

Commercial Gas Boilers

Ac-U-Темр

HOT WATER SUPPLY SYSTEM USING GENESIS® BOILERS

With Ac-U-Temp, A. O. Smith makes it easy as possible to install a complete packaged hot water supply system, combining 84% efficient Genesis® boilers with storage tanks up to 1,000 gallons. Each Ac-U-Temp system is custom-made to your specifications for each application and shipped fully assembled, pre-piped and pre-wired. All the installer has to do is make the flue, gas, electrical and water connections, so installations are easy.

Consult your A. O. Smith representative for more information on the wide range of available boiler/storage tank combinations using the Ac-U-Temp system.

GENESIS® BOILERS-UP TO 84% THERMAL EFFICIENCY

- The highest possible efficiency for a non-condensing boiler
- Available inputs range from 300,000 to 2,500,000 BTU
- Flexible conventional-vent or sealed-combustion direct-vent options
- For complete information on Genesis® Hot Water Supply Boilers, consult Specification Sheet

GLASSLINED STORAGE TANKS

- Standard capacities up to 1,000 gallons
- Custom tanks available up to 10,000 gallons
- Standard tanks are factory jacketed and insulated bare uninsulated tanks also available
- Optional cement or epoxy-lined tanks available
- For complete information on standard tanks, consult tank spec sheet or see your local rep

MULTIPLE BOILER SYSTEMS

- Ac-U-Temp systems can be designed with multiple boilers to provide 50%–100% back-up
- Boilers can be on & off fired, or sequenced to meet changing system demands
- Sequenced multi-boiler systems with small storage tanks are ideal for applications with relatively constant hot water demands
- Optional sequenced control panel available

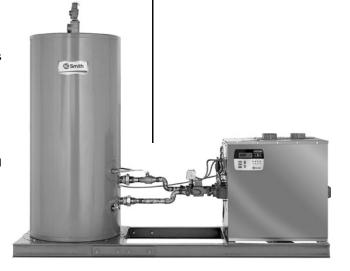
MULTIPLE TANK SYSTEMS

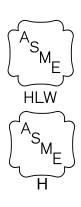
 Ac-U-Temp systems can be designed with multiple tanks for applications with low ceiling heights or other unique installation challenges

DUAL ENERGY SOURCE OPTION

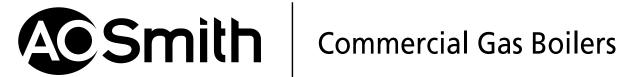
- Storage tanks can be specified with heat exchangers to allow winter/summer heating boiler operation
- Water-to-water or steam-to-water heat exchangers available in both single-wall or doublewall design.
- Complete control packages can be factory-installed for "hook up and run" simplicity







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ELECTRIC BACK-UP OPTION

- Storage tanks can be specified with heavy-duty electric heating elements and controls for up to 3,000 Kilowatt (kW) input
- 100% electric back-up ensures hot water supply even during gas outages

OTHER FEATURES:

ASME TEMPERATURE AND PRESSURE RELIEF VALVE #125 TANK TEMPERATURE SENSOR AND THERMOMETER **ISOLATION VALVES (BALL VALVES)** 125 PSI TANK WORKING PRESSURE CAST-IRON BRONZE-FITTED CIRCULATING PUMP LARGE SYSTEMS SHIPPED WITH SPLIT/BOLT TOGETHER SKIDS FOR EASE OF SHIPPING AND INSTALLATION

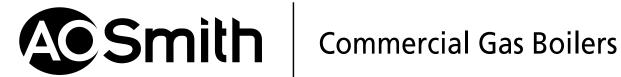
OTHER OPTIONS:

ALL-BRONZE CIRCULATING PUMP 150 AND 160 PSI TANK WORKING PRESSURES 11"x 15" MANHOLES

HORIZONTAL STORAGE VESSEL DATA

MODEL NUMBER	INCHES OR CM	DIMENSIONS							
		LENGTH (A1)	OUTLET DIM (A2)	WIDTH (B1)	HEIGHT (B2)	INLET HEIGHT (B3)	INLET SIZE	OUTLET SIZE	
AJH-200	Inches	77	18	36	16	21	2-1/2	2-1/2	
	cm	195.6	45.7	91.4	40.6	53.3	6.4	6.0	
AJH-350	Inches	93	19-1/2	42	15-1/2	247	2-1/2	2-1/2	
	cm	236.2	49.5	106.7	39.4	627.4	6.4	6.4	
AJH-400	Inches	99	19-1/2	42	15-1/2	24	2-1/2	2-1/2	
	cm	251.5	49.5	106.7	39.4	61	6.4	6.4	
AJHT-500	Inches	94	21	48	16	27	3	3	
	cm	238.8	53.3	121.9	40.6	68.6	7.6	7.6	
AJH-500	Inches	79	56-1/2	54	59	30	3	3	
	cm	200.7	143.5	137.2	149.9	76.2	7.6	7.6	
AJH-750	Inches	111	22-1/2	54	16-1/2	30	3	3	
	cm	281.9	57.2	137.2	41.9	76.2	7.6	7.6	
AJH-1000	Inches	143	22-1/2	54	163-1/2	30	3	3	
	cm	363.2	57.2	137.2	415.3	76.2	7.6	7.6	

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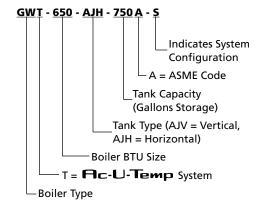


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BOILER DATA

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MODEL	INCHES OR	DIMENSIONS					
NUMBER	CM	LENGTH	WIDTH	HEIGHT			
NONBLK	CIVI	(C2)	(C1)	(D)			
GW-300	Inches	29-1/2	24	32			
GVV-300	cm	74.9	61	81.3			
GW-400	Inches	35-3/4	24	32			
	cm	90.8	61	81.3			
GW-500	Inches	42	24	32			
GVV-500	cm	106.7	61	81.3			
CM CEO	Inches	51-3/8	24	32			
GW-650	cm	130.5	61	81.3			
GW-750	Inches	57-5/8	24	32			
GW-750	cm	146.4	61	81.3			
GW-1000	Inches	47	31-3/4	42-1/2			
GVV-1000	cm	119.4	80.6	108			
GW-1300	Inches	57-1/2	31-3/4	42-1/2			
GW-1300	cm	146.1	80.6	108			
GW-1500	Inches	64-1/2	31-3/4	42-1/2			
GVV-1500	cm	163.8	80.6	108			
C)M 10F0	Inches	78-3/4	31-3/4	45-1/4			
GW-1850	cm	200	80.6	114.9			
GW-2100	Inches	85-1/2	31-3/4	45-1/4			
GVV-2100	cm	217.2	80.6	114.9			
GW-2500	Inches	85-1/2	31-3/4	45-1/4			
GVV-2500	cm	217.2	80.6	114.9			

Model to Specify:



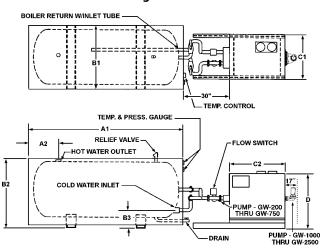
VERTICAL STORAGE VESSEL DATA

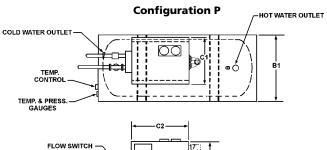
	INCHES OR CM	DIMENSIONS					
MODEL NUMBER		HEIGHT (A)	WIDTH (B1)	INLET HEIGHT (B2)	INLET SIZE	OUTLET SIZE	
AJV-120	Inches	67-1/4	28	15	2	2	
	cm	170.8	71.1	38.1	5.1	5.1	
AJV-140	Inches	88	30	19	2-1/2	2-1/2	
	cm	223.5	76.2	49.5	6.4	6.4	
AJV-200	Inches	84	36	21	2-1/2	2-1/2	
	cm	213.4	91.4	53.3	6.4	6.4	
AJV-250	Inches	97	36	21	2-1/2	2-1/2	
AJV-230	cm	246.4	91.4	53.3	6.4	6.4	
AJV-350	Inches	99	42	25-1/2	2-1/2	2-1/2	
AJV-330	cm	251.5	106.7	57.2	6.4	6.4	
AJV-400	Inches	106	42	22-1/2	2-1/2	2-1/2	
A3 V-400	cm	269.2	106.7	57.2	6.4	6.4	
AJVT-500	Inches	101	48	24	3	3	
	cm	256.5	121.9	61	7.6	7.6	
AJV-500	Inches	86	54	25-1/2	3	3	
	cm	218.4	137.2	64.8	7.6	7.6	
AJV-750	Inches	118	54	25-1/2	3	3	
	cm	299.7	137.2	64.8	7.6	7.6	
AJV-1000	Inches	118	54	25-1/2	3	3	
AJ V-1000	cm	299.7	137.2	64.8	7.6	7.6	

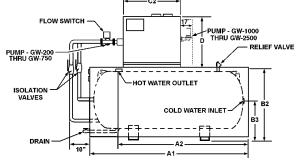


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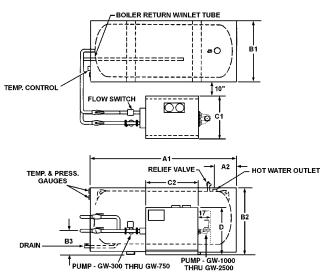
Configuration H



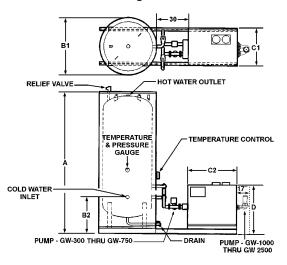




Configuration S



Configuration V



SUGGESTED SPECIFICATION

Hot Water Supply System - shall consist of A. O. Smith Ac-U-Temp® factory assembled unit Model No._____. System shall be completely factory assembled and shall include the A. O. Smith Genesis hot water supply boiler(s), with input of ______ BTU/H for _____ gas and recovery capacity of ______ gph, and the A. O. Smith glasslined (cement/epoxy) hot water storage tank with _____ gallons capacity for _____ mounting (vertical-horizontal). System shall include properly sized circulator, inlet and outlet thermometers, tank temperature thermometer, relief valve, and tank temperature control. Entire system shall be rigidly mounted on welded steel skid base and shipped assembled to job site (Ac-U-Temp systems employing tanks too large for shipping as an assembled unit, will be shipped with the tank mounted on a split bolt-together skid).

See Genesis Boiler Specifications and Storage Tank Specifications in your A & E book. Hot water supply boiler(s) and storage tank(s) shall have a 5 year limited warranty against corrosion as outlined in the written warranty.

NOTE: Custom arrangement also available. Consult factory.

For Technical Information and Automated Fax Service, call 800-527-1953. A.O. Smith Corporation reserves the right to make product changes or improvements without prior notice.

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