



COPPER-FIN²[®]
GAS HEATER
Submittal Sheet

CP-Sub-16

COPPER-FIN²[®] COMMERCIAL GAS HEATERS FOR POOL HEATING

Job Name: _____ Contractor: _____
Location: _____ Model No. _____
Engineer: _____ Type Gas _____
Wholesaler: _____ 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
 - High & Low Gas Pressure Switches w/ Manual Reset
 - 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 on Any Failure
 - Contacts for Air Louvers
 - Unit Enable/Disable Contacts
 - 0-10V Rate Contacts
 - Pool Sensor Contacts
 - Pool Supply Sensor Contacts
 - Cascade Contacts

OPTIONAL EQUIPMENT

- Vertical Bypass Loop
- Alarm
- 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
- Bronze Headers (0992-2072)

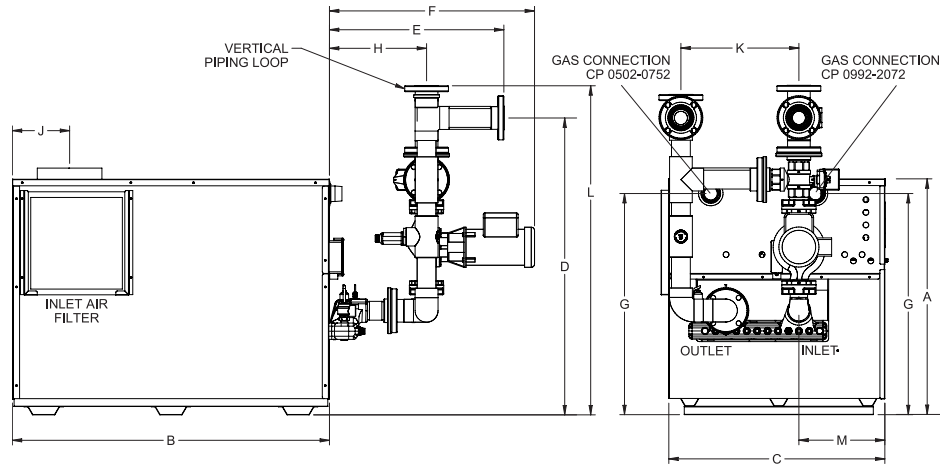
FIRING CODES

- 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-Fin²® Commercial Gas Heater Dimensions & Specifications



Model Number	Input Btu/Hr	A	B	C	D	E	F	G	H	J	K	L	M	Vent Size	Air Inlet	Gas Conn	Ship Wt.
CPN502	500,000	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	650,000	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	750,000	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	990,000	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	1,260,000	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	1,440,000	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*	1,800,000	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*	2,070,000	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.

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

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

No deration on LP models.

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

VENTING OPTIONS

Aire-Lock Direct Vent Sealed Combustion

Conventional

DirectAire® Vertical

DirectAire® Vertical w/ Sidewall Inlet

Outdoor

Powered DirectAire® Horizontal

Powered Sidewall

Sidewall



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