



Copper-Pak® Commercial Gas Water Heaters

The Copper-Pak packs the high efficiency of the Copper-Fin water heater into a unique space-saving design. It's an excellent alternative to traditional tank-type water heaters. Shipped complete in one box, with all piping included and ready for installation.

Introducing Our Best Idea Yet

Think of the Copper-Pak as two separate units stacked on top of each other—a highly efficient Copper-Fin (CW series) water heater and a dedicated hot water storage tank. By combining the two in one unique design, we've reduced the footprint. That makes it easier to install in place of conventional tank-type water heaters.

Plus, thanks to copper finned-tube technology, the Copper-Pak has efficiencies up to a remarkable 82% – far exceeding most tank type water heaters. In fact, our 85 gallon - 180,000 Btu/hr model performs as well as most 100 gallon - 200,000 Btu/hr tank-type water heaters. It produces just as much hot water, but at a much lower cost.

High Performance, Not High Cost

The Copper-Pak keeps performing at peak efficiency levels for years. With ordinary tank-type water heaters, lime scale build-up in the bottom of the tank can reduce efficiency by as much as 44% in just four years – but not with the Copper-Pak. Our products are engineered for scale-free performance.

Since there's only a half-gallon of hot water in the heat exchanger at any given time, stand-by losses are extremely low – making the Copper-Pak less expensive to own and operate. And the Copper-Pak is priced competitively to give you greater promotion and sales opportunities.

New Replacements, Same Old Problems

With conventional tank-type water heaters every replacement is a challenge. Overall heights have changed with the addition of flue dampers, which often requires that piping and venting material be cut and removed. And water connections are inconsistent, sometimes on top, sometimes in the front, and sometimes in the rear...the same old problems.

The Copper-Pak doesn't require a flue damper to meet stand-by loss requirements, it operates off a tried and true standing pilot ignition system, and it maintains its high 82% efficiency for years. Make the same old problems a new opportunity for you with the Copper-Pak, only from Lochinvar.



As Easy To Service As It Is Reliable

Another Copper-Pak advantage is its remarkable durability. It has an average useful life of 13 years, more than twice that of standard tank-type water heaters. And all main components are at a comfortable working height, so it can be serviced without crawling around on the floor.

Plus, unlike conventional tank-type water heaters, the tank can be replaced separately. Even the heat exchanger is designed to simply slide out. What's more, its unique design and lightweight Loch-Heat™ ceramic tile make the Copper-Pak half the weight of most comparable-size water heaters.

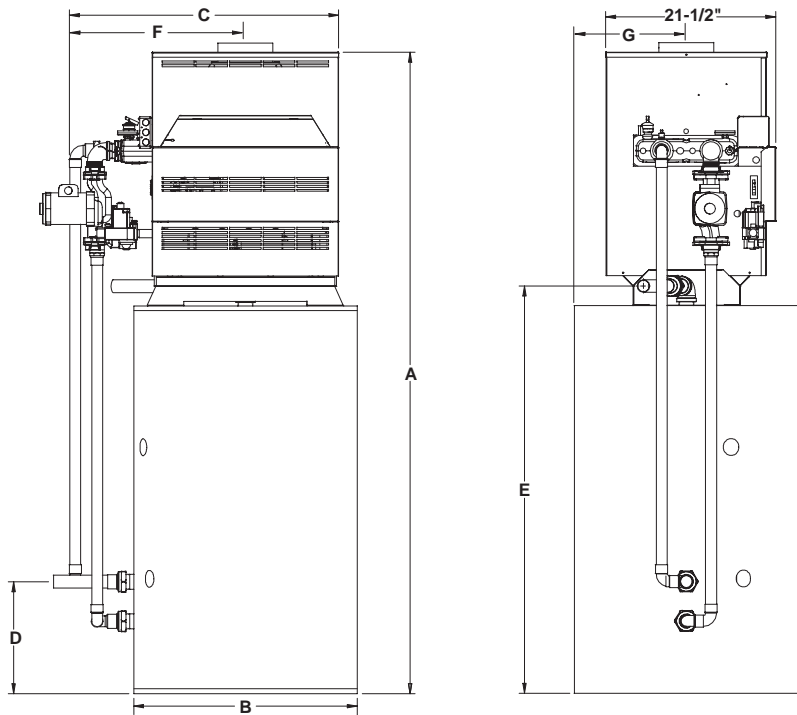
Copper-Pak® Dimensions and Specifications

Standard Features

- 82% Thermal Efficiency
- Built-In Draft Diverter
- Stainless Steel Burners
- ASME Copper Finned Tube Heat Exchanger
- 160 psi Working Pressure
- Gasketless Heat Exchanger Design
- All Bronze Circulating Pump
- Pump Delay
- Glass-Lined Water Surfaces
- Loch-Heat Ceramic Tile Combustion Chamber
- ASME Temperature & Pressure Relief Valve (Heater Only)
- Manual Reset High Limit
- Automatic Reset High Limit
- 24 Volt Control System
- R16 Foam Insulated, Glass-Lined Storage Tank
- Brass Drain Valve (Tank Only)
- 5 Year Limited Warranty on Tank
- 3 Year Limited Warranty on Heat Exchanger

Optional Equipment

- Cupro-Nickel Heat Exchanger
- Flow Switch
- Low Water Cut-Off
- Adjustable High Limit w/ Manual Reset



Model Number	Btu/hr Input	Gallon Capacity	GPH @ 100°F Rise	A	B	C	D	E	F	G	Vent Size	Gas Conn.	Shipping Weight
CPN180-85	180,000	85	179	80"	28"	34"	14-1/4"	50-1/4"	22-1/4"	14-1/4"	7"	3/4"	700
CPN199-85	199,999	85	198	80"	28"	37"	14-1/4"	50-1/4"	23-3/4"	14-1/4"	7"	3/4"	710
CPN199-100	199,999	100	198	76-1/2"	32"	37-1/2"	16-1/4"	47"	24-1/4"	16"	7"	3/4"	815
CPN270-100	270,000	100	268	76-1/2"	32"	40-1/2"	16-1/4"	47"	25-1/2"	16"	8"	3/4"	850
CPN360-100	360,000	100	358	76-1/2"	32"	46"	16-1/4"	47"	28-1/4"	16"	9"	1"	880

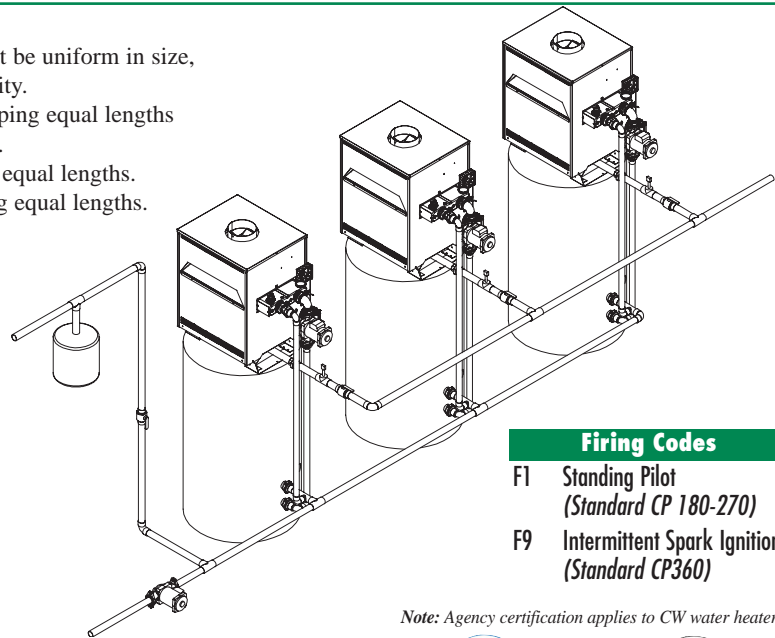
Note: Water connections are 1-1/2" copper on all models. Change "N to "L" for LP gas models. Performance data is based on manufacturer's test results.

Reverse Flow Manifolds - Multiple Copper-Paks

No. of Units	Common Manifold Size (Min.)
1	1-1/2"
2	2"
3	2-1/2"
4	3"
5	3-1/2"
6	4"

Note:

- All heaters must be uniform in size, style and capacity.
- All manifold piping equal lengths center to center.
- All inlet piping equal lengths.
- All outlet piping equal lengths.

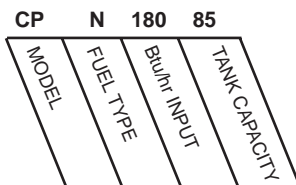


Firing Codes

- F1 Standing Pilot (Standard CP 180-270)
- F9 Intermittent Spark Ignition (Standard CP360)

Note: Agency certification applies to CW water heater.

FOR EASE IN ORDERING
BY MODEL NUMBER



This heater is 180,000 Btu/hr natural gas Copper-Pak water heater with an 85 gallon tank.



Lochinvar®
High Efficiency Water Heaters, Boilers and Pool Heaters



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