



**Lochinvar**<sup>®</sup>  
HIGH EFFICIENCY BOILERS & WATER HEATERS

**COPPER-FIN2<sup>®</sup>**  
**GAS HEATER**  
**Submittal Sheet**

**CP-Sub-16**

**COPPER-FIN2<sup>®</sup> COMMERCIAL GAS HEATERS FOR POOL HEATING**

**JOB NAME** \_\_\_\_\_

**LOCATION** \_\_\_\_\_

**ENGINEER** \_\_\_\_\_

**WHOLESALER** \_\_\_\_\_

**MECH. CONTRACTOR** \_\_\_\_\_

**MODEL NO.** \_\_\_\_\_

**TYPE GAS** \_\_\_\_\_

**Btu/hr INPUT** \_\_\_\_\_

**Btu/hr OUTPUT** \_\_\_\_\_

**NOTES**

**STANDARD FEATURES** \_\_\_\_\_

- › 85% Thermal Efficiency
- › Proportional Firing up to 4:1 Turndown
  - › Hot Surface Ignition
  - › Low NOx Operation
  - › Sealed Combustion
  - › Low Gas Pressure Operation
- › Vertical & Horizontal Venting
  - › Category I Venting
    - › Double Wall "B" Vent Material
  - › Category IV Venting
    - › AL29-4C Stainless Steel Vent Material
- › ASME Copper Finned Tube Heat Exchanger
  - › ASME Certified, "H" Stamped
  - › Gasketless design
  - › 160 psi working pressure
- › On/Off Switch
- › Adjustable High Limit w/ Manual Reset
- › Combustible Floor Rated (0992-2072)
- › Temperature & Pressure Gauge
- › Flow Switch
- › All Bronze Pump
- › Low Air Pressure Switch
- › Inlet & Outlet Temperature Sensors
- › Easy Access Terminal Strips
- › Downstream Test Cocks
- › 150 psi ASME Temperature & Pressure Relief Valve
- › 1 Year Warranty on Parts (See Warranty for Details)
- › 5 Year Limited Warranty (See Warranty for Details)

**SMART SYSTEM™ FEATURES** \_\_\_\_\_

- › SMART SYSTEM™ Operating Control
- › 2 Line/16 Character LCD Display
- › Built in Cascading Sequencer for up to 8 heaters
- › Password Security
- › Low Water Flow Control & Indication
- › Inlet & Outlet Temperature Readout
- › Freeze Protection
- › Service Reminder
- › Time Clock
- › Data Logging
  - › Hours Running
  - › Ignition Attempts
  - › Last 10 Lockouts
- › Pump Control
  - › Pool Heater Pump
- › High Voltage Terminal Strip
  - › 120 VAC / 60 Hertz / 1 Phase Power Supply
  - › Pump Contacts with Pump Relay
- › Low Voltage Terminal Strip
  - › 24 VAC Auxiliary Device Relay Output - Louvers
  - › Auxiliary Proving Switch Contacts - Louvers
  - › Alarm on Any Failure Contacts
  - › Runtime Contacts
  - › Contacts for Air Louvers
  - › Contacts on Any Failure
  - › Unit Enable/Disable Contacts
  - › 0-10V Rate Contacts
  - › Pool Sensor Contacts
  - › Pool Supply Sensor Contacts
  - › Cascade Contacts

**OPTIONAL EQUIPMENT** \_\_\_\_\_

- › Vertical Bypass Loop
- › Alarm
- › High & Low Gas Pressure Switches w/ Manual Reset
- › Cupro-Nickel Heat Exchanger
- › Low Water Cut Off, Probe Type w/ Manual Reset & Test
- › Texas Pool Code (Outdoor Flow Switch and T&P Gauge)
- › Modbus Communications
- › Combustible Floor Kit (0502-0752)
- › Stack Frame

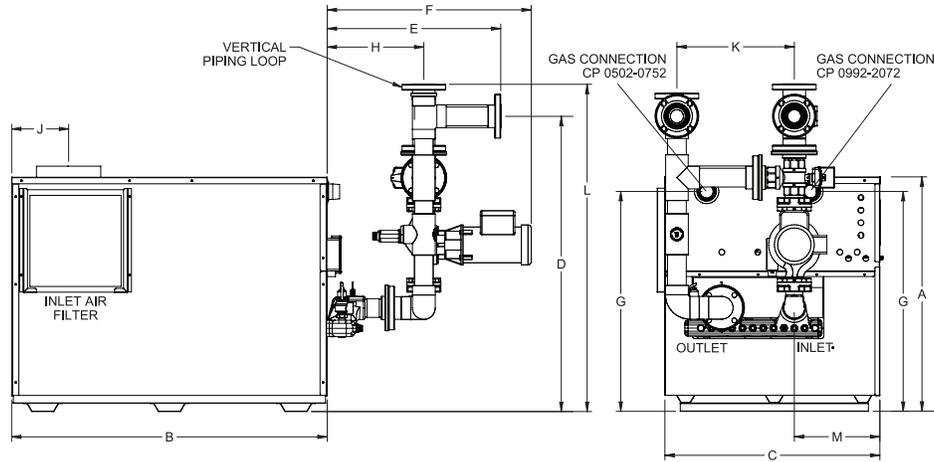
**FIRING CODES** \_\_\_\_\_

- › M7 Firing Code - California Code
- › M9 Firing Code - Hot surface ignition with Electronic Supervision

**CERTIFICATIONS** \_\_\_\_\_

- › ANSI Z21.56/CSA 4.7 certified
- › CSD1 / Factory Mutual / GE Gap Compliant
- › South Coast Air Quality Management District registered
- › Texas Commission on Environmental Quality

# Copper-Fin<sup>2</sup>® Commercial Gas Heater Dimensions & Specifications



Model Number	Input MBH	A	B	C	D	E	F	G	H	J	K	L	M	Vent Size	Air Inlet	Gas Conn	Ship Wt.
CPN502	500	31-1/2"	45-1/2"	22-1/4"	38"	20-1/4"	26-1/2"	29"	9-3/4"	7"	12-3/4"	41-1/4"	9"	6"	6"	1-1/4"	523
CPN652	650	31-1/2"	56-3/4"	22-1/4"	38"	20-1/4"	26-1/2"	29"	9-3/4"	8-1/2"	12-3/4"	41-1/4"	9"	8"	8"	1-1/4"	665
CPN752	750	31-1/2"	64"	22-1/4"	38"	20-1/4"	26-1/2"	29"	9-3/4"	8-1/2"	12-3/4"	41-1/4"	9"	8"	8"	1-1/4"	713
CPN0992	990	36"	48-1/4"	33-1/2"	48-1/4"	26-3/4"	30-1/4"	33-1/4"	13-1/4"	8-1/2"	18-1/4"	52"	13"	10"	10"	2"	864
CPN1262	1,260	36"	58-1/2"	33-1/2"	48-1/4"	26-3/4"	30-1/4"	33-1/4"	13-1/4"	10-1/2"	18-1/4"	52"	13"	12"	12"	2"	954
CPN1442	1,440	36"	68-3/4"	33-1/2"	48-1/4"	26-3/4"	30-1/4"	33-1/4"	13-1/4"	10-1/2"	18-1/4"	52"	13"	12"	12"	2"	1,042
CPN1802*	1,800	36"	82-1/4"	33-1/2"	48-1/4"	26-3/4"	30-1/4"	33-1/4"	13-1/4"	11"	18-1/4"	52"	13"	14"	12"	2"	1,233
CPN2072*	2,070	36"	92-1/2"	33-1/2"	48-1/4"	26-3/4"	30-1/4"	33-1/4"	13-1/4"	11"	18-1/4"	52"	13"	14"	12"	2"	1,285

Notes: Change 'N' to 'L' for LP gas models.

No deration on LP models.

Water connections for models CP 0502-0752 are 2" flanged.

Water connections for models CP 0992-2072 are 2-1/2" flanged

Performance data is based on manufacturer test results. \*Cupro-Nickel Heat Exchanger is standard on these models.

## Venting Options

- Aire-Lock Direct Vent Sealed Combustion
- Conventional
- DirectAire® Vertical
- DirectAire® Vertical w/ Sidewall Inlet
- Outdoor
- Powered DirectAire® Horizontal
- Powered Sidewall
- Sidewall



Lochinvar, LLC  
 300 Maddox Simpson Parkway  
 Lebanon, Tennessee 37090  
 P: 615.889.8900 / F: 615.547.1000  
 Lochinvar.com

