

Water Heater Models HWD 299 / 399 / 599

100% Factory Fire Tested Efficiency: Up to 99.8% (based on incoming water) Maximum Outlet Temperature: 200°F Thermal Shock Proof Heat Exchanger 10 Year Limited Heat Exchanger Warranty 18 Month Parts Warranty Modulating Stainless Steel Burner 5:1 Turndown Ratio Self Diagnostic microprocessor controls Blocked flue/blocked condensate pressure switch Common venting on multiple units

Engineer:

Contractor: _____ Prepared By: _____

Heat Exchanger

- ASME H Stamped
- ASME Inspected and Stamped for 160 PSIG Max Working Pressure
- National Board Registered
- 316L Stainless Construction
- Rolled & Formed in a Helical Pattern
- Headers Welded 316L Stainless

ASME Pressure Relief Valve

- □ 125 PSI standard
- PSI Special applications, not to exceed 150 PSI

CSA Design Certified – ETL Listed

- Gas Water Heaters Volume III ANSI Z21.10.3 / CSA 4.1-2004
- □ Hot Water Supply Boiler ANSI Z21.13 / Z21.13A / CSA 4.9-2004

Controls

- 208-240V, 1 Power Supply 50/60 Cycle
- Direct Spark Ignition w/ Integrated
 Flame Sensor
- Modulating Digital Control System
- High Limit Control, Manual Reset

 198° F Standard
 155° F Optional
 - Front Mounted On/Off Power Switch
- Flow Switch
- Blocked Vent/Condensate Pressure Switch
- Exact Elevation Match To 9,000 Feet with No De-Rate

Gas Train

Date:

Model: Input: Unit Tag:

- Manual Gas Shut-Off Valve
- Negative Pressure Gas Valve(s)
- Fuel Field Adjustable w/ No Parts
 Natural Gas
 Propane Gas

Burner

- 316L Stainless Steel Premix
- Ultra-Low NO_x: Less than 13 PPM, adjusted for 3% O₂

Construction

- Indoor Construction
- Front Controls
- Stainless Steel Front Cover
- Top Exhaust & Inlet Air Connections
- Bottom Water, Electrical, Gas and Drain Connections Air Vent

Air vent

Venting System Information

- Vent Termination
 - □ PVC

 - □ Stainless Steel
- Direction of Termination ☐ Vertical Estimated Vertical Height: ____ft
 - Horizontal

Certified Seismic Rated Mounting Rack

- □ Free Standing
- Wall Standing

Optional Controls

- $\hfill\square$ Cascade Boards (required on
- common vented systems)
- Low Water Cut Off
- Open Therm Communication

- Gateway Communication-BMS
 LON
 - □ BACnet
 - □ Modbus
- CSD-1 (599 only)

Options

- □ Certified System UL 795 Model Number_____ (includes all items listed below plus Certified Seismic Rated Mounting Rack)
- □ All Bronze Heater Pump
 - Package______, 220V, 1¢, 60Hz Note: pumps are sized and supplied by factory as standard, providing 15% additional head for system connection piping.
- Common Venting Manifold (only with all appliances providing same load)
 Diameter: ""
- Condensate Neutralizer / Drain (highly recommended for all systems)
- □ Electrical Panel w/ Service Disconnects
- Common Gas Manifold
- □ Pre-Plumbed Piping Manifold
- Expansion Tank _____ ___PSI







Job:

Hamilton EVO Models 299 / 399 / 599

Model



Heater Mounted On Rack						Heater Only									
Model	Width	Height	Depth	А	В	С	D	Model	Width	Height	Depth	Α	В	С	D
299	25"	74"	28.625"	4"	1.5"	1.5"	0.75"	299	19"	33"	19"	4"	1.5"	1.5"	0.75"
399	25"	74"	28.625"	4"	2"	2"	0.75"	399	19"	33"	19"	4"	2"	2"	0.75"
599	25"	74"	34.5"	5"	2"	2"	1"	599	19"	35"	26.5"	5"	2"	2"	1"

			GPH	GPH	GPH	Water Flow Rate	
Model	Input BTU/	Water Heater*				& Pressure Drop	Shipping Woight
							weigin
HWD 299	300,000	up to 291,000	360	450	600	16.5@22.9'	111 lbs.
HWD 399	399,999	up to 387,999	466	582	776	26.4@20.3'	194 lbs.
HWD 599	630,000	up to 611,100	734	917	1223	39.6@23.6'	234 lbs.

• Rates shown are for natural or propane gas, and elevations up to 9,000 feet

† Individual appliance piping pressure drop used in the tables is based on 20 feet of straight pipe, 6 elbows, 2 tees, 2 full port ball valves and 2 unions * At 97% thermal efficiency with 86°F incoming water to heat exchanger

• All recovery rates based on domestic water heating

• Dimensions are approximate. Please consult the factory before installation

Maximum amperage draw at 230 volts single phase is less than 6.3 amps

RECOMMENDED SERVICE CLEARANCES



The EVO is rated at zero clearance to combustibles.

WATER PIPING MANIFOLD FOR EVO PRODUCTS

Model	Minimum Manifold Pipe Size						
MOUEI	Single	Double	Triple	Quad			
HWD 299	1.5"	2"	2"	2.5"			
HWD 399	2"	2"	2.5"	3"			
HWD 599	2"	2.5"	3"	4"			

VENTING THE EVO

Please note: You MUST confirm local codes as related to venting materials, required markings, etc. Parts of Canada have very specific vent material requirements.

Model	Vent Standard Vent Diameter Type		Optional Vent Type	Minimum Combined Vent Length	Maximum Combined Length
HWD 299	4"	Plastic	Stainless	6" + (2) 90° elbows	225'
HWD 399	4"	Plastic	Stainless	6" + (2) 90° elbows	180'
HWD 599	5"	Stainless	Plastic - 6"*	6" + (2) 90° elbows	200'

* The use of 6" PVC will require the purchase of a special adapter from Hamilton Engineering, Inc.

Note: For concrete construction or to meet certain fire codes, exhaust and inlet piping at the wall penetration to the EVO must be CPVC Schedule 40 or 80 or Stainless. The balance from the penetrated wall to the outside may be PVC Schedule 40 or 80.

ELECTRICAL CHARACTERISTICS FOR EVO PRODUCTS

208 Volt Power Supply									
Model	Amps/unit	Water Heater Pump	Total amps Water Heater		Ν				
HWD 299	1.16	2.0	3.16		HV				
HWD 399	1.15	1.89	3.04		HV				
HWD 599	1.15	1.89	3.04		HV				

240 Vc	/		
Model	Amps/unit	Water Heater Pump	Total amps Water Heater
HWD 299	1.0	1.73	2.73
HWD 399	1.0	1.63	2.63
HWD 599	1.0	1.63	2.63

34000 Autry Street, Livonia, MI 48150 • 800.968.5530 • Fax 734.419.0209 • www.hamiltonengineering.com • LIT91156 REV 5/2011

ELECTRICAL REQUIREMENTS AND CONNECTIONS

The electrical requirements are for standard 208-240 volts, 50/60 hz 15 amp service. This unit is wired with #18 awg and internally fused for no more than 3.15 amps.

The standard supplied pumps are all 208-240 volt, 60 cycle and are wired to terminals on the heater.

- A. Not Connected
- B. External sensor connection system temperature sensor, senses water temp in a storage tank
- C. Not Connected
- D. 0-10 VDC connect a 0-10 VDC output here to vary set point temperature.
- E. Additional Heat Source dry contacts that will close a thermostat on an extra heater if the cascade system is at 100% of capacity.
- F. Lock Out Signal alarm bell or light may be connected here to indicate that the heater is a hard lockout.
- G. Remote Thermostat normally jumped. A room thermostat may be connected here to enable/ disable the heater.
- H. Cascade Connection communication cables get connected here and "daisy chained" to all heaters in a cascade. This is polarity sensitive.
- I. Not Connected
- J. Not Connected
- K. Not Connected
- L. P3 Wire to primary pump for heaters.
- M. Power Supply connect 208 240 VAC single phase power supply here.







ProRadiant

Three Position Actuator for Stations

Applications

Features

The Three Position Actuator for
Stations is designed to provide
floating action control of Viega Mixing
or Injection Stations and diverting
valves. The actuator is used in
electronic temperature control
systems which use hot and/or cold
lim
water as the controlled medium in
radiant heating systems,
snowmelting, or other temperature
mixing applications. The actuator is
designed for operation by anySn
snow
snow

24Vfloating signal controller such as theViega Basic Heating (stock code 16015) or Advanced Heating (stock code 16014).

Specifications

Power supply: 24 VAC, 50/60 Hz Power consumption: 0.7 VA Control mode: 3-position (floating) Stroke: 0.25 inches Running time: 150 sec at 50 Hz 120 sec at 60 Hz (70 sec for full valve travel) Stem force: 40 lbs Connecting cable: 5 ft Ambient Temp. Limits: 32 - 140°F Weight: 0.33 lbs Mounting thread: M30 x 1.0

- Small size allows installation where space is limited
- Maintenance free actuator in plastic housing
- Synchronous motor
- Magnetic coupling for torque limitation independent of voltage
- Suitable for 3-position modulating control (floating) without proportional feedback
- No tools required for mounting



Wiring Diagram



Green wire: open valve (warmer water) Brown wire: close valve (cooler water) White wire: ground

Dimensions







VIEGA 301 N. Main, Floor 9 Wichita, KS 67202 Phone: 1-877-VIEGA-NA Fax: 1-800-976-9817

> service@viega.com www.viega.com

TechData



Three-Way Diverting Valves can be used for temperature control in many heating and snowmelting applications.

Features

- Includes solder tailpieces (1-1/4" and 1-1/2" models use same valve body with different tailpieces)
- Pre-installed high limit kit
- Compatible with most Viega actuators Three Position - 18003 Proportional Acuator - 0-10v 18025 Non-electric Models - 16101, 16102, 16104, 16105, 16115

Specifications

Materials: Bronze valve body Brass and corrosion-resistant steel internal components

EPDM rubber seals

Actuator threads: M30 x 1.0

Max working temp.: 242°F (120°C)

Max working pressure: 145 psi 10 bar)

Max differential pressure (tight shut-off on both end positions of valve discs):

3/4"	10.9 psi (75 kPa)
1"	7.3 psi (50 kPa)
1-1/4"	2.9 psi (20 kPa)
1-1/2"	2.9 psi (20 kPa)

Dimensions



Stock Code	Size	L (in)	H (in)	H₁ (in)
20001	3/4"	3.15	3.94	1.85
20002	1"	3.54	4.06	1.97
20003	1-1/4"	4.53	4.65	2.52
20041	1-1/2"	4.53	4.65	2.52

Soldered Tailpiece



Size	D2 (in)	L2 (in)		
3/4"	0.875	0.91		
1"	1.125	1.18		
1-1/4"	1.375	1.57		
1-1/2"	1.625	1.26		

ProPress Tailpiece



Stock Code	Size	A (in)	L (in)	G (in)
	12			
77764	1" x 1-1/4" BSP	0.72	0.41	2.04

Pressure Drop

Pressure drop values for Viega diverting valves may be determined from the chart at right below. 1-1/4" and 1-1/2" models share the same valve body, so the pressure drop for these models is the same.

Stock Code	Size	Туре	L (in)	H (in)	H1 (in)	Weight (lbs)	Cv Rating	Flow (gpm)	Heat Capacity (BTU/H)	Pressure Drop (psi)	Pressure Drop (ft of head)
2001	3/4"	Solder	3.15	3.94	1.85	2.2	5.3	5 6	50,000 60,000	0.9 1.3	2.04 2.94
2002	1"	Solder	3.54	4.06	1.97	3	7.6	7 9	70,000 90,000	0.8 1.4	1.95 3.22
2003	1-1/4"	Solder	4.53	4.65	2.52	6.1	11.1	10 12	100,000 120,000	0.8 1.4	1.86 2.68
2004	1-1/2"	Solder	4.53	4.65	2.52	6.1	11.1	13 14	130,000 140,000	1.4 1.6	3.15 3.65

Note: Heat capacity is based on water at a ∆T of 20°F. The fluid used to calculate pressure drop across the valve is water @ 100°F

Viega... The global leader in plumbing, heating and pipe joining systems

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TYPICAL INSTALLATIONS



MATERIALS OF CONSTRUCTION

- Tank: 16-gauge cold rolled steel
- Finish: Appliance-quality paint for corrosion resistance
- Diaphragm Material: 100% butyl rubber
- Connection: Welded steel
- Testing: High pressure, seam weld, helium, final precharge check
- Air valve: Brass valve with O-ring seal
- Warranty: Five year

DIMENSIONS & CAPACITIES

	Capacity	Maximum	System	D	imensior	າຣ
Model	Gallons	Volume	Connection	Diameter	Height	Weight (lbs)
HTX 15	2.1	1.0	1/2" MNPT	8.0	12.5	5.5
HTX 30	4.5	2.5	1/2" MNPT	11.0	14.0	10.0
HTX 60	6.0	3.0	1/2" MNPT	11.4	17.2	11.5
HTX 90	15.0	6.0	3/4" MNPT	16.0	20.8	28.0
SXHT 30	15.0	6.0	1" FNPT	16.0	21.7	32.0
SXHT 40	20.0	8.0	1" FNPT	16.0	28.8	39.0
SXHT 60	33.0	13.3	1" FNPT	16.0	42.8	57.0
SXHT 90	44.0	17.7	1 1/4" FNPT	21.0	36.2	72.0
SXHT 110	62.0	24.9	1 1/4" FNPT	21.0	47.9	112.0
SXHT160	81.0	32.6	1 1/4" FNPT	21.0	62.0	123.0

Maximum working pressure 100 PSI. Factory pre-charge 12 PSI. Maximum working temperature 240° F.

QUICK SIZING CHART

		Type of Radiation				
Boiler Output	Finned Tube	Convectors	Cast Iron			
1000's BTUH	Baseboard (Copper)	& Unit Htrs	Radiators	Baseboard		
25	HTX 15	HTX 15	HTX 15	HTX 15		
50	HTX 15	HTX 30	HTX 30	HTX 30		
75	HTX 30	HTX 30	HTX 60	HTX 60		
100	HTX 30	HTX 30	HTX 60	HTX 60		
125	HTX 30	HTX 60	HTX 60	HTX 60		
150	HTX 30	HTX 60	HTX 90	HTX 90		
175	HTX 60	HTX 60	HTX 90	HTX 90		
200	HTX 60	HTX 60	HTX 90	HTX 90		
250	SXHT 30	SXHT 30	SXHT 40	SXHT 30		
300	SXHT 30	SXHT 40	SXHT 40	SXHT 30		
350	SXHT 30	SXHT 40	SXHT 60	SXHT 40		
400	SXHT 30	SXHT 60	SXHT 90	SXHT 40		
500	SXHT 40	SXHT 60	SXHT 90	SXHT 40		
600	SXHT 40	SXHT 90	SXHT 90	SXHT 60		
700	SXHT 60	SXHT 90	SXHT 90	SXHT 60		
800	SXHT 60	SXHT 110	SXHT 110	SXHT 90		
900	SXHT 60	SXHT 110	SXHT 110	SXHT 90		
1000	SXHT 90	SXHT 110	SXHT 110	SXHT 90		







SXHT SERIES









Digital, On/Off Thermostat General Instructions

Application

T200 series thermostats provide temperature control on a variety of heating, cooling and single stage heat pump applications.

The large LCD window displays room temperature including degree increments indicated by a series of dashes. The system heat output cycles on a 1 or 2F degree field selectable differential. The cool output differential is fixed at 2F degrees. The setpoint is displayed and changed by pressing one of the setpoint buttons up or down. Installation is simplified by having all of the field wires mounted to the separate wall plate.

This is a powered thermostat, which must receive 75 mA of power at all times.

Features

- LCD window display
- Jumper selectable 5 minute time delay for heating and cooling applications
- Mechanical contact for 40°F limit freeze protection (optional)



T200 Series

SPECIFICATIONS

Inputs

Power Input: 20 to 32 Vac, 75 mA to 1.2 amps.

Outputs

Electrical: Battery, Setpoint backup (Energizer 357 or equivalent). Mechanical: Operating Differential, Heating 1 or 2F degrees (0.6 or 1.1C degrees), Cooling 2F degrees (1.1C degrees). Setpoint Adjustment Range, 50 to 86° F (10 to 30°C). Material, Rigid vinyl. Finish, Off-white.

Temperature limits: Shipping & Storage, -40 to 125°F (-40 to 52°C). Operating, 40 to 125°F (5 to 53°C). Humidity: 95% non-condensing. Shipping Weight: 0.4 lbs (170 g). Location: NEMA Type 1.

Table-1 Model Chart.

Environment

Model	Control Outputs	Fan Control	System Switch	Changeover	Mechanical Contact	B & O Terminals
T201	Heating Only	None	Heat/Off	None	No	No
T201-FP ^a	Heating Only	None	Heat/Off	None	Yes	No
T204	Cooling Only	On/Auto	Cool/Off	None	No	No
T205	Cooling & Heating	On/Auto	Cool/Off/Heat	Manual	No	No
T205-FP ^a	Cooling & Heating	On/Auto	Cool/Off/Heat	Manual	Yes	No
T207	Cooling & Heating	On/Auto	Cool/Off/Heat	Manual	No	Yes
T207-FP ^a	Cooling & Heating	On/Auto	Cool/Off/Heat	Manual	Yes	Yes

a On T20X-FP (freeze protection) models a relay will provide power to a valve or relay if the thermostat fails.

TYPICAL APPLICATION (wiring diagram)



Figure-1 Terminal Identification.

Table-2 Field Selectable Jumper Option	Table-2	umper Options.
--	---------	----------------

Feature	Jumpered	Not Jumpered	
1. Display	Celsius	Fahrenheit	
2. Heating operation differential	2 degrees	1 degree	
3. Heat control	No delay	5 minute delay	
4. Cool control*	No delay	5 minute delay	

* T201, heat only model, only has jumper options 1 thru 3. A fourth jumper location exists but is non-functional in heat only models.











Figure-4 Typical T205 Wiring to Heating/Cooling System With Single Transformer.







Figure-6 Typical T207 Wiring To Heating/Cooling System With Single Transformer & Reversing Valve.

INSTALLATION Inspection

Inspect the package for damage. If damaged, notify the appropriate carrier immediately. If undamaged, open the package and inspect the device for obvious damage. Return damaged products.

Requirements

- Tools (not provided)
 - Writer's Note: Need list.
- Training: Installer must be a qualified, experienced technician
- Other accessories as appropriate

General

WARNING

- Electrical shock hazard! Disconnect power before installation to prevent electrical shock or equipment damage.
- Make all connections in accordance with the electrical wiring diagram and in accordance with national and local electrical codes.

CAUTION

- Avoid locations where excessive moisture, corrosive fumes, explosive vapors, or vibration are present.
- Avoid electrical noise interference. Do not install near large conductors, electrical machinery, or welding equipment.

Federal Communications Commission (FCC)

NOTE _

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference if not installed and used in accordance with the instructions. Even when instructions are followed, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio and television reception—which can be determined by turning the equipment off and on—the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Canadian Department of Communications (DOC)

NOTE

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe B respecte toutes les exigences du Reglement sur le material broilleur du Canada.

European Standard EN 55022

WARNING

This is a class B (European Classification) product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Mount the T200 series to a suitable surface. The T200 is shipped with an adapter plate (4-1/4 x 4-3/4 in.) that covers the mounting blemishes of a previous thermostat. New installation will not need the adapter plate. Do not mount on a surface that exceeds $125^{\circ}F$ (52°C).

Wiring

NOTE

- The T200 series is a powered thermostat which must receive 75 mA of power at all times.
- Some systems may require a 250 ohm, 5 watt resistor (included) to be installed across the "W" and "C" terminals of the furnace or boiler control board (Figure-2) to assure proper current draw for the thermostat. Install the resistor if the thermostat setpoint cannot be adjusted, if the heating relay cycles too often (1-15 seconds), or if the heating relay will not cycle.
- The T200 series cannot operate with a millivolt automatic self-powered gas heating system unless an isolation relay and a separate 24 Vac transformer are used. Install an isolation relay if the ignition blower runs continuously or if the furnace will not shut off when the thermostat reaches the set temperature. Another symptom is that the furnace may not turn on.

T201

The T201 models are a heat only model with a "HEAT/OFF" system switch and no fan control. Applications include hydronic and radiant floor heating systems as well as gas and electric forced air heating systems. Refer to Figure-2.

T204

The T204 model is a cool only model with a "COOL/OFF" system switch and a "FAN ON/AUTO" fan switch. Applications include direct expansion cooling only systems. Refer to Figure-3.

T205

The T205 models are heat/cool models with manual changeover. The unit consists of a "COOL/OFF/HEAT" system switch and a "FAN/ON/AUTO" fan switch. Applications include hydronic heating and radiant floor heating systems as well as gas and electric forced air heating with conventional air conditioning systems. Refer to Figure-4 and Figure-5.

T207

The T207 models are heat/cool models with manual changeover and B (powered on heat demand) and O (powered on cool demand) terminals. The unit consists of a "COOL/OFF/HEAT" system switch and a "FAN ON/AUTO" fan switch. Applications include all of the T205 applications plus single stage heat pumps and forced air zoning systems that require B and O outputs. Refer to Figure-6.

For field selectable jumper options see Table-2.

For jumper and terminal locations see Figure-1.

Auto Fan Control (HC/TH)

A three-pin jumper (Figure-1) is set to enable the HC or TH mode.

The HC mode is used in electric heat applications to energize the fan relay at the same time the heating relay is energized. The TH mode is used in fossil fuel applications where the furnace, not the thermostat, controls the fan directly. In this application, a call for heat only energizes the heating relay.

Optional Freeze Protection

When the T200 thermostat is ordered with the FP option a limit switch is wired in parallel with the terminals R and W. This will provide power to a heating valve or relay if the thermostat fails. This provides freeze protection to $40\degree F (4\degree C)$ as long as heat is available from the heat source.

CHECKOUT

- 1. Verify jumper pin selections.
- 2. Verify that the T200 is wired correctly to your heating and or cooling loads.
- 3. Confirm that 75 milliamps are available at all times. To measure the current draw connect an ammeter (set to measure milliamps) in series with the heat or cool output. If power value is below 75 milliamps install a 250 ohm 5 watt resistor in parallel across the switched load. Recheck for 75 milliamps. The T200 thermostats must have 75 milliamps to function properly.
- 4. Verify system Heat/Cool/Fan outputs: Heating — Connect a voltmeter in parallel across the heat output terminal, W, and common of the power source. Cooling — Connect a voltmeter in parallel across the cooling output terminal, Y, and common of the power source. Fan — Connect a voltmeter in parallel across the fan terminal, G, and common of the power source.
- The display will show the current room temperature as a number. Up to five dashes will appear under the number. Each dash represents 1/5 of a degree. The thermostats ON/OFF switching is based on whole degrees.

MAINTENANCE

The T200 series requires no maintenance. Replace defective modules.

Regular maintenance of the total system is recomended to assure sustained, optimum performance.

FIELD REPAIR

Replace battery with Energizer 357 or equivalent as needed. Replace any damaged or failed components with functional replacements.

DIMENSIONAL DATA



Figure-7 T200 Series Dimensions.

On October 1st, 2009, TAC became the Buildings business of its parent company Schneider Electric. This document reflects the visual identity of Schneider Electric, however there remains references to TAC as a corporate brand in the body copy. As each document is updated, the body copy will be changed to reflect appropriate corporate brand changes.

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Submittal Data

VJR-1C

Spirovent® Junior Microbubble™ Eliminator

Job Name:	
Engineer:	
Contractor:	
Representative:	

Тад	Model	Flow	Size	Location



d (Pipe Size NPT)	3/4"	1"	1 1⁄4"	1 1⁄2"	2"
D	(inches)	2.6	2.6	2.6	2.6	4.0
H1	(inches)	6.0	7.0	7.8	9.1	10.8
h1	(inches)	0.8	1.4	1.5	1.6	2.3
L	(inches)	3.4	3.5	3.5	3.5	5.2
е	(inches)	1/2	1/2	1/2	1/2	1/2
Weight	(lbs)	3.0	3.5	4.0	4.5	8.5
Rec. Flo	ow (gpm)	6	10	15	30	40
Model N	lo. VJR-	075TM	100TM	125TM	150TM	200TM

(Dimensions for reference only)

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