GOT INJECT-AIRE?

...then we have your PREFERRED total replacement solution.
Preferred Utilities Manufacturing Corporation (PUMC) is pleased to offer a direct replacement for your “Inject-Aire” burner, piping trains, controls, and ancillary equipment. PUMC is based in Danbury, CT, which is located about 60 miles north of New York City. Our engineering and manufacturing facility is also located in Danbury, CT which proudly designs and manufactures all of the required equipment for your replacement project.

Founded in 1920, Preferred has built a legacy by delivering innovative combustion solutions. Building on that legacy, Preferred continues to engineer new and exciting products tailored to meet the unique challenges and demands of today’s combustion industry.

We specifically engineer our products to provide energy savings, emissions reduction, and rugged durability. Using these industry-leading products, it is our aim to present our solution for upgrading your burner, controls, and boiler room equipment.
Customized solutions. Rugged endurance.

Our Burner Solution:
Building on the combustion knowledge and experience gained through the years providing thousands of burners to customers worldwide, PUMC has developed the next generation of "Inject-Aire" burners.

With our burner solution, PUMC leads the industry in burner technology with high turn-down, low excess air, and reduced emissions. Preferred’s unique burner solution offers low emissions capabilities without sacrificing efficiency, operational stability, or turndown.

Our Controls Solution:
PUMC has a range of proprietary controls solutions including burner management, combustion control, feedwater control, drum level control, draft control, and boiler master control.

Our proposed burner replacement control system utilizes parallel positioning combustion control, redundant scanning, atomizer post-purge, O2 trim, and more.

Our Support Solution:
With our manufacturing and engineering based in Danbury, CT, Preferred is able to better support our equipment in the Northeast where many of our "Inject-Aire" burner customers are located. Preferred offers a single source boiler room solution that eliminates the finger-pointing situation common with other burner manufacturers who integrate with someone else’s controls.

Our service personnel are highly trained and many are already familiar with your specific boiler room and equipment. Renowned for its level and quality of service and support, PUMC stands by its products.
Advanced Performance Inject-Aire Low-NOx Axial Flow Burner

The Advanced Performance Inject-Aire Low NOx burner (API) produces an exceptionally stable flame at all firing rates.

Fuel Variety
Capable of firing natural gas, light oil, heavy oil, digester gas, ethanol, and more, the API offers a wide range of fuel burning capability.

Advanced Design
Our engineers specifically designed this burner to eliminate field errors, reduce space requirements, and facilitate maintenance when needed.

High Efficiency
The API burner incorporates VFD for control of FD fan speed, resulting in significant electrical reductions, regardless of the type of fuel burned.

Low Emissions
1.5 -2.5% excess oxygen from 50 - 100% firing rate
30 ppmc on natural gas
90ppmc on #2 fuel oil
250 ppmc on #6 fuel oil without FGR
ADVANCED PERFORMANCE
INJECT-AIRE LOW-NOx
AXIAL FLOW BURNER

Low emissions or high efficiency—why should you have to choose?

Swing open housing allows for easy maintenance of the burner.

Removable fan housing.

Positioning knob with limit switch extends oil nozzle life by withdrawing the oil atomizer without opening the burner.

Direct drive parallel positioning servos.

Standard stainless steel gas manifold and front head ensures long lasting life and ability to burn corrosive fuels.

Gas injectors are tailored to each application to ensure the best possible performance for your fired unit.

Preferred’s Y-jet air atomized nozzle provides fine oil droplets with reduced atomizing air.

External flame scanners (UV or IR)

Servo positioned flame shaping device gives the API the ability to dynamically match the flame pattern to furnace geometry and air pattern across the turndown range.

Recessed front head eliminates the need for burner refractory.

4 MMBTUH – 20 MMBTUH
PREFERRED INSTRUMENTS

BurnerMate Universal

The BurnerMate Universal offers complete boiler control in an economical, off-the-shelf, pre-programmed controller. Separate processors are used for flame safeguard and combustion control for NFPA 85 compliance. Configuration is done in the field using the LCD key pad, the optional touch screen, or our exclusive BMU_Edit software running on your PC. BMU functions include:

- Advanced flame safeguard control including first out annunciation, nuisance trip protection, and lockout snapshot
- Combustion control (jackshaft, parallel positioning, with optional oxygen trim) utilizing up to ten servos and up to four Variable Speed Drives (VSDs)
- Draft control
- Feedwater control: single, two-element, or three-element.
- Large 10” color touch screen with pre-programmed graphic pages

The BurnerMate Universal is available for immediate delivery, requires no programming, and is U.L./FM approved.
INJECT-AIRE REPLACEMENT
APPLICATION - Please fill out and mail to the address below.

Customer Name: ________________________________

User: _________________________________________

Location: ______________________________________

Job Site Elevation, feet ASL - ____________________

Installation Details - ____________________________

Area Classification - ____________________________

Maximum Combustion Air Temperature, Deg. F. - ____________________

Insurance Requirements: ________________________

Code Requirements - ____________________________

Available Electrical Power - ______________________

Fired Equipment - ______________________________

Steam of HTHW Generator - ______________________

Furnace Dimensions - __________________________

Convective Heat Surface, Sq. Ft. - ________________

ABMA Radiant Heating Surface, Sq. Ft. - ____________

Capacity, #s/hr - ______________________________

Steam Pressure, PSIG - _________________________

Total Steam Temperature, deg. F. - ________________

Boiler Feedwater Temperature, deg. F. - ____________

"Design" Furnace Pressure, in. W.C. (no FGR) - ________________

Operating Furnace Pressure, in. W.C. - ________________

Fuels fired - ________________________________

Tear along the edge to fax or mail this form.
Fax: 203-798-7313