



Immersed Combustion System

Model LLS-G

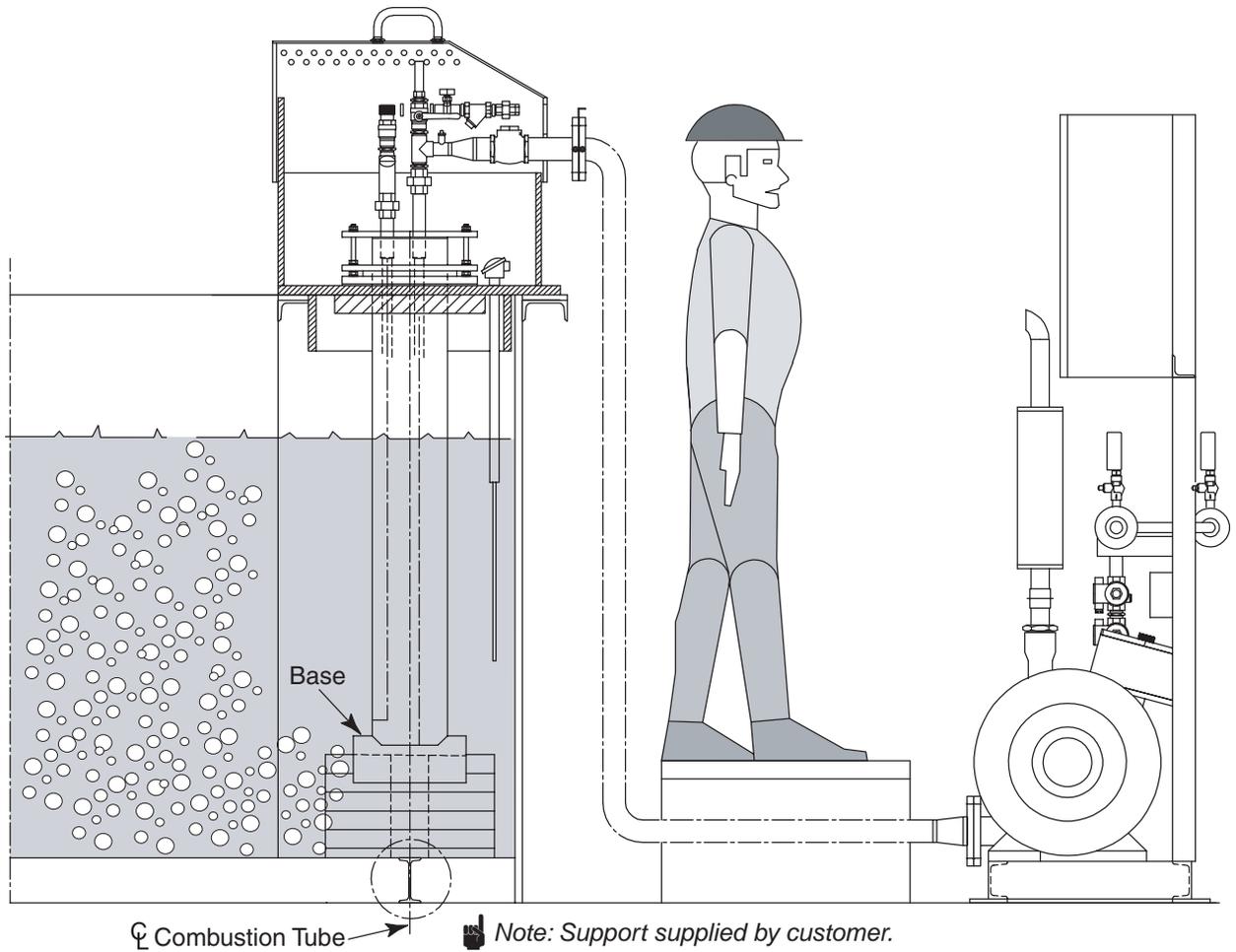
Version 1

The Eclipse Immersed Combustion System includes the Immersed Combustion burner, control panel, and all necessary equipment including the combustion blower and piping. The burner combustion chamber is constructed of graphite, which allows it to be fired in aggressive acids. It is capable of firing into 15-25% concentrations of Sulfuric, Hydrochloric, Nitric, Hydrofluoric, or any other acid in which graphite will not degrade. The products of combustion interact directly with the liquid to be heated, resulting in heating efficiency of 75-98%. The setup of each system will be specific to its application.

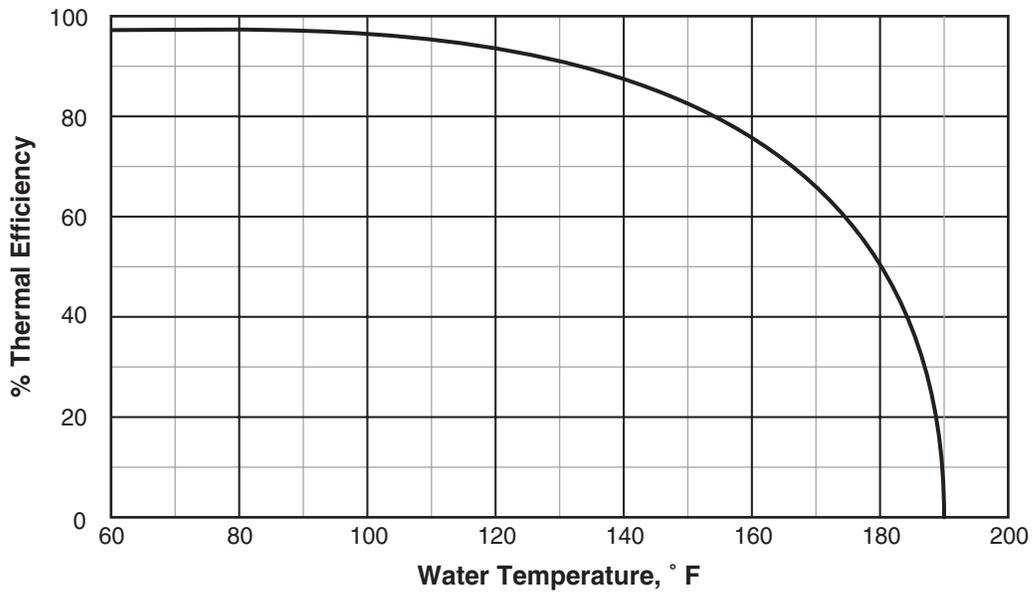
Parameter		Specification
Maximum Input KBtu/hr (kW)	1.0m Tank Depth	682 (200)
	2.0m Tank Depth	511 (150)
Minimum Input KBtu/hr (kW)	1.0m Tank Depth	273 (80)
	2.0m Tank Depth	273 (80)
Main Gas Input psi (bar)	Distribution Pressure	14.5 - 36.3 (1.0 - 2.5)
	Operation Pressure	5.8 - 8.7 (0.4 - 0.6)
Maximum Tank Depth ft (m)		6.6 (2)
Maximum Operational Temperature °F (°C)		167 (75)
Efficiency		75 - 98%
Ignition		Spark Ignited Pilot
Flame Detection		U.V. Scanner
Fuel		Natural gas, Propane*

* For any other fuel, contact Eclipse.

Typical Configuration



Thermal Efficiency of a Submerged Combustion System (Burning Natural Gas @ Sea Level)



ECLIPSE™
Innovative Thermal Solutions

Eclipse Combustion



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