

# EFFICIENCY AT WORK

A - 2000™ SERIES



*Hot Water  
Packaged Systems*

**WEBEN JARCO**

## PUTTING EFFICIENT HOT WATER TECHNOLOGY TO WORK IN A READY-TO-INSTALL PACKAGE



Weben-Jarco introduced the industry's original packaged hot water systems over 40 years ago. Today we continue to provide dependable, cost-effective solutions for hot water production.

***Engineered for maximum heat transfer and thermal efficiency, our hot water heaters and tanks are shipped completely factory-assembled.***

Efficiency and convenience are combined in Weben-Jarco's A-2000™ Series hot water packaged systems. Proven in over 42,000 installations, these systems provide cost-effective hot water production in a variety of heater and tank configurations — shipped completely factory-assembled. Heater, storage tank, piping, pump, electrical system, and controls are mounted on a single steel platform.

The systems may be ordered with one or more heaters to the right or left of the storage tank, with or without platform, or with platform under heater(s) only. They are also available with any size storage tank — up to 3,000 gallons. Knocked down systems are available on request. All systems meet ASHRAE 90.1B addn. standards.

### **Efficiency is Designed-In**

The A-2000™ Series provides cost-effective solutions and operational savings in commercial buildings, hotels, laundries, and industrial processing facilities with the following designed-in features.

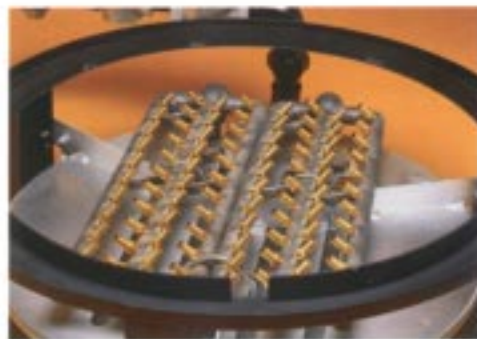
#### ***“Turbulated” Gas Jet Burner***

The economizing burner in Weben-Jarco gas-fired water heaters utilizes counter-opposed “turbulated” bronze jets, combined to form one “turbulated” combustion-efficient flame. This creates a high demand for cold secondary air. Constant cold air movement over the burner manifold castings stabilizes the fuel-to-air ratio and provides a clean, soot-free burner flame along with a high ratio of BTU input in a minimum space requirement.

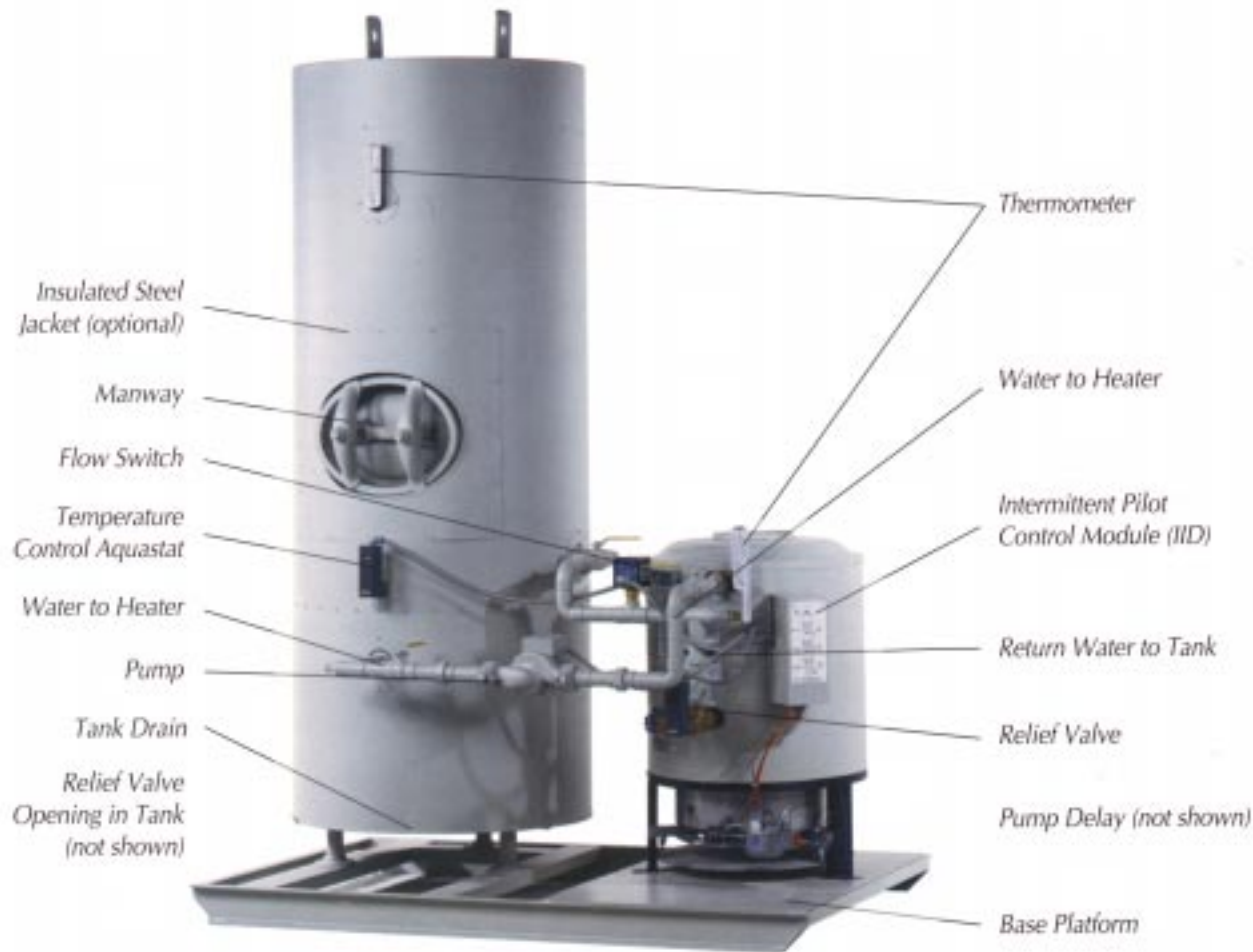
#### ***“Hourglass” Copper Heat Exchanger***

Weben-Jarco's single continuous copper coil heat exchanger, which uses finned copper tubing, features a unique “hourglass” configuration to provide maximum heat transfer and thermal efficiency.

In fact, the “hourglass” configuration wrings out up to 83% of the heat value from the combustion gas to the water. Its double funnel forces the hot products of combustion to pass *twice* through the finned tube area of the wound coil, further improving overall heat transfer efficiency.



Energy conserving features include a “turbulated” gas jet burner (top) and “hourglass” copper heat exchanger (left).



### Long-Lasting, Rugged Design

The A-2000™ Series is engineered to equal or outlast any other systems on the market. They are manufactured, assembled and tested by skilled craftsmen following national plumbing and electrical codes. Upon completion, the systems are pressure tested under rigid quality control.

To provide further longevity, the continuous coil heat exchanger allows deliming without disassembly of the jacket. In addition, the large coil diameter minimizes scale buildup.

### Safety Features

Safety features include pilot flame failure recognition, mechanical and electrical shut-down in the event of a pilot outage, and a pilot control module.

### 5-Year Warranty on Storage Tanks

Weben-Jarco packaged systems are furnished with a Poly-Klad™ lined storage tank. A written five-year limited warranty is included.

All Poly-Klad™ lined storage tanks meet FDA specifications and are constructed under ASME code. They are stamped for working pressures of 125 and 150 PSI, or higher on request.

### 10-Year Warranty on Storage Tanks

For heavy duty applications, customers can request Webenite™ Stone-lined storage tanks carrying a 10-year limited warranty. Designed to extend tank life in harsh water conditions, Webenite™ linings resist metals, high temperatures, and organic attack.



Storage tanks can be specified with a five or ten-year warranty.

## SINGLE HEATER PACKAGED SYSTEMS

SPECIFICATIONS						
Model Number	Catalog Number Standard Single System	REC. GPH 100° Rise	BTU Input MBH	Storage Tank 125 PSI W.P.		W/Poly-Klad™ Approx. Shipping Weight (lbs.)
				Size	Gal.	
JS18-186	SB018N186PP	177	185	30" X 66"	186	1241
JS35-186	SB035N186PP	337	350	30" X 66"	186	1318
JS35-277	SB035N277PP	337	350	36" X 70"	277	1434
JS35-330	SB035N330PP	337	350	36" X 82"	330	1513
JS50-277	SB050N277PP	481	500	36" X 70"	277	1595
JS50-330	SB050N330PP	481	500	36" X 82"	330	1674
JS50-390	SB050N390PP	481	500	42" X 72"	390	1898
JS70-277	SB070N277PP	673	700	36" X 70"	277	1709
JS70-330	SB070N330PP	673	700	36" X 82"	330	1788
JS70-390	SB070N390PP	673	700	42" X 72"	390	2040
JS70-462	SB070N462PP	673	700	42" X 84"	462	2171
JS97-330	SB097N330PP	931	970	36" X 82"	330	1918
JS97-390	SB097N390PP	931	970	42" X 72"	390	2169
JS97-462	SB097N462PP	931	970	42" X 84"	462	2300
JS97-605	SB097N605PP	931	970	48" X 87"	605	2739
JS120-462	SB120N462PP	1152	1200	42" X 84"	462	2318
JS120-605	SB120N605PP	1152	1200	48" X 87"	605	2757
JS140-462	SB140N462PP	1310	1400	42" X 84"	462	2329
JS140-605	SB140N605PP	1310	1400	48" X 87"	605	2769

Packaged systems are available with other tank sizes (up to 3,000 gallons) and linings (cement and epoxy). Refer to Tank Catalog (Form 03-1A) for additional sizes. Any tank indicated in the catalog (up to 3,000 gallons) can be matched with any heater (7BTU input) or combination of heaters. Standard arrangement is with heater on right.

PHYSICAL DIMENSIONS				
Platform Includes Tank on Base		Height	Vent Pipe Size	Heater Gas Inlet Size
Width	Depth	Tank with Legs		
68"	48"	79 1/2"	7"	3/4"
70"	48"	79 1/2"	9"	3/4"
76"	48"	82"	9"	3/4"
76"	48"	94"	9"	3/4"
80"	54"	82"	10"	1"
80"	54"	94"	10"	1"
86"	54"	85 1/2"	10"	1"
84"	48"	82"	12"	1 1/2"
84"	48"	94"	12"	1 1/2"
90"	54"	85 1/2"	12"	1 1/2"
90"	54"	97 1/2"	12"	1 1/2"
87"	48"	94"	14"	1 1/2"
93"	54"	85 1/2"	14"	1 1/2"
93"	54"	97 1/2"	14"	1 1/2"
94"	60"	99"	14"	1 1/2"
93"	54"	97 1/2"	16"	1 1/2"
94"	60"	99"	16"	1 1/2"
93"	54"	97 1/2"	18"	1 1/2"
94"	60"	99"	18"	1 1/2"

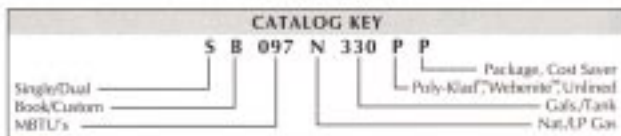
## DUAL HEATER PACKAGED SYSTEMS

SPECIFICATIONS						
Model Number	Catalog Number Standard Dual System	REC. GPH 100° Rise	BTU Input MBH	Storage Tank 125 PSI W.P.		Approx. Shipping Weight (lbs.)
				Size	Gal.	
JD36-277	DB036N277PP	354	370	36" X 70"	277	1674
JD36-330	DB036N330PP	354	370	36" X 82"	330	1763
JD36-390	DB036N390PP	354	370	42" X 72"	390	1957
JD70-277	DB070N277PP	674	700	36" X 70"	277	1852
JD70-330	DB070N330PP	674	700	36" X 82"	330	1941
JD70-390	DB070N390PP	674	700	42" X 72"	390	2135
JD70-462	DB070N462PP	674	700	42" X 84"	462	2285
JD85-330	DB085N330PP	818	850	36" X 82"	330	2066
JD85-390	DB085N390PP	818	850	42" X 72"	390	2260
JD85-462	DB085N462PP	818	850	42" X 84"	462	2410
JD85-605	DB085N605PP	818	850	48" X 87"	605	2700
JD100-330	DB100N330PP	962	1000	36" X 82"	330	2215
JD100-390	DB100N390PP	962	1000	42" X 72"	390	2409
JD100-462	DB100N462PP	962	1000	42" X 84"	462	2559
JD100-605	DB100N605PP	962	1000	48" X 87"	605	2849
JD120-390	DB120N390PP	1154	1200	42" X 72"	390	2548
JD120-462	DB120N462PP	1154	1200	42" X 84"	462	2698
JD120-605	DB120N605PP	1154	1200	48" X 87"	605	2988
JD140-390	DB140N390PP	1346	1400	42" X 72"	390	2704
JD140-462	DB140N462PP	1346	1400	42" X 84"	462	2854
JD140-605	DB140N605PP	1346	1400	48" X 87"	605	3144
JD167-462	DB167N462PP	1605	1670	42" X 84"	462	2991
JD167-605	DB167N605PP	1605	1670	48" X 87"	605	3281
JD194-462	DB194N462PP	1862	1940	42" X 84"	462	3141
JD194-605	DB194N605PP	1862	1940	48" X 87"	605	3431
* JD217-462	DB217N462PP	2088	2170	42" X 84"	462	3159
* JD217-605	DB217N605PP	2088	2170	48" X 87"	605	3470
* JD240-462	DB240N462PP	2304	2400	42" X 84"	462	3198
* JD240-605	DB240N605PP	2304	2400	48" X 87"	605	3488
** JD260-462	DB260N462PP	2462	2600	42" X 84"	462	3210
** JD260-605	DB260N605PP	2462	2600	48" X 87"	605	3500
** JD280-462	DB280N462PP	2620	2800	42" X 84"	462	3222
** JD280-605	DB280N605PP	2620	2800	48" X 87"	605	3512

\* Requires Motor Starter. \*\* Requires Motor Starter available only in 230 volts.

PHYSICAL DIMENSIONS				
***Equip. Space		Height	Vent Pipe Size	Heater Gas Inlet Size
Width	Depth	Tank w/ Legs		
94"	40"	78"	7 1/2"	3/4"
94"	40"	90"	7 1/2"	3/4"
108"	42"	81 1/2"	7 1/2"	3/4"
102"	44"	78"	9 5/8"	1 1/2"
102"	44"	90"	9 5/8"	1 1/2"
108"	44"	81 1/2"	9 5/8"	1 1/2"
108"	44"	93 1/2"	9 5/8"	1 1/2"
106"	44"	90"	9 7/10"	1 1/2"
112"	44"	81 1/2"	9 7/10"	1 1/2"
112"	44"	93 1/2"	9 7/10"	1 1/2"
118"	48"	95"	9 7/10"	1 1/2"
110"	48"	90"	10 1/10"	1 1/2"
116"	48"	81 1/2"	10 1/10"	1 1/2"
116"	48"	93 1/2"	10 1/10"	1 1/2"
122"	48"	95"	10 1/10"	1 1/2"
120"	48"	81 1/2"	10 1/2"	1 1/2"
120"	48"	93 1/2"	10 1/2"	1 1/2"
126"	48"	95"	10 1/2"	1 1/2"
124"	52"	81 1/2"	12 1/2"	1 1/2"
124"	52"	93 1/2"	12 1/2"	1 1/2"
130"	52"	95"	12 1/2"	1 1/2"
127"	52"	93 1/2"	12 1/4"	1 1/2"
133"	52"	95"	12 1/4"	1 1/2"
130"	55"	93 1/2"	14 1/4"	1 1/2"
136"	55"	95"	14 1/4"	1 1/2"
130"	55"	93 1/2"	16 1/4"	1 1/2"
136"	55"	95"	16 1/4"	1 1/2"
130"	55"	93 1/2"	18 1/4"	1 1/2"
136"	55"	95"	18 1/4"	1 1/2"
130"	55"	93 1/2"	18 1/8"	1 1/2"
136"	55"	95"	18 1/8"	1 1/2"

\*\*\* Tank Shipped Separately.



\*\*\* Standard arrangement is with heaters on the right. Dual system base under heaters only. For base mount option on tanks, contact factory.

Note: Dual system tanks not on skid.

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