



**BETTER IDEA**   
**A Better Solution for  
 Your Hot Water Needs**

## Save Time, Space and Money

### Lime Scale Build-up Can Cause Early Failure



Lime scale build-up can cause traditional tank type water heaters to fail in as little as 2 - 5 years. It also insulates water from the heat source, so more energy is needed to heat the water. Even just 1/4 inch of lime scale build-up, can increase operating costs as much as 25%. Over a five year period, your fuel efficiency can drop

44% or more, costing you 44¢ for every fuel dollar you spend.

Our better idea line of water heaters is the result of innovative thinking to combat the debilitating effects of lime scale. It's a dual component concept that works like this:

A constant flow of water passes through a heat exchanger where it is heated and sent to an unfired storage tank. Lime scale is deposited there, separating it from the heat source. This circulating tank approach prevents lime scale from building up on the heat exchanger and decreasing efficiency.

### Lower Replacement Costs

When you replace a tank type system, you pay for a complete unit plus the labor to install it - an average of \$2,500 or more. Our better idea means you only replace individual, less expensive components such as the cartridge type heat exchanger, pump or storage tank.

### Greater Draw Capacity

Draw capacity is the amount of usable hot water you can draw from your storage tank. Our better idea delivers 90% draw capacity compared to 65% from a typical tank-type unit. That's 20 more gallons from a 80 gallon tank. That means a 100 gallon tank type provides 65 gallons of usable hot water, while a 80 gallon tank in the Better Idea system will provide 72 gallons.



### Lower Operating Costs

Because traditional tank-type heaters deposit lime scale directly above the burner, the heat source is insulated from the water. This requires more energy to heat the water. This means that, from day one, efficiency drops as lime scale increases.

With the Lochinvar Better Idea, you'll use less energy to deliver the same amount of hot water, so your energy costs will be much less. And as shown in the charts, the efficiency of our products remains high - at 82% over the life of the unit.

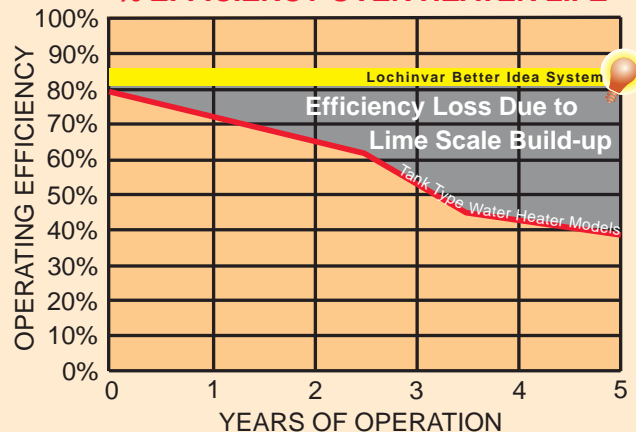


### Dual Component Concept

A constant flow of water passes through a heat exchanger where it is heated and sent to an unfired storage tank. Lime scale is deposited there, separating it from the heat source. You save time, money and replacement costs because heat transfer and water storage components are kept separate.



### % EFFICIENCY OVER HEATER LIFE



## Compare and Then Choose the Better Idea

### Tank Type Water Heaters 199,999 Btu/Hr 100-gal. tank

### Lochinvar Better Idea 180,000 Btu/Hr 80-gal. tank

Draw Capacity (First Hour Delivery)	65% (247 Gallons)
Overall Efficiency	78%
Efficiency After 4 Years	42%
Warranty	3 Years
*Initial Cost (Not Including Labor)	\$2,500
Ease of Repair	Replace Entire Unit
Replacement Costs	\$2,500
Footprint (Including Required Clearances)	Average 28 sq. ft.



90% (252 Gallons)
82%
82%
3 Years - Heat Exchanger 5 Years - Storage Tank
The Same or Less
Only Replace Faulty Component
\$1200 or Less (Per Component)
Up to 30% Less



\*Estimated end user cost



These charts indicate the recovery capacities, storage volume and weight for commercial tank type water heaters and the Better Idea. As you can see the initial recoveries are nearly the same, however over time with scale build up in a tank type, as discussed before, these recovery rates decrease. Additionally, the weight of the tank type water heater is considerably more, requiring extra labor for installation and positioning of the equipment.

### Charger® Tank Type Models

Model Number	Btu/Hr Input	Gal. Cap.	GPH @ 100 F Rise	Shipping Weight*
CNR085-100	85,000	100	82	420
CNR125-075-DF9	125,000	75	121	520
CNR180-080-DF9	180,000	80	175	540
CNR200-080-DF9"	199,999	80	194	540
CNR199-100-DF9	199,999	100	194	725
CNR250-100-DF9"	250,000	98	242	610
CNR300-075-DF9	300,000	75	291	590
CNR370-065-DF9	370,000	65	359	665
CNR400-080-DF9"	399,999	80	388	800
CNR500-080-DF9"	505,000	80	496	800

\*Dry weight of the unit upon installation, the weight of the tank upon removal with scale build-up may be up to 100 pounds more.

### Better Idea Heater

Model Number	Btu/Hr Input	GPH @ 100°F Rise	Shipping Weight
CWN090PM	90,000	89	175
CWN135PM	135,000	134	195
CWN180PM	180,000	179	220
CWN199PM	199,999	198	230
CWN225PM	225,000	224	235
CWN270PM	270,000	268	240
CWN315PM	315,000	313	250
CWN360PM	360,000	358	270
CWN399PM	399,999	397	340
CWN500PM	500,000	497	365

### Better Idea Storage Tank

Model Number	Gal. Cap.	Shipping Weight 150 psi
RJS080	78	192
RJS120	119	345
RJA120	119	365
RJA175	175	525
RJA200	200	600



Other options are also available using the same money saving technology as the Better Idea System. The Lochinvar Copper-Pak® with space saving design and Efficiency-Pac® with higher thermal efficiency and flexible venting options are great alternatives when choosing a solution for your hot water needs.



# BETTER IDEA



**Lochinvar**  
High Efficiency Water Heaters, Boilers and Pool Heaters



Lochinvar Corporation • 300 Maddox Simpson Pkwy • Lebanon, TN 37090 • 615-889-8900 / Fax: 615-547-1000

[www.Lochinvar.com](http://www.Lochinvar.com)