

# Rada® Single Point & Zoned/Group Control Systems

## Rada 320

Rada Thermostatic Mixing Valve of “sealed for life” disposable cartridge construction. Compact design and top and/or bottom blended water outlet make Rada 320 ideal for recessed enclosure, plumbing chase and mechanical room installations. Rada 320 is the mixing valve of choice for console, deck or “in wall” installation (Rada 320B) when installed for therapy/whirlpool bathing unit applications.

Complete operating mechanism of valve is enclosed in durable polymer cartridge for easy field maintenance. Powerful internal proportioning mechanism resists mineral deposits and buildup.

Capable of close temperature control at full (24 gpm/91 lpm) and reduced (1 gpm/3.8 lpm) flow rates. Able to blend to within 5°F (2°C) of either inlet supply due to “low seepage” across internal proportioning mechanism.

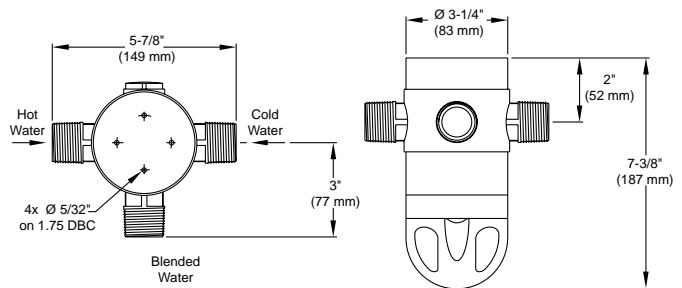
### Rada 320 Offers:

**Safety.** Dual thermostats provide redundancy in case of individual thermostat failure. Integral check valves prevent cross connection. Maximum temperature limiting and single temperature locking feature. Instant automatic shutdown prior to a 5°F (2°C) temperature rise/fall in the event of an inlet supply failure.

**Economy.** New technology and state-of-the-art materials reduce cost. Single “no spare parts” replaceable cartridge design reduces field maintenance and parts stocking requirements.

**Comfort.** Maintains a steady outlet temperature by constant internal monitoring and correcting of inlet supply temperature and pressure fluctuations.

*Rada 320 supersedes Rada 222, 17 and 20.*



Water Heating and Mixing

### Technical Specifications

- 1" (25 mm) NPT inlets and 1" (25 mm) NPT outlet
- Chrome-plated DZR brass/polymer construction
- Operating pressures
  - Maximum: 150 psi (10 bar)
  - Minimum: 10 psi (.7 bar)
- Maximum flow rate at 9 ft/sec (2.7 m/sec): 16 gpm (61 lpm)
- Maximum pressure loss ratio: 10 to 1\*
- ASSE 1017 and CSA B125 certified
- Flow coefficient (C<sub>v</sub>) 3.4
- Integral check valves and strainers
- Dual thermostatic elements
- Shipping weight 10 lbs (4.5 kg)

\* Ratio of inlet pressures accounting for restrictions on valve outlet (minus back pressure)

For fully detailed certified drawing, refer to CDLW #1061.

#### Rada Thermostatic Mixing Valves (gpm)

Model	Pressure Drop (psi)										Min. Flow	C <sub>v</sub>
	5	10	15	20	25	30	35	40	45	50		
110	—	.75	—	1.25	—	1.75	—	2.25	—	2.5	.5	.25
215	4	5	7	8	9	9	10	11	11	12	.5	1.7
320	8	11	13	15	17	19	20	22	23	24	1	3.4
425	15	22	27	31	35	38	41	44	46	49	2	6.9
40	36	51	62	72	—	—	—	—	—	—	2	16.0
50	49	70	85	98	—	—	—	—	—	—	2	22.0

*All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.*