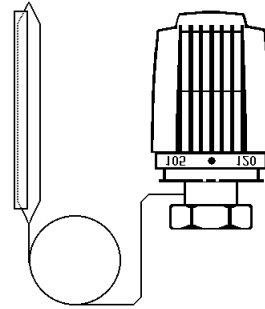


# Control Types 63C20 & 63C40 - Water Temperature Sensing (Radiant) Controls Installation & Operating Instructions

## APPLICATION

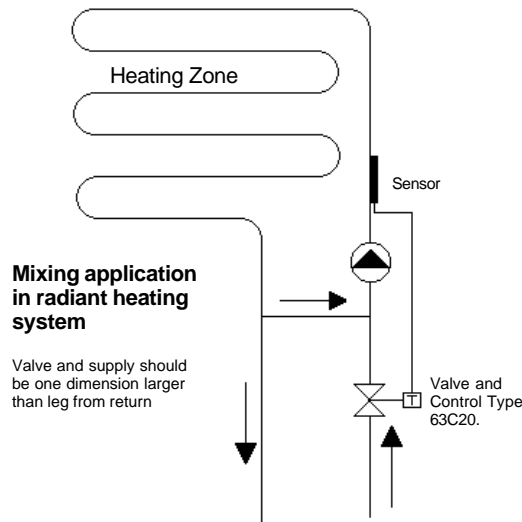
Type 63C20 and 63C40 controls may be used with any Ammark thermostatic radiator valve. The control is supplied with a bulb holder and straps to attach the sensing bulb and holder to a pipe. The sensing bulb may also be installed inside a well.



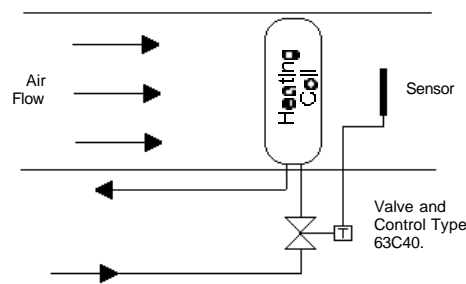
Type 63C20 & 63C40

## TYPICAL INSTALLATIONS

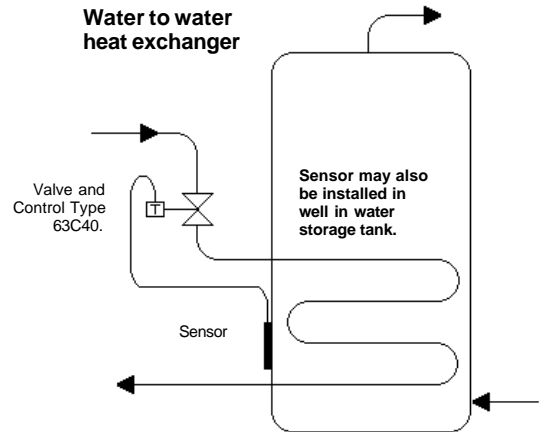
Ammark Control Types 63C20 and 63C40 feature extended temperature ranges and pipe contact sensors for applications which include temperature mixing, water to water heat exchange and water to air heat exchange.



### Water to air heat exchange



### Water to water heat exchanger



## CAPACITIES

Max System Temperature: 250 °F  
 Max Operating Pressure: 200 psig  
 Max Test Pressure: 725 psig  
 Max Differential Pressure: 40 Ft. W.G.  
 Adjustment Range - 63C20: 68 - 122 °F  
 Adjustment Range - 63C40: 104 - 158 °F

### Valve Size

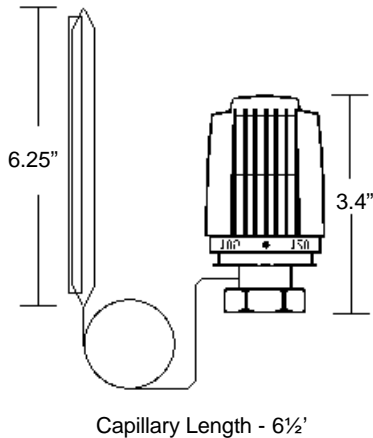
1/2"	3/4"	1"
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### Valve Capacity (C<sub>v</sub>)

1.2	2.1	4.9
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C<sub>v</sub> is the flow rate, in gpm, with 1 psi pressure drop across the valve.

**INSTALLATION DIMENSIONS**



	Part #	Size	A	B	C-63x0
	61.5	½	3¼	—	4½
	61.75	¾	4	—	4½
	61.100	1	5	—	5
	60.5	½	2	1	4½
	60.75	¾	2½	1	4½
	60.100	1	3	1	4¾
	67.5	½	2¼	1½	4¾
	67.75	¾	2½	1½	4¾
	67.100	1	3	1½	5¼

All dimensions / sizes are in inches. Dimension 'A' is with NPT tailpiece. Dimension 'C' indicates installation clearance for each control/valve combination (distance from center of pipe to the end of the control).

**INSTALLATION**

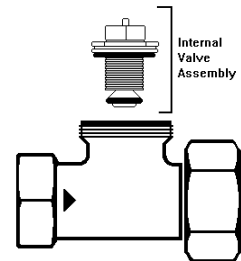
Each Ammark Type 63Cx0 Control is supplied with a sensor bulb holder and two cable ties.

To install the Type 63x0 Control:

- Turn the adjustment dial to the maximum. Press the control on the valve stem and tighten the control's connecting nut.
- Route the capillary to the sensor installation position. Store extra capillary by winding it around the neck of the control above the connecting nut.
- Attach the sensor and bulb holder to a of pipe using the cable ties. The sensor may also be installed in a length of pipe or in a vessel using the optional immersion well (part #TIW).
- Adjust the control's setting to automatically maintain the desired temperature. The control dial's scale displays temperature in degrees F.

**MAINTENANCE**

When replacing a control which is not functioning, remove the old control from the valve by loosening the connecting ring. If the old control was damaged by leakage from the valve stem, then valve maintenance is required. All seals and moving parts are incorporated into the internal valve assembly (IVA). The IVA may be removed and replaced with an adjustable wrench, or with Ammark tool #ICT to avoid draining the system.



**PARTS & ACCESSORIES**

	Part #	Description
	IVA	Internal Valve Assembly includes disk, stem and seals. Specify valve size.
	ATC	Anti Theft Collar prevents removal of control from valve. Fits all controls.

	Part #	Description
	ICT	Tool to remove and install IVA with system under pressure.
	TIW	½" NPT x 8" immersion well for use with Control Type 6320 or 63C40.