

## Ion™ 80 Ultra-Low NOx Gas Furnace

The Arcoaire® Ion 80 ultra-low NOx gas furnace delivers consumer comfort in a unit that meets or exceeds California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air Pollution Control District (SJVAPCD) new requirements for dramatically reduced NOx emissions. Offering features and benefits representative of our Ion System gas furnaces, this furnace releases less nitrogen oxides (NOx) than current models. NOx contributes to the formation of smog and acid rain and the deterioration of water quality. The Ion 80 ultra-low NOx gas furnace also provides an alternative for homeowners concerned about the high electricity costs associated with heat pumps in these areas. And, to help prepare you for the upcoming 2019 deadline for ultra-low NOx furnaces, we'll work with you to provide the training and support you need to succeed.

### Product Features and Benefits

#### Efficiency

- 80% AFUE
- 40k, 60k, 80k and 100k Btu/h capacities

#### Technology

- Single-stage gas valve
- Fully communicating Variable-Speed, Constant Airflow (VCA) ECM blower motor
- Pilot-free, hot surface ignition
- Variable-speed inducer motor
- Stainless steel tubular heat exchanger
- Ultra-low NOx burner technology

#### Performance

- Blocked vent protection
- Dual fuel compatible
- Ultra-low NOx emissions meet 14 nanograms/joule limit, which is 65% less than the current low NOx standard in California
- Meets California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air Pollution Control District (SJVAPCD) ultra-low NOx requirements

#### Durability/Reliability

- 20-gauge galvanized steel with appliance-finish cabinet
- Baked-on urethane base coat and polyester top coat paint in Baltic Grey
- Stainless steel heat exchanger for extreme durability and longevity

#### Compatibility

- Ion™ System Control
- Compatible with current Ion System air conditioners and heat pumps, including two-stage and variable-speed models



Model F80CSU

Ion 80 Ultra-Low NOx Gas Furnace

Model	Btu/h Input	Ton (Up to)	AFUE	H (In.)	D (In.)	W (In.)
F80CSU040	40k	3	80%	33.33	29	17.5
F80CSU060	60k	4	80%	33.33	29	17.5
F80CSU080	80k	5	80%	33.33	29	21
F80CSU100	100k	5	80%	33.33	29	21

### Flexibility and Peace of Mind for Your Customers

#### Design and Installation

- Flexible installation: upflow, downflow or horizontal
- Versatile venting for tight-fit applications
- Intelligent Ion™ System setup and commissioning, including duct assessment and charge assist for a matched air conditioner or heat pump

#### Warranty Coverage

- Ten-year parts limited warranty upon timely registration\*
- Lifetime heat exchanger limited warranty

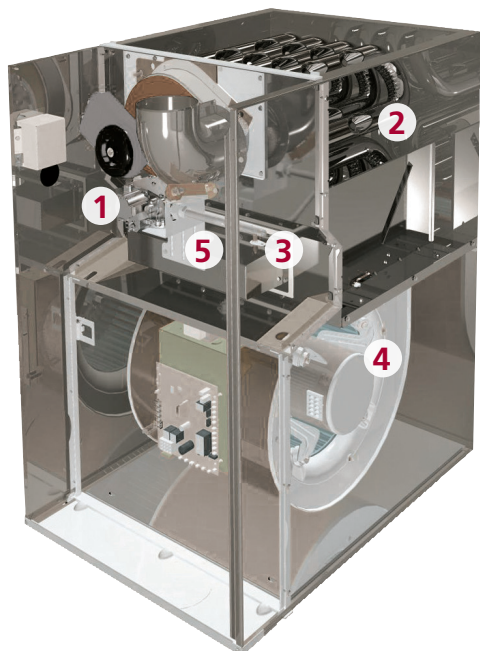
#### System Flexibility

- Pair our ultra-low NOx furnace with an Arcoaire® two-stage or variable-speed air conditioner for enhanced year-round comfort
- Or, pair it with an Arcoaire® two-stage or variable-speed heat pump and compatible thermostat to create a dual fuel system

\* Except in jurisdictions where warranty benefits cannot be conditioned upon registration. See warranty certificate for terms and exclusions.

## Built with Strength

Each unit is 100% run tested, and we design our products to give you the best in quality, energy efficiency and reliability. It's our tradition to deliver products that exceed homeowner expectations. Here are some features and functions that your customers will enjoy:



- 1 Single-Stage Gas Valve** – delivers consistent, reliable performance and use of natural gas.
- 2 Stainless Steel Tubular Heat Exchanger** – contributes to lasting durability with corrosion-resistant design.
- 3 Hot Surface Ignition** – is one of the most robust and durable ignition systems available. It eliminates the need for a pilot light, reducing gas usage and promoting worry-free operation.
- 4 Variable-Speed, Constant Airflow (VCA) ECM Blower Motor** – variable airflow allows for the best in comfort, ultra-quiet operation and exceptional electrical motor efficiency. During cooling, it contributes to enhanced dehumidification for improved comfort and potential energy savings.
- 5 Pre-Mix Burner** – combines combustion air with gas at the right ratio for a cleaner burn. Stainless steel components and the Arcoaire® pre-mix burner design allows for the airflow within the box to self-cool the outer box of the burner.

## Key Selling Features

### ✓ Ultra-Low NOx

Designed to meet or exceed California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air Pollution Control District (SJVAPCD) standards for ultra-low NOx 14 ng/J emissions. The Ion™ 80 ultra-low NOx gas furnace provides warm winter heating with 65% lower NOx emissions than models compliant with current low NOx standards.

### ✓ Dual Fuel Compatible

Combine an Arcoaire ultra-low NOx gas furnace, an Arcoaire heat pump and a compatible thermostat to create a dual fuel system. Its ability to automatically switch between electric and gas heating makes a dual fuel system a good defense against unpredictable utility costs.

### ✓ Efficiency

AFUE (Annual Fuel Utilization Efficiency) ratings are like your car's MPG – the higher the number, the greater the potential savings. The Ion 80 ultra-low NOx gas furnace delivers 80% AFUE heating. Equipped with a variable-speed ECM blower motor, this furnace also achieves enhanced electrical efficiency and provides a boost to the cooling system's SEER (Seasonal Energy Efficiency Ratio) over older models with PSC motors.

### ✓ Environment

NOx emissions contribute to ground-level ozone, respiratory problems, acid rain, water quality deterioration and global warming. The Ion 80 ultra-low NOx gas furnace releases less NOx than current low NOx models.