

ULT Series Harsh Environment Gas-Fired Tubular Radiant, Low Intensity Heater for Indoor/Outdoor Use



NOTE: ULT Model is approved for commercial/industrial use for both indoor or outdoor installation.

These heaters are also approved for residential outdoor installations such as patios, gazebos or pool areas.



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NOTE: The ULT Model is known as "The Car Wash" heater. It is waterproof and designed for harsh environments such as a car washes, outdoor patios, greenhouses, etc.

A harsh environment is defined as wet or mildly corrosive. The ULT series is NOT intended for heavy chemical laden environment or areas where halogenated hydrocarbons may be present. Ducted clean, fresh air for combustion is required for mildly corrosive environments for the warranty to remain valid. For outdoor installation a wind and rain hood is required.

The ULT Series has an IPx5 Rating. ^B

DESCRIPTION

The Ultimate Supplies ULT series of tubular radiant heaters are available in bTuH inputs ranging from 60,000 to 200,000 and in system lengths from 20 to 80 feet (see the following pages for bTuH/system length combinations). All sizes are available for use with natural gas or optional propane gas. Tubular radiant heaters are engineered to provide quiet, reliable, energy-efficient, comfort level heating for both spot and space applications.

These radiant heaters are ready for use for elevations up to 2,000 ft. (610 M) above sea level. For installations in the U.S. above 2,000 ft., a high elevation adapter kit is available. Units can also be installed above 2,000 ft. elevation in Canada - see the installation manual for details.

The ULT series is designed with a (300 series grade) stainless steel burner/control box housing a power burner that fires into a combustion chamber and heat exchanger tubes, 20 to 80 feet in length. The burner is equipped with a positive pressure blower for supplying combustion air and a multi-try direct spark ignition with soft lock-out. The ULT Series controls include a single-stage gas valve and a pressure switch to verify combustion air flow.

The (304 series grade) stainless steel tubes are in 10-foot sections with each section having a (430 series grade) stainless steel reflector. Optional stainless steel "I" and "u" shaped tubes as well as 5 ft. (1.5 M) tube sections are also available. These accessories allow the radiant tube system configuration to adapt to various applications. A tubular system including an optional "u" tube provides the best balance of radiant emission over the length of any system.

Combustion air can either come from the heated space or be piped from the outside. A fresh, combustion air inlet adapter is standard, and must be used (1) if the building atmosphere has negative pressure; (2) if the building atmosphere is mildly dirty or dusty; (3) if the heater is being installed in a tightly closed room that does not provide required air for combustion. Failure to use combustion air inlet kit for units installed in mildly dirty or dusty environments will void the warranty. For outdoor installation, or indoor installation in damp environments, an optional wind and rain hood must be used.

Venting may be either vertical or horizontal. Some applications allow for ULT series to be installed unvented; however a rain vent hood is required on wet environments such as car washes.

ULT Series tubular heater systems are shipped in modular packages requiring field assembly and installation. Standard features, such as tube form hangers for chain suspension, compression coupling tube connections, and Nema 4 thermostat connection, are designed to facilitate installation.

These heaters are approved for use in the United States and Canada by the Canadian Standards Association (CSA).

^B IP is the Ingress Protection Rating or International Protection Rating. This is a standard rating intended to quantify the amount of protection. Each number following the "IP" indicates a level of protection.

The first number represents the size of solid particles from which the system is protected. This does not apply to the ULT series, so an "x" replaces the number value.

The second number indicates the level of protection of the enclosed system from the ingress of water. A "5" level rating states the system is protected against water jets.

Several websites offer more detailed description. For more information run a search for "Ingress Protection Rating."

