



Kool-Fire Ltd. was established in 1978 with a number of patents on its award winning combination electric and gas fired heat pump design. The heating/cooling systems grew in size and sophistication, fulfilling our customer needs (from specialty residential to large commercial).

However, market needs changed and the cost of gas versus electricity dictated a new approach.

In the early 1990's Kool-Fire became an international company and turned its expertise toward designing new extremely efficient gas outdoor heating systems that could stand alone or be combined with its own air conditioning system.

The systems developed by Kool-Fire were created to fulfill the comfort needs of customers in the standard market, and perform in situations where most heating and cooling manufactures were unable to go (complete ductless heating/cooling).

Heat-Cool System Summary

- Outdoor burner & heat exchangers with natural gas or propane. Field proven to -40°C
- Multiple applications: space heating, potable hot water, pool heating, floor heating
- Heating and cooling simultaneously for commercial and residential applications (hotels, schools, churches, restaurants, offices, warehouses, condominiums, greenhouses, driveways, garage floors, floor heating)
- Environmentally friendly. Low carbon monoxide emission, no venting required
- Remote installation up to 500 feet
- For use with ducts, no ducts or a combination of both



Quality Features

- High efficiency 88.41 AFUE
- Stainless steel burners
- Compact quiet operation
- Single or two stage heating (modulating or special request)
- Modulating Cooling to 25% capacity
- Satin coated steel casing with powder paint finish
- Brass/copper boiler
- Pre-adjusted air mixture
- Service friendly and low maintenance cost
- Voltages available: 208-230/1/60, 208-230, 460, 575/3/60

Options Available

- Electric Controls
- Pump kit and pump enclosures
- Low Ambient kit
- Ultra low ambient A/C operation
- Up to 3 stage cooling
- Separate circuits for simultaneously heating and cooling (glycol or DX)
- Chilled water or DX Air conditioning
- Different capacity combinations
- Potable water kit Indoor heat/cool exchanger coil
- Indoor air handlers c/w blower & voltage combination
- Indoor 'in-wall' or 'on-wall' fan coils with 2, 3 or 7 fans running on 24V (8 watts each)

Operating Range

- Ambient -40°F through to 105°F
- Entering fluid 12°F through to 180°F (factory set 12°-150°F)
- Entering water 52°F leaving 45°F (factory set)
- Entering water 42°F leaving 35°F (available)

In-Wall & On-Wall Fan Units Summary

- For indoor commercial and residential applications

Operating Range

- Heating EWT 135F EAT 70°F
- Cooling EWT 45F EAT 80°F



Options Available

- Thermostat
- Other operating ranges

High Efficiency Heating & Cooling To Match All Your Needs

Stand-Alone Boiler Operation and Specifications

The boiler is designed for outdoor operation and certified to -40°F (-40°C). Its capabilities and uses vary greatly and eliminate the need for chimney or venting.

The boiler's burners produce extremely low carbon monoxide, making it not only extremely efficient (88.4% or 97% before fuel moisture content adjustment), but also environmentally friendly.



Stand-Alone Boiler Specifications

- Cabinet Material: Powder painted galvanized top
- Burners: Heavy stainless steel non-clogging ports
- Gas: Natural or propane
- Ignition: Direct spark (with safety lockout)
- Burner Adjustments: Fixed with automatic preheat (for propane)
- CO Output: nil
- Efficiency A.F.U.E.: 88.4%
- Ambient Operating Temperature for use as space heating and/or hot water: -40° to +105°F (-40° to +40°C)
- Gas Input Staging: 1 or 2
- Combustion: Semi-atmospheric
- Operating Voltage: Atmospheric blower 115 Volts, 60 Htz., 1 Amp
- Control Voltage: 24 Volts
- Safety Controls: 4 independent circuits
- Normal Operating Fluid Temp: (Min) supply 125°F (32°C) Max 1800F (82°C)
- Fluid Control: Reversible, for extreme low or high application temperature
- Adapter Kits Available for Special Application

	60-100 MBH	200-300 MBH
Glycol Connections	1 I.D.	1¼ I.D.
Width	18"	29"
Height	19"	19½"
Length	55"	55"
Gas Supply Connection	¾"	¾"

- Gas connections access either side
- Electrical connection access either side

Boiler units can be stacked and staged to produce required heating capacity, thus allowing excellent control to maintain a very high efficiency.

Major components are on slide tracks for easy access and service, and most can be purchased locally.

There is no component in the boiler that cannot be replaced in less than 15 minutes, and low-budget maintenance doesn't require specially skilled personnel which minimizes costly down time.

All boilers are extremely quiet, have a low profile design and are impervious to wind, snow, rain or cold.