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a fired heater is an insulated enclosure that uses the heat created by the combustion of fuels to heat fluids contained inside coils the type of heater is normally described by the structural configuration radiant tube coil configuration and burner arrangement fired heaters as the name specifies are obviously heaters or furnaces they are pieces of equipment used in processing facilities refineries power plants petrochemical complexes etc to heat fluids up to the desired temperature fired heaters also known as direct fired heaters or process heaters play a crucial role in petrochemical industries they are used primarily to heat fluids to a desired temperature facilitating various chemical processes critical to production fired heaters are among the most complex pieces of process control equipment fired heaters are used throughout hydrocarbon and chemical processing industries such as refineries gas plants fired heaters are industrial devices designed to generate heat by burning fuels such as natural gas or oil these heaters operate within an insulated enclosure that utilizes the heat produced by fuel combustion to heat fluids contained inside coils this figure provides a starting point for the design of fuel gas control for fired heaters the temperature control elements and fuel gas flow cascade are shown in bold other items are optional depending on the heater type and performance objectives

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