

Ac-U-Temp

TOTAL HOT WATER SUPPLY SYSTEM USING **VF™ BOILERS**

With Ac-U-Temp, A. O. Smith makes it as easy as possible to install a complete packaged hot water supply system, combining high-efficiency VF™ boilers with storage tanks up to 10,000 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.

VF MODULATING BOILERS UP TO 88% THERMAL EFFICIENCY

- A. O. Smith's most efficient hot water supply boilers
- AVAILABLE INPUTS: 500,000, 750,000, 1,000,000 BTUS
- Flexible conventional-vent or sealed-combustion direct-vent options
- For complete information on VF Hot Water Supply Boilers, consult VF 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
- Optional cement or epoxy-lined tanks available
- For complete information on standard and optional tanks, consult tank Specification Sheet

MULTIPLE BOILER SYSTEMS

- Ac-U-Temp systems can be designed with multiple boilers to provide 50% to 100% back-up
- Multi-boiler systems can be 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
- iCOMM™ Compatible and can be monitored from remote locations - Call 1.888.WATER02 for more information

MULTIPLE TANK SYSTEMS

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









BOILER DATA

MODEL NUMBER	INCHES OR CM	DIMENSIONS					
		LENGTH (C2)	WIDTH (C1)	HEIGHT (D)	INLET SIZE	GAS INLET	
VW-500	Inches	30	30	60	2	1	
	СМ	76.2	76.2	152.4	5.1	2.5	
VW-750	Inches	30	30	66	2	1	
	СМ	76.2	76.2	167.6	5.1	2.5	
VW-1000	Inches	30	30	75	2	1	
	СМ	76.2	76.2	190.5	5.1	2.5	

VERTICAL STORAGE VESSEL DATA

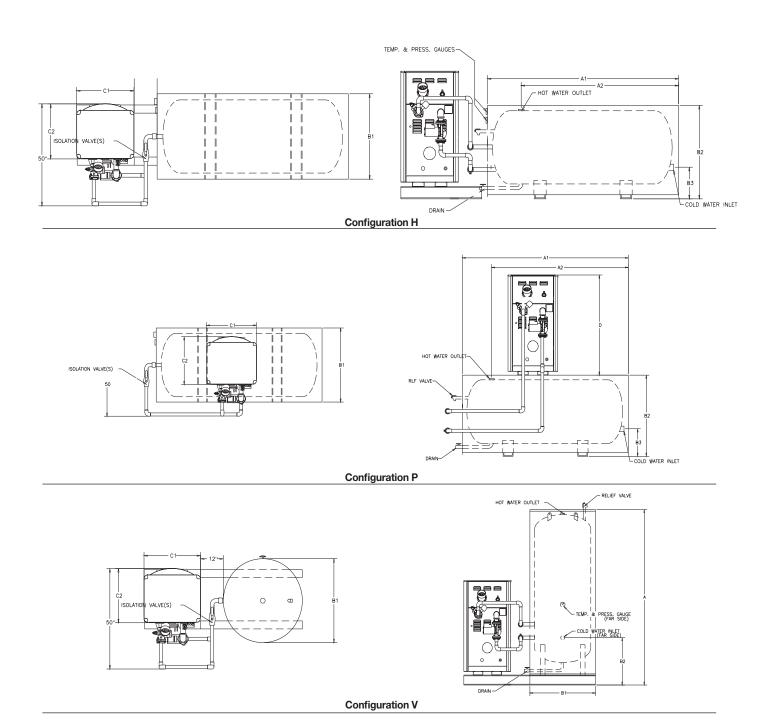
MODEL	INCHES	DIMENSIONS						
NUMBER	OR CM	HEIGHT (A)	WIDTH (B1)	INLET HEIGHT (B2)	INLET SIZE	OUTLET SIZE		
AJ-80A	Inches	66.25	28	15	2	2		
	СМ	168.3	71.1	38.1	5.1	5.1		
AJV-120A	Inches	66	28	15	2	2		
	СМ	167.6	76.2	167.6	5.1	2.5		
AJV-140A	Inches	88	30	23.5	2.5	2.5		
	СМ	223.5	76.2	59.9	6.4	6.4		
AJV-200A	Inches	84	36	25	2.5	2.5		
AJV-200A	СМ	213.4	91.4	63.5	6.4	6.4		
AJV-250A	Inches	97	36	25	2.5	2.5		
	СМ	246.4	91.4	63.5	6.4	6.4		
AJV-350A	Inches	99	42	26.5	2.5	2.5		
	СМ	251.5	106.7	67.3	6.4	6.4		
AJV-400A	Inches	106	42	26.5	2.5	2.5		
	СМ	269.2	106.7	67.3	6.4	6.4		
AJV-500TA	Inches	101	48	28	3	3		
	СМ	256.5	121.9	71.1	6.4	6.4		
AJV-500A	Inches	86	54	29.5	3	3		
	СМ	218.4	137.2	74.9	6.4	6.4		
AJV-750A	Inches	118	54	29.5	3	3		
	СМ	299.7	137.2	74.9	6.4	6.4		
AJV-1000A	Inches	150	54	29.5	3	3		
A04-1000A	СМ	381	137.2	74.9	6.4	6.4		

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	59	36	41	15	2.5	2.5	
	СМ	195.6	149.9	91.4	104.1	38.1	6.4	6.4	
AJH-350	Inches	93	72.5	42	47	14	2.5	2.5	
	СМ	236.2	184.2	106.7	119.4	35.6	6.4	6.4	
AJH-400	Inches	99	79.5	42	47	14	3	3	
	СМ	251.5	201.9	106.7	119.4	35.6	7.6	7.6	
AJH-500T	Inches	94	73	48	53	16	3	3	
	CM	238.8	185.4	121.9	134.6	40.6	7.6	7.6	
AJH-500	Inches	79	56.5	54	59	16	3	3	
	СМ	200.7	143.5	137.2	149.9	40.6	7.6	7.6	
AJH-750	Inches	111	88.5	54	59	16	3	3	
	СМ	281.9	224.8	137.2	149.9	40.6	7.6	7.6	
AJH-1000	Inches	143	120.5	54	59	16	3	3	
	СМ	363.2	306.1	137.2	149.9	40.6	7.6	7.6	

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.





The above are standard available configurations. Custom configurations designed to your specifications are available. Contact your local A. O. Smith Sales Representative for assistance.

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DUAL-ENERGY SOURCE OPTION

- Storage tanks can be specified with an optional heat exchanger for winter heating using on-site hydronic heating boiler(s), switching to domestic hot water boiler(s) for summertime operation
- Water-to-water or steam-to-water heat exchangers available in single-wall or double-wall design
- Complete control packages can be factory-installed for "hook up and run" simplicity

FACTORY START-UP INCLUDED

 Required for activating warranty and assuring maximum operation performance. Contact your local representative or Authorized Start-Up Agent and arrange for a FREE certified setup.

CODE COMPLIANCE

 Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/ **IESNA 90.1**

5 YEAR LIMITED WARRANTY ON HEAT EXCHANGER AND STORAGE TANK

For complete information, consult written warranty

OTHER FEATURES:

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

OTHER OPTIONS:

- 150 AND 160 PSI TANK WORKING PRESSURES
- 11" X 15" MANHOLES

Model to Specify: VW T -750 - AJV - 500 A - V **Indicates System Configuration** A = ASME Code Tank Capacity (Gallons Storage) Tank Type (A=Skid Mounted, J=Jacketed, V=Vertical, H= Horizontal) **Boiler BTU Size** T = FIC-U-Temp System **Boiler Type**

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 VF hot water supply boiler(s), with input of BTUH for (natural/propane) gas and recovery capacity of gph, and the A.O. SMITH glass-lined (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 (best 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 VF Boiler Specification Sheet for boiler details. See A.O.Smith Storage Specification sheets for storage tank details. Hot water supply boiler(s) and storage tank(s) shall have a 5 year limited warranty against corrosion as outlined in the written warranty.

Water heater should incorporate the iCOMM™ system for remote monitoring leak detection and fault alert

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