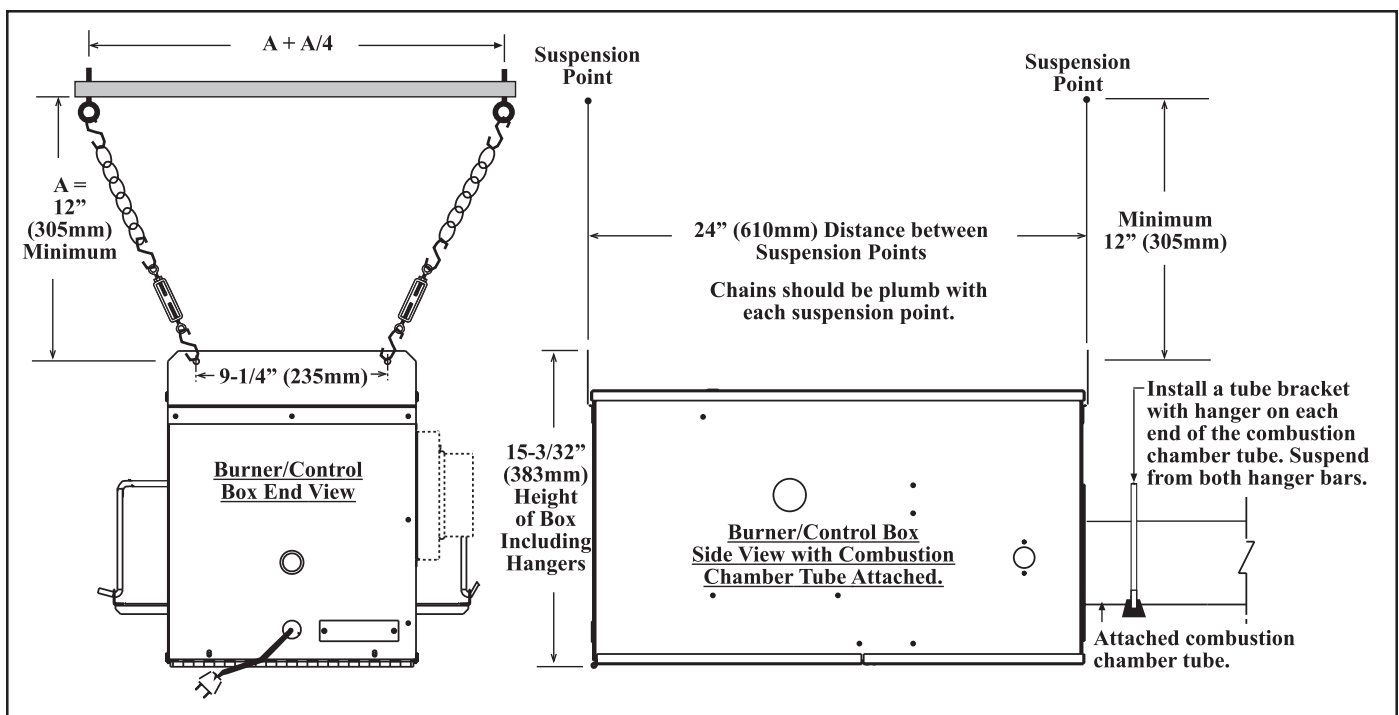
The burner box has four suspension points. Each straight tube must have at least one suspension point. Model VR heaters are designed so that the tube suspension point location can be adjusted slightly to adapt to the building structure. A straight tube adjacent downstream of an "L" or "U" tube requires two suspension points.

Heaters should be suspended at a height that has been determined to be most efficient for that application. Clearances to combustibles must be observed. Refer to the installation manual for clearances and recommended mounting heights.

NOTE: Although turnbuckles are not included in this hanger kit, using turnbuckles in heater suspension is recommended for convenience in leveling the system. Use either an Option CK12-CK18 Turnbuckle Kit, or field-supplied turnbuckles of steel or malleable iron.

The installer is responsible for attaching the suspension points to the building and for adequately supporting the weight of the heater. Suspension point hardware is field supplied.

The burner/control box has two hanger brackets. To restrict lateral sway of the heater, locate suspension points as illustrated in FIGURE 1.



WARNING: The hanger kit is to be selected and installed by a qualified service person in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction. The qualified agency performing this work assumes responsibility for this installation.

Hanger Kit Instructions

NOTE: Before installation, wipe any excess corrosion inhibitor from the heat exchanger tubes. Failure to do so could result in excessive smoke from the surface of the tubes on initial startup.

FIGURE 2 - Chain attaches to Hanger Bar with an "S" Hook or Turnbuckle



IMPORTANT: Suspend each tube with chain as it is installed.

NOTE: Illustration shows reflectors. Suspend tubes before installing reflectors.

1. Chain - Determine length of chain required for heater to be suspended at established mounting height. To allow for expansion, chain length between the suspension point and the heater must be a minimum of 12" (including "S" hooks and turnbuckle, if used). When heater is installed, all chains connected to tubes must be plumb. Cut chain to determined lengths.
IMPORTANT: When cutting chain, be certain to remove the entire link (one link consists of two loops).
At each building suspension point, attach an "S" hook and chain length. If turnbuckles are used, attach a turnbuckle to the "S" hook at the suspension point or at the heater. Use of turnbuckles is recommended for leveling. Close "S" hooks at building suspension points.
2. Suspend Burner/Control Box with Attached Combustion Chamber Tube - Follow the instructions in the heater installation manual to prepare the burner/control box and combustion chamber for suspension. Suspend the box with attached combustion chamber tube as illustrated in FIGURE 1.
On each end of the combustion chamber tube, slide the hanger bar up over the reflector retainer wire. Attach an "S" hook at the center hole in the bar. Attach a turnbuckle or chain to the "S" hook. (A turnbuckle is recommended for leveling, either here or at the suspension point.) Attach chain from a single suspension point (Step 1) to the "S" hook. Chains must be plumb. Using a turnbuckle is recommended for leveling.
3. Suspend Heat Exchanger Tubes - Following the instructions in the heater installation manual, attach a tube bracket and reflector retainer wire to each heat exchanger tube and connect the tube to the previous tube with the compression coupling. (NOTE: If the reflectors are going to be angled, attach the end of the retainer wire with the sharper 45° bend so that it will be on the lower side.) Use the hanger bar, "S" hook, and optional turnbuckle to suspend the tube from the chain. Follow the instructions in Step 2) and refer to FIGURE 2 for arrangement of chains.
IMPORTANT: Suspend each tube with chain as the tube is installed. Straight tubes downstream adjacent to an "L" or "U" tube require two suspension points.
4. Leveling - The tubular system must be level. Before operating, use a spirit level to verify that the burner/control box and all tubes are level. Level system by adjusting chain or turnbuckles.
5. "S" Hooks - Close all "S" hooks being careful not to affect the length of the chains. If the reflectors are being angled, close "S" hooks after reflectors have been installed and angled.

Complete the installation by following the instructions and complying with all requirements in the heater installation manual.

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