Explosion-Proof Heaters Type RXDF
Specification Sheet

1.0 Scope
Electric explosion-proof duct heaters shall be Ruffneck™ type RXDF, as manufactured by CCI Thermal Technologies Inc., complete with all standard equipment and optional features as specified below.

2.0 General
2.1 The heater is to be certified by CSA to the ratings as specified in 3.0.
2.2 The heater shall be provided with standard features and optional features as outlined in 4.0 and 6.0.

3.0 Specifications and Ratings
3.1 The duct heater shall be designed to heat air at ______ SCFM from ______°C to ______°C (______°F to ______°F).
3.2 The heater shall be of the explosion-proof, duct type, catalog number ____________________, rated ______ V, ______ Phase, ______ Hz, ______ kW with the following hazardous locations rating.
   □ Class ______, Divisions ______, Groups ______;
   □ Class ______, Divisions ______, Groups ______.
3.3 The duct heater shall be marked with a ______ temperature code, or maximum surface temperature of ______.
3.4 The minimum rated airflow through the duct heater shall be ______ SCFM.
3.5 The maximum outlet temperature of the duct heater shall not exceed ______°C (______°F).
3.6 The duct heater is to be mounted in a horizontal duct section downstream / upstream from the customer supplied blower.
3.7 The duct heater shall be suitable for operation in a -40°C (-40°F) min. to 40°C (104°F) max. ambient temperature.

4.0 Standard Features - Duct Heater
4.1 The duct heater shall be supplied with a ______" (H) × ______" (W) × ______" (L) carbon steel duct section with 1" wide mounting flange and painted ASA61 gray epoxy outside and high temperature aluminum inside.
4.2 The heating elements shall be 0.475" dia. (12 mm), extra heavy wall 0.095" (2 mm) finned tubular steel with nickel plated finish. Fins are to be fully brazed to the element sheath for maximum performance and efficiency.
4.3 The heating elements shall extend through CCI Thermal Technologies Inc. certified explosion-proof compression fittings into a patented x-Max® explosion-proof, extruded copper-free aluminum terminal housing(s) with 1¼" NPT power conduit entry and ¾" NPT conduit entry for high limit thermocouple connection.
4.4 The heating elements shall be mounted as ______ removable heating bank(s) and wired to terminal blocks for ______ × ______ kW, ______ V, ______ phase heating circuits to be ______ SCR controlled, or ______ ON/OFF control.
4.5 The duct heater shall be supplied with ______ 'J' type sheathed thermocouples welded or brazed to the element sheath for connection to ______ customer supplied / factory installed certified high limit controllers. High limit set points will be factory preset.
4.6 An explosion-proof differential pressure switch is supplied as standard for field wiring to the remote control panel. Switch is intended to prove that the minimum airflow is maintained at all times. The differential pressure switch is to be:
   □ factory mounted on the heater
   □ supplied loose for field installation.
4.7 The duct heater shall be mounted in a horizontal duct section with the terminal box(es) at the side.
4.8 The approximate weight of the duct heater shall be ______ lbs

5.0 Standard Features - Control Package
5.1 Enclosure type (check one):
   □ Type 4 - moisture-proof
   □ Explosion-proof
5.2 Temperature control (check one):
   □ Basic unit - customer supplied temperature control signal
   □ SCR controller - customer supplied 4 - 20 mA control signal
   □ Built-in temperature controller
   □ SCR controller with built-in temperature controller

6.0 Optional Features and Equipment (check as desired)
   □ Stainless-steel duct section
   □ Transition sections to ______" (H) × ______" (W) duct or ______" round duct.
   □ Special temperature code of ______.