

# New Series 3 - Upgrades to last a lifetime

NEW corrosion resistant stainless steel design to handle all types of water conditions

New dry well design

Commercial tanks now enjoy same jacket design as residential:

2 inches of insulation (CFC free)

Less than 1/2 degree/hour standby loss

Durable material to resist denting/cracking

Weil-McLain support and warranty included

Includes all the upgrades the market asked for

New size: Plus 110

Tank in Tank design - no coils to maintain!

Resists liming leading to efficiency deterioration

Maximizes heat exchanger surface for ultimate efficiency



**WEIL-McLAIN**

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Indirect-Fired Water Heaters

# Weil-McLain redefines heating. All over again.

## Size a water heater yourself

Use the worksheet below to calculate the right size water heater for your needs.

### Fixture Count Guide

To quickly estimate the minimum gallons of hot water required based on family size, number of baths and hot water appliances. The First Hour Rating of the Plus water heater must be equal to-or exceed-the total first hour requirements.

#### Calculation #1

##### Description

##### Fill in the blank

##### Example

40 Gallons for first 2 people.

\_\_\_\_\_ Gals.

40 Gals.

10 Gallons for each additional person.

\_\_\_\_\_ Gals.

30 Gals.

20 Gallons for each bath after the first.  
(consecutive bath)

\_\_\_\_\_ Gals.

20 Gals.

10 Gallons if dishwasher is used.

\_\_\_\_\_ Gals.

10 Gals.

20 Gallons if clothes washer is used.

\_\_\_\_\_ Gals.

20 Gals.

##### Total

\_\_\_\_\_

120

Heavy usage buffer

Use if family members take longer than average showers, etc...

x1.5

x1.5

First hour ratings

\_\_\_\_\_ Gals.

180 Gals.

With Ultra 105 Recommended Ultra Plus 40

#### Calculation #2

If immediate fill is required for whirlpool tub, the usable capacity of the water heater must exceed the tub capacity.

##### Example:

75 Gallon tub (x) .6 = 45 Gallon minimum capacity. Using Tank Gallon Capacity chart below.

If capacity is not known - measure inside of tub to find gallon capacity:

\_\_\_\_\_ L x \_\_\_\_\_ W x \_\_\_\_\_ H = \_\_\_\_\_ in<sup>3</sup>  
\*(carry total to line below)

\_\_\_\_\_ in<sup>3</sup> x .004329 = \_\_\_\_\_ Gals. x .6 = \_\_\_\_\_ Minimum Gals.  
\*(total carried from line above)

The minimum gallon calculation from calculation #2 should be matched to the Tank Gallon Capacity listed here:

##### Tank Gallon Capacity

Model:	30	40	60	80	100	110	119
Gallons	28	36	46	56	70	95	119

If calculation #1 sizes a larger capacity tank - use it.

##### For commercial applications

If you have special applications such as Multiple Boiler Systems, large domestic water loads, etc., refer to the ASHRAE Fixture Count Method or call your local Weil-McLain representative for assistance.

### Ultra Gas Specific Sizing Chart

Model	Gold /Ultra Plus 40		Gold /Ultra Plus 60		Gold /Ultra Plus 80	
Boiler Water Supply	190		190		190	
Domestic Outlet	115	140	115	140	115	140
Ultra-80	160	124	168	132	176	140
Ultra-105	203	141	211	162	219	170
Ultra-155	238	153	294	190	302	230
Ultra-230	248	160	330	196	411	305
Ultra-310	254	164	351	208	579	373

### Ultra Oil Specific Sizing Chart

Model	Gold /Ultra Plus 40		Gold /Ultra Plus 60		Gold /Ultra Plus 80	
Boiler Water Supply	190		190		190	
Domestic Outlet	115	140	115	140	115	140
UO-3 (0.8 GPH)	235	170	240	185	250	195
UO-3 (1.0 GPH)	260	170	315	220	325	245
UO-4 (1.2 GPH)	260	170	355	220	360	275
UO-5 (1.4 GPH)	260	170	365	220	400	300



## Weil-McLain Indirect-Fired Water Heater: First Hour Ratings

### Universal Sizing Chart By Boiler Input

Model	Gold Plus 30		Gold /Ultra Plus 40		Gold /Ultra Plus 60		Gold /Ultra Plus 80		Gold PLUS100		Gold PLUS110		Gold PLUS119		
Boiler Water Supply	200		200		200		200		200		200		200		
Domestic Outlet	115	140	115	140	115	140	115	140	115	140	115	140	115	140	
Boiler Heating Capacity (MBH)	50	115	90	125	95	130	105	140	115	150	125	170	145	190	165
	70	155	120	160	125	170	130	175	140	185	150	205	170	225	190
	90	190	140	195	150	205	160	215	165	225	180	245	200	265	215
	110	230	140	235	170	240	185	250	195	260	205	280	225	300	245
	130	230	140	260	170	280	210	285	220	300	230	320	250	335	270
	150	230	140	260	170	315	220	325	245	335	260	355	280	375	295
	170	230	140	260	170	355	220	360	275	370	285	390	305	410	325
	190	230	140	260	170	365	220	400	300	410	310	430	330	450	350
	210	230	140	260	170	365	220	435	325	445	340	465	360	485	375
	250	230	140	260	170	365	220	510	380	520	390	540	410	560	430
	300	230	140	260	170	365	220	600	410	610	435	630	480	650	495
	350	230	140	260	170	365	220	670	410	690	435	725	525	745	565
	400	230	140	260	170	365	220	670	410	690	435	775	525	835	630
	450	230	140	260	170	365	220	670	410	690	435	775	525	930	630
	500	230	140	260	170	365	220	670	410	690	435	775	525	970	630
Circulator - GPM	8	8	9	9	13	13	20	20	24	18	26	25	28	28	

# Advantages of Weil-McLain Indirect-Fired Water Heaters:

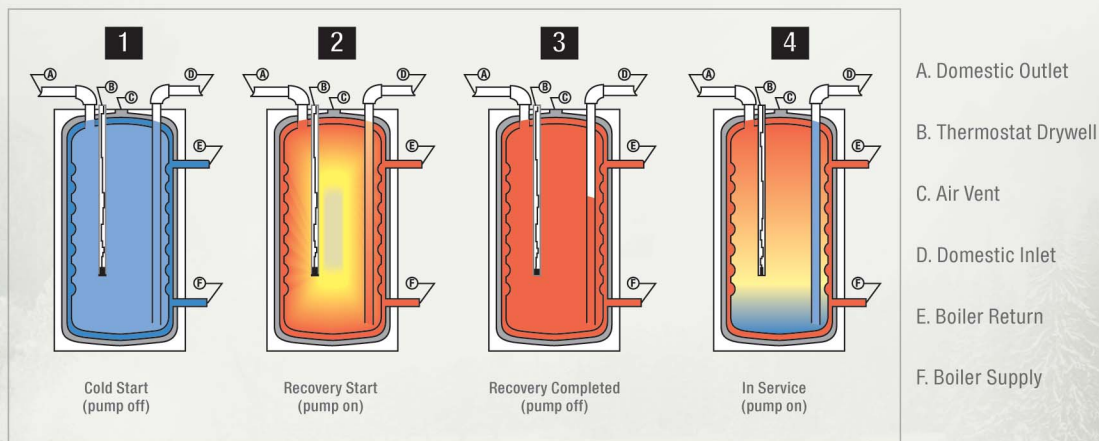
- More efficient – less standby heat loss
- Less maintenance – no additional burners to maintain
- Less cost – no additional venting required or fuel lines to run
- Better performance – quicker recoveries and more available hot water
- Lifetime Warranty (15 years on Commercial)
- No Coils – large self-cleaning waterways prevent liming and efficiency deterioration
- Durable – stainless steel inner tank withstands endless heating and cooling contractions
- Low pressure drop – maximum performance from standard pump
- Perfect match for any Weil-McLain boiler
- Easy to size... Easy to install



## Ratings and Dimensions:

Model	First Hour Flow Ratings		Capacities					Approx. Ship Weight Pounds
	115F	140F	Circulator GPM	Domestic Side Gallons	Boiler Side Gallons	Heating Surface Sq. Feet	Head Loss on Boiler Side Feet	
	Gallons	Gallons						
GOLD Plus 30	230	140	8	28	5	13	3/4	135
GOLD Plus 40/Ultra Plus 40	260/259	170/168	9	36	6	16	1	155
GOLD Plus 60/Ultra Plus 60	365/349	220/207	13	46	8	20	1-1/4	180
GOLD Plus 80/Ultra Plus 80	670/579	410/362	20	56	8	24	1-1/2	200
PLUS 100	690	435	18	70	14	29	2	271
PLUS 110	775	525	25	95	25	34	2	362
PLUS 119	970	630	28	119	30	42	2-1/2	479

## Tank-in-tank design



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