

# gas fired water boilers



## Modulating Condensing Gas Boilers

Up to 95% A.F.U.E.  
Natural gas or propane  
Quantum 95M-200  
80-200 MBH

**Quantum**  
95M-200



## Condensing Gas Boilers

Up to 90% A.F.U.E.  
Natural gas or propane  
Quantum 90-200, Quantum 90-100  
50-200 MBH

**Quantum**  
90



## Cast Iron Gas Boilers

Up to 87% A.F.U.E.  
Natural gas or propane  
OSC, ODV-B, OMGB  
50-150 MBH



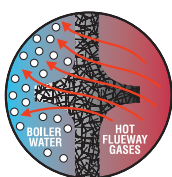
*keeping families warm for more than 60 years*

# cast iron gas fired water boilers

## High Energy Efficiency and Lower Heating Costs

With efficiency ratings as high as 87%, the cast iron boiler series provides increased energy savings, resulting in lower fuel bills. With the potential cost savings this represents, the cast iron boiler series will pay for itself in a few short years.

## Quality Cast Iron Heat Exchanger



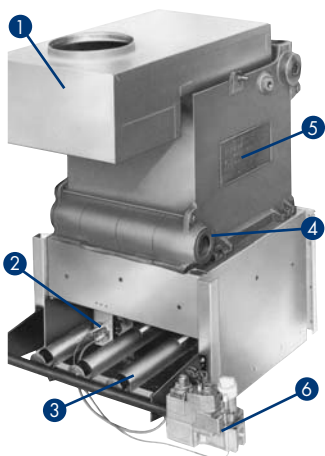
The cast iron construction has been the standard for years due to its durability and efficient heat transfer capabilities. Cast iron sections and push nipples are an integral part of each heat exchanger, and dual thermal flow speeds heat transfer. Hot flueway gases pass around hundreds of staggered studs on the flueway wall, providing rapid heat transfer to the boiler water. Internal baffles agitate the circulating water, so it heats quickly and uniformly. The use of only the highest quality cast iron and heat transfer designs ensure that the heat exchanger will provide many years of efficient and trouble-free operation.

## Corrosion Resistant Stainless Steel Burners



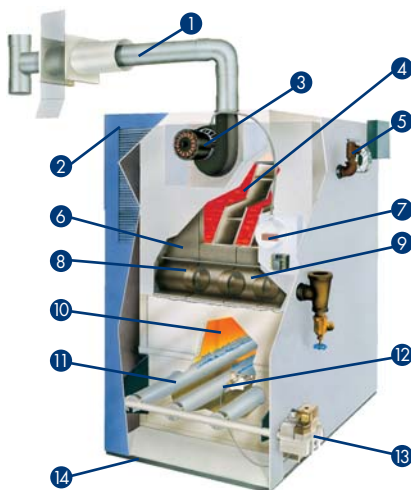
Corrosion resistant atmospheric stainless steel burners are incorporated into cast iron, delivering uniform flame patterns that optimize combustion efficiency and quiet operation.

### OMBG FEATURES



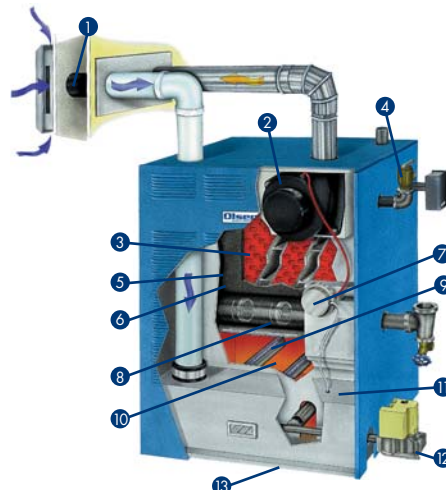
- 1- Integrated Draft Hood
- 2- Pilot Assembly
- 3- Corrosion Resistant Atmospheric Stainless Steel Burners
- 4- Cast Iron Push Nipples
- 5- Cast Iron Heat Exchanger
- 6- Gas Valve

### ODV-B FEATURES



- 1- Specially Designed Rust-Proof Stainless Steel Vent Piping (Not Supplied)
- 2- Pre-Painted Steel Finish
- 3- UL-Approved® Safety-Tested Exhaust Fan
- 4- Computer Designed Heat Transfer Pin Configuration
- 5- Pressure Relief Valve
- 6- A.S.M.E. Approved Cast Iron Sections (Limited Lifetime Warranty)
- 7- Positive Vent Safety Shut-Off Switch
- 8- Cast Iron Push Nipples
- 9- Cast Iron Heat Exchanger
- 10- Whisper-Quiet Flame
- 11- Corrosion Resistant Stainless Steel Burners
- 12- Reliable Electronic Pilot Ignition Sensor
- 13- Safety Redundant Gas Valve
- 14- Optional Combustible Floor Installation Kit





### OSC FEATURES



- 1- Protective Wall Thimble
- 2- UL-Approved® Safety-Tested Exhaust Fan
- 3- Computer Designed Heat Transfer Pin Configuration
- 4- Pressure Relief Valve
- 5- A.S.M.E. Approved Cast Iron Sections (Limited Lifetime Warranty)
- 6- Cast Iron Heat Exchanger
- 7- Positive Vent Safety Shut-Off Switch
- 8- Cast Iron Push Nipples
- 9- Whisper-Quiet Flame
- 10- Corrosion Resistant Stainless Steel Burners
- 11- Reliable Electronic Pilot Ignition Sensor
- 12- Safety Redundant Gas Valve
- 13- Optional Combustible Floor Installation Kit

# gas fired water boiler selection guide

BOILER MODEL

FEATURES	Cast Iron			Condensing		Modulating
Efficiency	OMGB	ODV-B	OSC	Q90-100	Q90-200	Q95M-200
Annual Fuel Utilization Efficiency (AFUE) Energy Star Certified	up to 84.1%	up to 83%	87% 	90% 	90% 	95% 
Cast iron heat exchanger	•	•	•			
Cast aluminum heat exchanger				•	•	•
Stainless steel burner	•	•	•			
Modulating burner						•
Stainless steel premix burner				•	•	
Automatic gas valve	•	•	•	•	•	
Modulating automatic gas valve						•
Combination aquastat relay	•	•	•			
Microprocessor-based boiler control				•	•	•
Interrupted electronic pilot system	•	•	•			
Hot surface ignition				•	•	
Direct spark ignition						•
<b>Safety</b>						
Blocked vent safety device	•	•	•	•	•	•
Casting temperature safety switch				•	•	•
A.S.M.E. approved relief valve	•	•	•	•	•	•
<b>Installation</b>						
Sealed combustion — direct vent			•	•	•	•
Sidewall vented (Cat. III)		•				
Chimney vented (Cat. I)	•	•				
Pump included	•	•	•	•	•	•
Service switch and 115V outlet				•	•	•
Low water cut off					•	•
Outdoor temperature sensor						•
Field convertible to Propane (LP)	•	•	•	•	•	•
High altitude kit available — special order	•	•	•	•	•	
High altitude kit included						•
<b>Warranty</b>						
*1 Year Parts Warranty	•	•	•	•	•	•
*15 Year Heat Exchanger Warranty				•	•	•
*Limited Lifetime Heat Exchanger Warranty	•	•	•			
Comfort Plus Extended Warranty Available	•	•	•	•	•	•

\* As per the limitations set out in the warranty

ECR's home comfort products are designed to provide years of **trouble-free** operation

The "Comfort Plus" Extended Warranty program complements ECR's Standard Product Warranty by providing labour coverage and additional years of parts coverage depending on the plan purchased. If you sell your home, the "Comfort Plus" warranty can be transferred to the purchaser, adding to the value of your home. Ask your installer for details on the "Comfort Plus" Extended Warranty program.





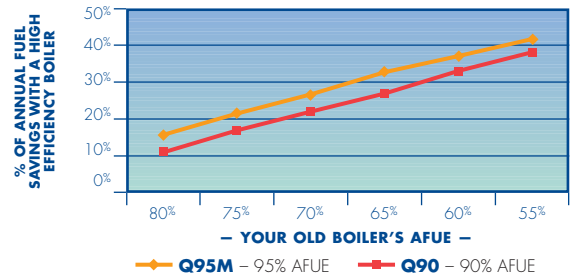
## Higher AFUE translates into significantly lower fuel bills

(AFUE = Annual Fuel Utilization Efficiency)

Higher AFUE = More heat for every dollar spent. AFUE works much like the miles-per-gallon rating on a car – the higher the rating, the lower the fuel costs. Installing a higher AFUE boiler can also equal cash back – energy-efficiency rebates or incentives may be available from the government or utility in your area.

The chart to the right can be used to estimate annual fuel cost savings for space heating when replacing an old, inefficient boiler with a new condensing boiler.

**Your Annual Fuel Savings Estimate**



\*This chart is for demonstration purposes only and does not constitute a guarantee of performance for any product.

## No Additional Pump Required reduces operating costs

The Quantum series electrical operating costs are lower than other high efficiency boilers because no additional dedicated pump is required to serve the boiler which is typical of competitive products. An additional dedicated pump would use about the same amount of electricity as a 100 to 200-watt light bulb, resulting in an additional savings of about \$50 to \$85 per year in electrical costs.\*

\*Actual savings may vary based on electrical cost per/kW HR. Savings estimate above based on \$.10/kW HR.

## Low Pressure Drop, cast aluminum heat exchanger is lightweight and corrosion resistant



The greater thermal conductivity of cast aluminum transfers heat three times faster than conventional cast iron, resulting in greater heat-up speed and operating efficiency. Also, the packaged boiler weighs significantly less than a cast iron boiler for easier installation. Ideal for high efficiency replacement jobs, new homes, radiant heating, and domestic hot water applications. No need to design/layout system (utilizes existing plumbing).

## Ideal for Use with In-Floor Radiant Systems

When used with low water temperature systems, the Quantum's efficiency is optimal. Unlike cast iron boilers, the Quantum does not require a return bypass or injection pumping system to preheat return water prior to entering the heat exchanger. This saves on material and labor costs since the cast aluminum heat exchanger works best at low water temperatures.



# Your leading value in... cost saving features

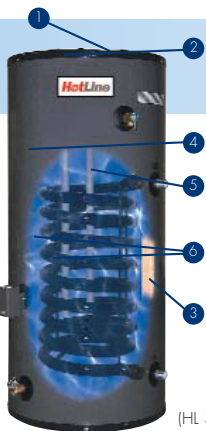
**Quantum**  
95M•200

## Infinitely Modulating Capacity from 80 to 200 MBH

An advanced microprocessor control continuously monitors supply and return water temperature, adjusting boiler output to match building load – ideal for applications with multiple zones.

## Outdoor Temperature Reset

Additional savings with factory standard control, which adjusts the water supply temperature for best possible fuel economy based on actual seasonal conditions.



## Domestic Hot Water Priority

Used with an indirect hot water heater, the Q95M saves water by redirecting heat where and when it's needed. No waiting for hot water.

1- Domestic Water Hot and Cold – SIDE CONNECTION - HL 30SK, HL 40SK, HL 50SK – HOT ONLY TOP CONNECTION - HL 80SK, HL 119SK – COLD ONLY BOTTOM/ SIDE - HL 80SK, HL 119SK 2- Coil Connections Include Dielectric Unions for Both Inlet and Outlet 3- 2" Foam Insulation 4- Heavy-Duty Steel Jacket 5- Replaceable Extra-Thick Magnesium Anode Rod 6- Corrosion Resistant Porcelain-Coated Enamel Smooth Coil and Interior Tank Walls

- Immersion Aquastats Standard on all Models
- Surface-mounted Thermostat
- Self-cleaning Drain Valve
- Factory Installed T & P Valve

(HL 30SK shown)

## Argo boiler controls completes the professional installation

**Argo**



AZ-4CP/AZ-6CP Four and Six Zone Valve Controls with Built-in Circulator or Zone Valve Priority Option

### Ideal for Indirect Hot Water Applications

- Choice of circulator or zone valve for priority
- Optimum performance with circulator priority, increasing hot water flow up to 20%
- Option for tankless coil boiler applications



### ARM Control Expandable Zone Relays 2, 3, 4 and 6 Zone Control

For more control options go to [www.argoindustries.com](http://www.argoindustries.com).

# gas fired water boiler specifications

## MODULATING CONDENSING GAS BOILERS

### QUANTUM 95M-200

Model	Input (MBH)	Heating Capacity	I-B-R Net Rating (MBH)	AFUE (%)	Dimensions (inches)			Flue Diameter	Shipping Weight (LBS)
					Height	Width	Depth		
Q95M	Max 200	190	165	95	39 3/8	18	30 7/8	3"	284
	Min 80	76	66	95	39 3/8	18	30 7/8	3"	284

## CONDENSING GAS BOILERS

### QUANTUM 90-200

Model	Input (MBH)	Heating Capacity	I-B-R Net Rating (MBH)	AFUE (%)	Dimensions (inches)			Flue Diameter	Shipping Weight (LBS)
					Height	Width	Depth		
Q90-125	125	112.5	98	90	40 1/4	20 1/8	32 5/16	3"	284
Q90-150	150	135	117	90	40 1/4	20 1/8	32 5/16	3"	284
Q90-175	175	157.5	137	90	40 1/4	20 1/8	32 5/16	3"	284
Q90-200	200	180	157	90	40 1/4	20 1/8	32 5/16	3"	284

### QUANTUM 90-100

Model	Input (MBH)	Heating Capacity	I-B-R Net Rating (MBH)	AFUE (%)	Dimensions (inches)			Flue Diameter	Shipping Weight (LBS)
					Height	Width	Depth		
Q90-50	50	45	39	90	39 1/2	28	19 3/4	2"	256
Q90-75	75	68	59	90	39 1/2	28	19 3/4	3"	256
Q90-100	100	90	78	90	39 1/2	28	19 3/4	3"	256

## CAST IRON GAS BOILERS

### OSC

Model	Input (MBH)	Heating Capacity	I-B-R Net Rating (MBH)	AFUE (%)	Dimensions (inches)			Flue Diameter	Shipping Weight (LBS)
					Height	Width	Depth		
OSC3	50	44	38	87	30 3/4	15 1/8	27	3"	315
OSC4	100	87	76	87	30 3/4	19	27	3"	365
OSC5	140	122	107	87	30 3/4	22 7/8	27	3"	430

### ODV-B

Model	Input (MBH)	Heating Capacity	I-B-R Net Rating (MBH)	AFUE (%)	Dimensions (inches)			Flue Diameter	Shipping Weight (LBS)
					Height	Width	Depth		
ODV-50B	50	42	37	83	30 3/4	11 1/4	27	3"	203
ODV-75B	75	62	54	82	30 3/4	15 1/8	27	3"	268
ODV-100B	100	82	71	82	30 3/4	15 1/8	27	3"	268
ODV-125B	125	103	90	82	30 3/4	19	27	3"	303

### OMGB

Model	Input (MBH)	Heating Capacity	I-B-R Net Rating (MBH)	AFUE (%)	Dimensions (inches)			Flue Diameter	Shipping Weight (LBS)
					Height	Width	Depth		
OMGB-50	50	42	37	84.1	30 3/4	11 1/8	27	4"	205
OMGB-75	75	63	55	83.1	30 3/4	15	27	5"	253
OMGB-100	100	83	72	83	30 3/4	15	27	6"	253
OMGB-125	125	104	90	82	30 3/4	18 7/8	27	6"	315
OMGB-150	150	124	108	83	30 3/4	18 7/8	27	7"	315

**STANDARD EQUIPMENT:** Aluminum monoblock boiler with painted metal and plastic jacket, high limit aquastat, circulator (Grundfos), manual reset LWCO, pressure gauge, temperature display, 30 psi A.S.M.E. approved relief valve, air purge vent, service switch, service receptacle outlet, microprocessor based modulating control, modulating burner, modulating automatic gas valve, modulating blower, direct spark igniter, manual reset casting temperature switch, air proving/blocked vent safety assembly, integral condensate trap, outdoor temperature sensor with cover, LP conversion kit standard.

**STANDARD EQUIPMENT:** Assembled boiler with painted cabinet, high limit aquastat, transformer, 1 1/4" Taco (or Grundfos) circulator with isolation ball valves, low water cut off, temperature and pressure gauge, 30 psi A.S.M.E. approved relief valve, air vent, service switch, condensate drain trap kit, microprocessor based integrated boiler control, stainless steel premix burner, automatic gas valve, hot surface igniter, casting temperature safety switch, air flow proving switches (2), forced draft blower.

**STANDARD EQUIPMENT:** Assembled boiler with painted cabinet, high limit aquastat, transformer, 1 1/4" Taco (or Grundfos) circulator, temperature and pressure gauges, 20 psi A.S.M.E. approved relief valve, air vent, service switch, microprocessor based integrated boiler control, stainless steel premix burner, automatic gas valve, hot surface igniter, casting and vent temperature safety switches, air flow proving switch.

**STANDARD EQUIPMENT:** Boiler jacket, cast iron heat exchanger, limit control, removable transformers, plug-in relay, thermometer gauge, circulator (field mounted), main gas burners, hot surface pilot, A.S.M.E. approved relief valve, drain valve, induced draft fan and safety pressure switch, combination intake/exhaust termination kit.

**STANDARD EQUIPMENT:** Boiler jacket, cast iron boiler, combination aquastat relay, combination temperature/pressure gauge, circulator, main gas burners, electronic ignition system, A.S.M.E. approved relief valve, drain valve, induced draft fan and safety pressure switch.

**OPTIONAL EQUIPMENT:** B-vent adapter kits, combustible floor kit.

**STANDARD EQUIPMENT:** Boiler jacket, cast iron section, combination aquastat relay, thermometer gauge, circulator (field mounted), main gas burners, combination 24-volt gas control (includes automatic gas valve, gas pressure regulator, automatic pilot, safety shut-off, pilot flow adjustment, pilot filter), A.S.M.E. approved relief valve, drain valve, spill switch, rollout switch, automatic vent damper.

**OPTIONAL EQUIPMENT:** Combustible floor kit. Conversion Kits: Natural gas to propane or propane to natural gas.



Ask your installer  
about our our enviroair  
ductless split systems!



ECR International  
2201 Dwyer Ave., Utica, NY 13504  
Tel: (315) 797-1310 or (800) 325-5479  
Fax: (315) 724-9319  
Web: [www.ecrinternational.com](http://www.ecrinternational.com)

Specifications and dimensions are subject to change without notice.