

MILLER PROCTOR NICKOLAS, INC.

***Your Link to
High Efficiency
Green Boilers***



MPN BOILERS

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Miller Proctor Nickolas, Inc. is...

With over 50 years of experience in Sales, Engineering and Service, **Miller Proctor Nickolas, Inc.** is a dominant force for industrial and commercial heating equipment in the New York Metropolitan area. **Miller Proctor Nickolas, Inc.** distribution equipment includes: **Cleaver-Brooks** boilers, **Nebraska Boilers**, **Natcom** Burners, Profire Burners, **BFS Industries** fuel transfer systems and boiler feed systems, **Raypak** atmospheric gas fired boilers and water heaters, **Containment Solutions** fiberglass and steel petroleum storage tanks, and **Selkirk** stacks. **Miller Proctor Nickolas, Inc.** has a product suitable for all of your heating requirements.

Miller Proctor Nickolas' association with our clients doesn't end with the purchase of equipment! We have a long-standing reputation for our dedication and customer service, both before and after sale. **Miller Proctor Nickolas'** expansive field services also include critical **BOILER PLANT SYSTEM SURVEYS**. These surveys are designed to evaluate all elements of an existing heating system for efficient operation and component condition. Typical surveys include examination of the pressure vessels for integrity, ultrasonic testing of tubes, as well as detailed combustion and control system efficiency analysis.

Miller Proctor Nickolas, Inc. is available, ready, and waiting to assist you with whatever you need- from simplified tank gauging or fuel handling to extensive new heating system design. We have a highly capable staff of 10 experienced Sales Engineers and 25 factory trained Field Service Technicians and an extensive stock of spare parts to help reduce your downtime. **Miller Proctor Nickolas'** experience, professionalism, and commitment to quality make us the number one choice for all of your boiler system needs.

... the intelligent choice.

**FACTORY AUTHORIZED
REPRESENTATIVES FOR:**

CleaverBrooks®



NATCOM®



wilo®



bfs INDUSTRIES, LLC



**Critical Fuel
Systems**



**CONTAINMENT
SOLUTIONS®**



CBEX Elite

- Steam and hot water
- 100 to 1,200 HP
- Natural gas, #2 light oil or combination
- 50 to 250+ psig on steam, 30 to 125 psig on hot water
- Available to <5 ppm NOx

Highest Efficiency

The new Cleaver-Brooks CBEX Elite flagship firetube boiler featuring EX technology is a completely integrated boiler, burner, control, and heat recovery system. Every core component has been designed and built by Cleaver-Brooks to work together, resulting in the most efficient and lowest-emission firetube system ever built.

Using finite element analysis, the revolutionary system was designed to optimize every component of the boiler, including the burner, the furnace, and the tubes, and provide uniquely balanced temperatures and heat loads.

Extended heat transfer tubing only found in EX systems uses Computational Fluid Dynamics (CFD) calculations to optimize the geometry of the tube and increase heat transfer by 85%. The result of the advanced heat transfer design is higher efficiency and lower emissions in a 15% smaller footprint.

The CBEX Elite is the only boiler package in the world to maintain 3% oxygen across the full operating range with 30 ppm NOx performance while firing natural gas.

Integration of the core components is the key to the CBEX systems. The superior Hawk control allows the boiler to run at the absolute maximum efficiency. Reduce fuel use with the stack economizer by recovering waste heat from flue gases and using it to preheat boiler feedwater. The LevelMaster low-water cutoff and pump control is the safest control available.

Features:

- Best fuel efficiency of any firetube ever built
- Completely integrated boiler, burner, control, and heat recovery system
- Minimum excess air across the operating range
- Can meet 5 ppm NOx emissions requirements without Selective Catalytic Reduction (SCR)
- Can meet 1 ppm CO emissions requirements



ClearFire®-LC

- Full condensing hydronic boiler
- 4,000 to 12,000 MBTU
- Ultra-low emissions
- Up to 98% efficiency
- Offers 5:1 turndown

The ClearFire®-LC integrates Cleaver-Brooks leading heat exchanger, burner and control technology into a large capacity condensing boiler solution. The CFLC's integrated premix burner and linkageless control, work together to provide full modulation, ultra-low emissions and optimum turndown.

**Large Capacity,
Fully Condensing**

By combining our proven extended heating surface tube designs, our patented AluFer® tubes and exclusive spiral tubes in a true counter flow arrangement, the CFLC delivers the capacity, efficiency and reliability previously considered unattainable.

When you are the industry leader, the only way to stay there is to continuously innovate. Many of our competitors claim to be innovators, but no one invests more energy and resources into research and product development. The CFLC is the latest in Cleaver-Brooks product advancements that define their category.

Features:

- Fully condensing with up to 98% efficiency and 5:1 turndown
- Ultra-low emissions
- Reduce energy consumption by as much as 40–50% compared to traditional non-condensing boiler systems
- No minimum return water temperature for maximum efficiency and reliability
- Dual temperature returns for system design flexibility
- Up-front capital cost is reduced by installing fewer larger-capacity boilers versus many smaller boilers
- Fully integrated system includes boiler, burner, and controls for multiple lead/lag configuration



ClearFire®-C

- Fully condensing hot water boiler
- 500 to 3,300 MBTU
- Natural gas and propane
- 125 psi
- Standard < 20 ppm NOx

The ClearFire-C is a vertical down-fired, stainless steel, full condensing boiler, available in six sizes. The AluFer® tubes with fireside extended heating surface provide maximum heat transfer for superior performance in a compact package.

Fully Condensing

This unit will offer up to 99% efficiency at low fire and 97% at high fire, with 80°F return water temperature.

The modulating premix burner control automatically adjusts the air/gas mixture for maximum efficiency. The linkageless burner provides up to 5:1 turndown.

The dual return feature allows condensing performance even with standard 180°/160°F design systems, with as little as 10% flow at 130°F or less from a low-temperature source.

The ClearFire-C comes standard with the Falcon touch-screen total boiler control to most efficiently operate your boiler system.

Features:

- Stainless steel combustion chamber, tubes, and tube sheet
- Dual temperature return for additional energy savings potential
- Optional dual gas train for critical backup fuel source
- Falcon total boiler control with lead lag capability up to 8 boilers
- Fresh air inlet connection for sealed combustion
- Low hydraulic resistance
- Waterside inspection
- Hinged burner for easy access
- Thermal shock resistance
- cULus listed for natural gas and propane
- Quiet: <70 dBA sound level at 3 feet



ClearFire®-H

- Steam Boiler
- 10 to 60 HP
- Natural gas and propane
- 15 or 150 psig
- Standard at <20 ppm NOx, <10 ppm CO

The ClearFire-H is a horizontal, gas-fired, steam boiler designed for the requirements of the commercial market, available in eight sizes. The AluFer® tubes with fireside extended heating surface provide maximum heat transfer for superior performance in a compact package.



Horizontal Steam Boiler

The modulating premix burner control automatically adjusts the air/gas mixture for 83% efficiency. The linkageless burner provides up to 5:1 turndown.

85% efficiency is achievable for high-pressure steam with an optional flue gas economizer package.

The ClearFire-H comes standard with the Falcon touch-screen total boiler control to most efficiently operate your boiler system.

Skid packages, including steam boiler, feed system, and blowdown separator, are available for turn-key steam solutions.

Features:

- Maximize fuel savings with full burner modulation and high turndown with variable-speed blower motor
- Efficiencies up to 85%, reducing greenhouse gas emissions
- Easily tuned, zero-governor, premix burner
- Advanced combustion design eliminates need for flue gas recirculation, resulting in low emissions
- No dampers or linkages, for reliable operation
- Falcon total boiler control with lead lag capability seamlessly integrates up to eight boilers
- Integral CFH Economizer or external economizer options
- Skid packages available
- Thermal shock resistance
- cULus listed for natural gas
- Quiet: <70 dBA sound level
- Economizer option



Vertical Steam Boiler

ClearFire®-V

- Steam boiler
- 10-60 HP
- Natural gas and propane
- 150 psig
- Standard at <20 ppm NOx, <10 ppm CO

The ClearFire-V is a carbon steel, vertical, gas-fired, steam boiler designed for the requirements of the commercial market, available in eight sizes. The AluFer® tubes with fireside extended heating surface provide maximum heat transfer and eliminate laminar gas flow during minimum firing, providing optimized efficiency throughout the firing range.

The modulating premix burner control automatically adjusts the air/gas mixture for 83% efficiency. The linkageless burner provides up to 5:1 turndown.

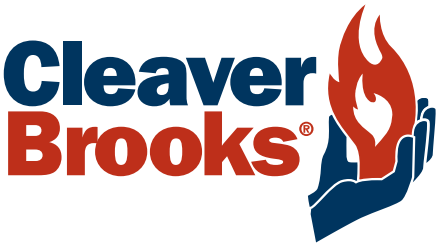
85% efficiency is achievable for high-pressure steam with an optional flue gas economizer package.

The ClearFire-V comes standard with the Falcon touch-screen total boiler control to most efficiently operate your boiler system.

Skid packages, including steam boiler, feed system, and blowdown separator, are available for turn-key steam solutions.

Features:

- Maximize fuel savings with full burner modulation and high turndown with variable speed blower motor
- Efficiencies up to 85%, reducing greenhouse gas emissions
- Easily tuned, zero-governor, premix burner
- Advanced combustion design eliminates need for flue gas recirculation, resulting in low emissions
- No dampers or linkages, for reliable operation
- Falcon total boiler control with lead lag capability seamlessly integrates up to eight boilers
- Thermal shock resistance
- cULus listed for natural gas
- Quiet, <70 dBA sound level
- Economizer option
- Skid packages available



Upgrades & Retrofits

Turnkey conversions and comprehensive upgrade and retrofit capabilities from our world-class engineering staff make it easy to change fuel types, lower emissions, increase boiler efficiency, or bring any age system back to the manufacturer's original specifications. Whatever advantage or benefit you may need, Cleaver-Brooks has the solution and dedicated aftermarket team to help you engineer and implement it.



Cleaver-Brooks offers solutions to **lowering fuel costs** for every boiler room and application. From brand-new boilers to burners, and controls to heat recovery, we can help you engineer a custom solution that meets your needs.

Lowering boiler room emissions can be tricky; whether for a sustainability effort or the result of a government mandated emissions program, look to us to help. Cleaver-Brooks have long been the leader in offering low- and ultra-low-emissions solutions that are right for any application. Our aftermarket solutions team will work with you to design a retrofit solution utilizing our array of turnkey boilers and burners to achieve ultra-low emissions.

Change Fuel Type

Changing the type of fuel your boiler or burner system fires can have a significant impact on fuel cost savings. Expanding the range of fuels the system is able to utilize can also enhance the operational capabilities of your system. With these advantages in mind, Cleaver-Brooks takes great care in designing and engineering our fuel equipment upgrades. Our fuel conversion kits are built to work seamlessly with your existing system, allowing you to reap the benefits sooner.



Controls

Advanced, integrated, boiler system controls are often the boiler room upgrade that yields the highest return. Take the guesswork out of keeping your boiler room running at peak efficiency year-round with our integrated control systems. Cleaver-Brooks has turnkey control solutions for every boiler room and application, each designed to help you save on fuel costs and maintain emissions levels. Built and optimized to work specifically with our systems, the right solution can help you get up and running quickly and start saving you money in no time.





Upgrades & Retrofits

Heat Recovery

Reduce energy costs and environmental impact by recovering waste heat or steam and using it for other system applications. The recovered heat and steam can be recycled to be used as-is, or used to heat new feedwater, saving fuel and money.

CRE Economizer

- Steam or hot water applications
- Saves energy by capturing waste heat
- Preheats boiler feedwater
- Boilers up to 2,200 HP
- Accommodates all boiler design pressures

The CRE Rectangular Economizer can be utilized up to 2,200 HP for capturing the waste heat and preheating boiler feedwater, makeup water heating, hot water boilers, and potable and process water applications.



Rectangular Design

CCE Economizer

- Steam and hot water applications
- Saves fuel by preheating feedwater
- Boilers up to 250 HP
- Accommodates all boiler design pressures
- Accommodates heavy oil fuel

The CCE Cylindrical Economizer can be utilized on boilers up to 250 HP for boiler feedwater, makeup water heating, hot water boilers, and potable and process water applications.



Cylindrical Design

Blowdown Heat Recovery

- For steam applications
- Up to 22 gpm blowdown
- Up to 180 gpm makeup
- Captures waste heat from blowdown process
- Maintains desired level of total dissolved solids (TDS)



Continuous boiler surface blowdown heat recovery (BDHR) is the most effective method of purging destructive solids from any steam boiler system.

Raypak®

A Rheem® Company

Think Green!
Think Raypak!

XTherm®

ULTRA HIGH EFFICIENCY

XTherm® Condensing Boilers & Water Heaters

1005 - 2005

Time-honored technologies unite with cutting-edge advancements in Raypak's new XTherm® modulating vertical heater. Never before has a vertical heater provided both the installer and building owner such installation flexibility, ease-of-commissioning, reliability and long-term performance.

Small space, not a problem. The XTherm® has one of the smallest installed footprints of any vertical condensing heater. Our compact design makes it the perfect choice for those hard to reach retrofit projects. Raypak's XTherm® is built with commercial-grade components and materials. From our structural steel channel base to our stainless steel flue wrapper, and condensing heat exchanger, you can tell the XTherm® is built to last. It's easy to handle and install, but still user friendly to service.



Key Features:

- 3 models from 1,000,000 to 2,000,000 BTUH
- 96% thermal efficiency hydronic and 97% domestic hot water
- CSA Certified Low Lead Compliant
- All models CSA indoor/outdoor construction
- Small footprint, less than 11 square feet
- Minimum continuous inlet water temperature (50°F)
- Water heater models are equipped with all copper and bronze waterways.
- Pump outputs - System and indirect
- Modulating gas valve and burner, 7:1 turndown
- Meets all current Low NOx regulations, less than 20ppm
- Whisper-quiet operation
- On-board diagnostic center, real English, no codes.
- 0-10 VDC BMS Interface (setpoint or direct drive)
- Built-in cascade function for up to 4 boilers
- Complete cabinet protects all controls and wiring
- Tough rust-resistant powder coat finish
- Easy to service - air filter
- Suitable for altitudes up to 10,000 ft.
- Modbus BMS port.

Xtreme performance
powered by Raypak

Raypak®

A Rheem® Company

XFyre®

NINETY PLUS

XFyre™ Condensing Boilers & Water Heaters

300A - 850A

Raypak's XFyre® is a natural extension of our successful XTherm® modulating vertical boiler line (1.0 to 4.0 Million BTUH). A new leading edge in integrated control platform, the VERSA IC®, fully integrates burner modulation, temperature control, outdoor reset, ignition, safety, and individual fault monitoring. VERSA IC® also includes a Modbus communication port as standard.

Raypak's XFyre® is the ideal choice for Mechanical engineers, architects and building owners due to the XFyre's extreme installation flexibility, high efficiency, space saving footprint, zero side clearance, direct vent capability, and full service access. Installers enjoy ease-of-commissioning, reliability, serviceability and long-term performance.

Small space, no longer a problem. Raypak's vertical water connections allow the units to be installed side by side, further reducing the footprint on multi-boiler installations. Our compact design makes it possible to install up to 3.4 million BTUH in under 67 ft² of floor space, plus front and rear clearance. Tie them all together with our built-in VERSA ICT Control and you may have a boiler system with a 20:1 turndown that operates at up to 99% thermal efficiency! This is an Xtreme green retrofit system.

Key Features:

- 5 models from 300,000 to 850,000 BTUH
- 94% thermal efficiency hydronic and 95% water heaters
- CSA Low Lead Certified
- Top water connections - allows side by side installation
- All models are equipped with 316L welded stainless steel heat exchanger and copper plumbing. ASME Section IV constructed and stamped. National Board registered.
- Multiple pump outputs - Boiler, System, and Indirect
- Dual flame sensing - Remote flame sensor and spark ignition rod
- Modulating gas valve and burner, up to 5:1 turndown
- Meets all current Low NOx regulations, less than 20ppm
- Whisper-quiet operation
- On-board diagnostic center, real English, no codes.
- 0-10 VDC BMS Interface (setpoint or direct drive)
- Built-in cascade function for up to 4 boilers
- Built-in outdoor reset functionality
- Complete cabinet protects all controls and wiring
- Easy to service - air filter
- Modbus BMS port.



Think Green!
Think Raypak!

Xtreme performance
powered by **Raypak**

Wilo Stratos GIGA

The Wilo Stratos GIGA is a high efficiency, single stage, low pressure, inline centrifugal pump; supplied with EC motor and electronic duty adaptation. Available in glanded construction, mechanical shaft seal, and flanged connections.



- Flow Range over 270 gpm at 40ft
- Innovative high-efficiency pump for highest efficiency, based on a new Wilo glanded pump design
- New hydraulics ideally adjusted to the EC motor technology
- Extremely compact and space-saving design
- Easy-to-operate due to established red button technology and display
- Different control modes Δp -c, Δp -v, PID and n =const. (manual control mode)
- Analogue interfaces 0-10 V, 2-10V, 0-20 mA, 4-20 mA
- Optional interfaces for bus communication using plug-in IF-Modules
- Integrated double pump management with efficiency-optimized peak-load activation
- Fault management tailored to heating and air-conditioning applications
- Integrated full motor protection
- High corrosion protection due to cataphoretic coating
- Condensate drainage as standard
- Integral threaded pump feet for foundation installation

Wilo Stratos

The Wilo Stratos is an in line, flanged wet rotor circulator with EC motor and automatic capacity adjustment.

- Flow Range up to 240 gpm at 10ft
- Energy efficiency class A
- Up to 80% power saving compared with constant speed circulating pumps
- Maximum efficiency thanks to ECM technology



Wilo IL

The Wilo IL is a single stage low pressure centrifugal, inline design with mechanical seal. Baldor NEMA standard motors



- 1750 RPM Flow Range up to 1000 gpm at 40ft
- 3500 RPM Flow Range over 1400 gpm at 50ft
- Integral suction diffuser cast in volute inlet
- Pump flanges 125 # raised face ANSI std (250 # ANSI optional)
- Cataphoretic coating for corrosion protection
- Pump feet drilled and tapped for ease of installation
- Motor stool includes extra tappings for removal from volute ("jack screws")
- Couplings include spacers and does not require dial indicators for alignment

Model PS / IPS Pressure Stack

Models PS and IPS are modular, prefabricated piping systems which employ flanged joints designed for both quick assembly and pressure-sealing capabilities. They are usable for a wide variety of applications, including:

- Chimneys and stacks for Boilers & other types of building heating equipment.
- Chimneys for industrial ovens, furnaces, and processing equipment.
- Exhaust piping for engines or turbine units.
- Grease duct in restaurants for compliance with Type 1 hood requirements.
- Ducting for heated air and combustion products.
- Ducting for light duty pollution control equipment.
- Venting for engine exhaust and other shipboard systems.
- Venting for offshore drilling rigs.



SAF-T Vent CI Plus



SAF-T Vent CI Plus is the leading commercial double-wall UL 1738 special gas vent system for condensing heating appliances, made from superferritic stainless steel. With 1" airspace (and optional 1" fiber blanket) between the inner wall and the outer wall, CI Plus reduces the required clearance to combustibles and has lower skin temperatures. The joint seal is securely fastened together at the inner wall and not the outer wall like some other double wall manufacturers, for increased strength & security. Our overlapping male-female joint also ensures the acidic condensate stays on the extremely credible, durable AL29-4C® stainless steel when installed properly.

- 4" through 32" diameters
- AL29-4C® SS inner / 430SS outer
- Patented Sure Seal closure system
- 4" – 16" diameters – Factory built-in silicone seal
- 18" – 32" diameters – Field applied silicone sealant required
- Tested and Listed to UL 1738/ULC S636 for Category 2, 3, & 4 Appliances
- Tested and Listed to UL 641/ULC-S609 for L-Vent Gas & Oil Appliances





Model G Single Wall Piping

Model G is a single wall negative, neutral, or positive pressure capable, stainless steel pre-fabricated piping system for use in many applications including: grease duct, fume venting, chimney liner, chutes, particle conveying, etc. Model G is UL Listed for grease duct applications. Model G is c-UL Listed as a chimney liner (for existing chimneys) via ULC-S635.



- Available in standard sizes 5" – 48"

Zero Clearance Grease Duct

ZeroClear® (IPS-Z3) is an innovative factory-built kitchen grease duct with a zero clearance to combustibles rating and integrated chase construction. The 3" high temp fiber insulated double wall construction provides an integral 2 Hour Fire Resistance Rating and eliminates the need for a separate fire-rated enclosure around the duct. This light weight design is available in sizes 5" - 36" (ID) diameters.



Selkirk QC Type 'B' Vent

Selkirk Quick Connect Double Wall Gas Vent is listed to UL 441 and ULC S-605 and features an Aluminum inner liner and Galvanized outer casing.

- Natural and Propane Gas applications.
- Model QC, 10" to 48"
- Listed to ULC S-605



Energy Vent B-Vent

Model BV is for venting gas fired or propane appliances approved with B-Vent and producing flue gas temperatures not in excess of 470 F (245C).

- Model BV, Small Diameter = 3" to 7"
- Model BV, Medium Diameter = 8", 10" & 12"
- Model BV, Large Diameter = 14" to 36" in two inch steps.
- Tested & Listed. to ULC S605 and U.L.I. 441
- Wide range of sizes to handle any application.
- Sturdy fit of collars for easy assembly.
- Twist lock collars - easy to take apart for service and inspection.
- Four piece elbow twists for easy offsets.
- Support Assembly flange attached to plate.
- Listed for exterior application when enclosed by a chase.
- Eliminates need to stock additional "insulated" B-Vent.



MILLER PROCTOR NICKOLAS, INC.

For the last 50 years **Miller Proctor Nickolas, Inc.** has been established a reputation for its commitment to offering top quality heating equipment from the best known manufacturers in the industry. But did you know we also offer top quality parts and services for all the systems we sell, as well as other brands of heating equipment?

Here's a sample of what **Miller Proctor Nickolas, Inc.** has to offer...

Service

- Factory Trained Technicians
- New Equipment Start Up Services
- 24 HR. Service Contracts
- NYCBAR Inspections
- Boiler Efficiency Survey / Inspection Reports
- Complete Boiler / Burner Replacements
- Repair/Replace Feedwater & Fuel Oil Pumps
- Boiler Cleanings
- Boiler Tube Replacement
- Refractory Inspection / Replacement
- Burner Tune-Up
- Gas / Oil Conversions
- Flame Safeguard Control Upgrades
- Install/Repair/Replace Smoke Alarms & Draft Controls
- Repair/Replace Fuel Tank Gauges & Controls
- Install/Repair O2 Trim Systems
- Install/Repair Lead Lag Controls
- Install/Replace Chemical Feed Pumps & Water Softners

Parts

- Factory Supplied O.E.M. Boiler Parts
- Boiler Gaskets
- Refractory Tiles / Brick / Castable /Blanket
- Insulating / Sealing Materials
- Welding Pins / Anchors
- Boiler Tubes
- CB Burner Housings - In Stock
- Complete CB Insulated Inner & Rear Doors
- Pressure / Temperature Controls
- Gas/Oil Solenoid & Motorized Valves
- Flame Safeguard Controls
- Feedwater Valves
- Blowdown Valves
- Low Water Cut Off – Mechanical, Probe & Electronic
- Gauge Glasses - Low & High Pressure
- Feedwater & Fuel Oil Pumps / Motors
- CB Blower Motors & Air Compressors – In Stock
- NYC Approved Smoke Alarm Controls
- NYC Approved Draft Controls
- Fuel Oil Specialties
- Tank Gauging Equipment



MPN BOILERS

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24 Hour Emergency: 914.332.0099

Service Fax: 914.332.6344

Parts Fax: 914.332.4618

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