
The [AI] Control measures water temperature, fluegas temperature, flame signal, and pressure that can impact the boiler operation and CO levels. The [AI] Control will automatically shut down operation should these values exceed normal operating levels. This provides added protection for you and your family.

Dunkirk prides ourselves on safety. Though the [AI] Control indirectly monitors CO levels and acts accordingly, it is not a replacement for a CO Detector in your home.

[AI] CONTROL

- Digital Control with Graphic Display
- Boiler Status
- Temperature Display
- Diagnostics
- Automatically Adjusts for Fuel Type and Continuous Calibration
MODULATING TECHNOLOGY

The [AI] Control automatically modulates the gas input to the burner.

During times when the domestic hot water or heating demand is high, the control increases the amount of gas in order to meet the requirement. During times when the load demand is less, the [AI] Control decreases the gas input to only use the amount of fuel necessary.

DID YOU KNOW...

...that the typical gas-fired water heater is wasting energy by constantly maintaining the temperature of the water in the tank?

It’s true. So why spend money continually heating water that you’re not even using? There is a better modern solution when replacing your heating boiler. Consider a DCC combination boiler or, “combi boiler.”

The benefits of the DCC combi boiler include:

- the highest efficiency level at 95% AFUE.
- space savings/wall mounted.
- the ability to both heat your home as well as provide your domestic hot water needs.
- eliminates the wasted energy associated with traditional gas water heaters.
- MONEY SAVINGS. By automatically modulating the gas input to the heating level that is needed, the boiler system operates at optimum efficiency, resulting in savings for you.

The DCC combi boiler provides both your home heating needs and your domestic hot water needs in one super-efficient on-demand appliance.

Everyone enjoys the comfort.

- **Homeowners** enjoy comfort, energy savings, and lower utility bills.
- **Contractors** enjoy the comfort of satisfied customers.

[AI] modulation saves energy by reducing the amount of gas used. Homeowners enjoy comfort, energy savings, and lower utility bills.

Self-MONITORING
Self-ADJUSTING
Self-COMMISSIONING

OPTIMUM EFFICIENCY

REFER TO SPECIFICATIONS FOR CAPACITY AND FIRING RATE INFORMATION.
• 95% AFUE

• Featuring [AI] Control Technology
  Recognizes Natural or LP Gas
  -No field conversion kit required
  -Self-Monitors and adjusts for fuel savings
  -Automatic Commissioning Combustion

• 7:1 Turndown Modulation Ratio in DHW Mode (all models)
• 5.7:1 Turndown Modulation Ratio in Heating Mode (150/125)
• 5.5:1 Turndown Modulation Ratio in Heating Mode (205/165)

• Primary/Secondary LABOR SAVER™
  Manifold Included

• Warranty Coverage
  -FREE 2-Year Parts & Labor Limited Warranty*
  -10-Year Limited Heat Exchanger

• Innovative American Manufacturing

EXCEPTIONAL SUPPORT

When it comes to support, Dunkirk offers service that’s beyond compare.

Our US-based support team is here for you AND your customers.

Our Dealer Portal offers a variety of resources, including tutorial videos and product specifications to help you every step of the way, from installation to maintenance to repair.

www.dunkirkdealer.com

SAVE TIME & INCREASE PRODUCTIVITY with our LABOR SAVER™ MANIFOLD.

Dunkirk condensing boilers come with a FREE LABOR SAVER™ MANIFOLD, WARRANTY, and SUPPORT matched by no other manufacturer.

*Unit must be registered within 60 days from the date of original installation. All terms of Trinity Extended Service Agreement apply.
**A CLOSER LOOK...**

- Auto Commissioning and Continuous Calibration functions optimize combustion and result in lower fuel bills.
- Features 316L Stainless Steel Heat Exchanger and Burner.
- Features such as, high limit sensors, pressure relief valve, low water sensor, and system pressure gauge ensure safety and top performance of the unit.
- Control Panel features a backlit digital display that indicates boiler status, temperature, and diagnostics.
- Preheat function.
- Built-in load matching Pump contributes to savings in electrical usage.

**COMBI MODEL**

**HEATING ONLY MODEL**

**HEATING MODEL WITH OPTIONAL INDIRECT HOT WATER HEATER**

Our [AI] control is programmed to recognize an indirect tank, with no need for a separate relay. Dunkirk H2O Indirect Hot Water Heaters are available in 30 to 115 gallon capacities and feature 316L stainless steel construction and top connections for an easy installation.
**STANDARD EQUIPMENT**

**Heat Exchanger:** 316L Stainless Steel Burner. DCC-205 and DCC-165 are also equipped with a stainless steel brazed plate heat exchanger.

**Primary/Secondary LABOR SAVER™ Manifold**

**Boiler Control Module:** High Limit/Electronic Ignition Control

**User Display Interface:** Digital Temperature Display with diagnostics and programmable settings

**Adaptive Combustion:** Automatically Modulating Gas Valve, Stainless Steel Burner, Direct Spark Ignition, Separate Flame Sensor, 100% shutoff

**Other:** Assembled Boiler with Jacket, Induced Draft Fan, High limit sensors, 30psi Relief Valve, Low Water Pressure Switch, and Temperature/Pressure Gauge. Built-in Load Matching Pump

**LEARN MORE!**

You can learn more about the DCC/DCB and our full line of products, services, training and support by visiting our website, or check out our Facebook page.

[www.dunkirk.com](http://www.dunkirk.com)
## PHYSICAL DATA

**PRODUCT DIMENSIONS**

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>125 &amp; 150</th>
<th>205 &amp; 165</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEIGHT</td>
<td>30” [763mm]</td>
<td>30” [763mm]</td>
</tr>
<tr>
<td>WIDTH</td>
<td>17 3/4” [450mm]</td>
<td>17 3/4” [450mm]</td>
</tr>
<tr>
<td>DEPTH</td>
<td>13 9/16” [345mm]</td>
<td>21 1/2” [571]</td>
</tr>
<tr>
<td>CONDENSATE TRAP CONNECTION</td>
<td>13/16” [21mm] ID Hose</td>
<td>3/4” [19.1mm] NPT</td>
</tr>
<tr>
<td>SYSTEM SUPPLY</td>
<td>3/4” [19.1mm]</td>
<td>1” [25.4mm]</td>
</tr>
<tr>
<td>DHW OUTLET (125 OPTIONAL)</td>
<td>1/2” [15.9mm]</td>
<td>3/4” [19.1mm]</td>
</tr>
<tr>
<td>GAS CONNECTION</td>
<td>3/4” [19.1mm]</td>
<td>3/4” [19.1mm]</td>
</tr>
<tr>
<td>DHW (COLD WATER) INLET</td>
<td>1/2” [15.9mm]</td>
<td>3/4” [19.1mm]</td>
</tr>
<tr>
<td>SYSTEM RETURN</td>
<td>3/4” [19.1mm]</td>
<td>1” [25.4mm]</td>
</tr>
<tr>
<td>BOILER FILLING CONNECTION</td>
<td>1/2” [15.9mm]</td>
<td>External to Boiler</td>
</tr>
<tr>
<td>PRIMARY WATER CONTENT</td>
<td>1 gal [3.60L]</td>
<td>1 1/4 gal [4.73L]</td>
</tr>
</tbody>
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**BOTTOM VIEWS**

125 HEAT-ONLY

150 COMBI

165 HEAT-ONLY

205 COMBI
## PRODUCT SPECIFICATIONS

### IN DOMESTIC HOT WATER MODE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT MBH (MAX)</th>
<th>INPUT MBH (MIN)</th>
<th>FLOW RATE (Gallons per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMBI</td>
<td>153</td>
<td>22</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>205</td>
<td>29.5</td>
<td>5.0</td>
</tr>
</tbody>
</table>

### IN SPACE HEATING MODE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT MBH (MAX)</th>
<th>INPUT MBH (MIN)</th>
<th>Heating Capacity MBH</th>
<th>Efficiency AFUE %</th>
<th>Net Water MBH (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMBI</td>
<td>125</td>
<td>22</td>
<td>113</td>
<td>95</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>164</td>
<td>29.5</td>
<td>153</td>
<td>95</td>
<td>133</td>
</tr>
<tr>
<td>HEAT ONLY</td>
<td>125</td>
<td>22</td>
<td>113</td>
<td>95</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>164</td>
<td>29.5</td>
<td>153</td>
<td>95</td>
<td>133</td>
</tr>
</tbody>
</table>

### VENT MATERIAL / SIZE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COAXIAL (2)</th>
<th>2-PIPE POLYPROPYLENE (2)</th>
<th>2-PIPE CPVC (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMBI</td>
<td>2/4” (60mm/100mm)</td>
<td>2” or 3” (60mm or 80mm)</td>
<td>3” (80mm)</td>
</tr>
<tr>
<td></td>
<td>3/5” (80mm/125mm)</td>
<td>2” or 3” (60mm or 80mm)</td>
<td>3” (80mm)</td>
</tr>
<tr>
<td>HEAT ONLY</td>
<td>2/4” (60mm/100mm)</td>
<td>2” or 3” (60mm or 80mm)</td>
<td>3” (80mm)</td>
</tr>
<tr>
<td></td>
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<td>2” or 3” (60mm or 80mm)</td>
<td>3” (80mm)</td>
</tr>
</tbody>
</table>

### BOILER CLEARANCES

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>Combustible Materials (3)</th>
<th>Manufacturer Recommended for SERVICE (3)(4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP</td>
<td>0” (0cm)</td>
<td>8-5/8” (220mm)</td>
</tr>
<tr>
<td>LEFT</td>
<td>1-3/4” (45mm)</td>
<td>1-3/4” (45mm)</td>
</tr>
<tr>
<td>RIGHT</td>
<td>1-3/4” (45mm)</td>
<td>1-3/4” (45mm)</td>
</tr>
<tr>
<td>FRONT</td>
<td>0” (0cm)</td>
<td>17-3/4” (450mm)</td>
</tr>
<tr>
<td>BACK</td>
<td>0” (0cm)</td>
<td>0” (0cm)</td>
</tr>
<tr>
<td>BOTTOM</td>
<td>0” (0cm)</td>
<td>*9-13/16” (250mm)</td>
</tr>
<tr>
<td>COMBUSTION AIR/VENT PIPING</td>
<td>0” (0cm)</td>
<td>6” (160mm)</td>
</tr>
</tbody>
</table>

(1) Net Water Rating shown based on piping and pickup allowance of 1.15. Consult manufacturer before selecting boilers for installation having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

(2) Refer to IOM and vent pipe manufacturer’s instructions for equivalent lengths and approved venting materials

(3) Required distance measured from boiler jacket.

(4) Service, proper operation clearance recommendation.

* Allowance for piping at the bottom of the boiler not included.

## CERTIFICATIONS

![Various certification logos]

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All specifications subject to change without notice.
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