



# Legionellosis

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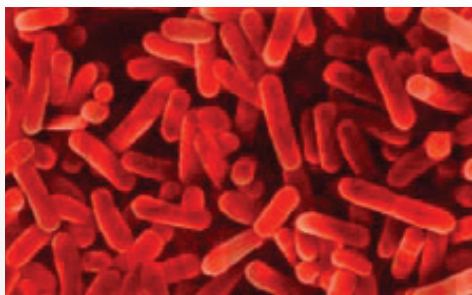
## in a few words

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# Legionellosis in a few words

## Legionellosis is a potentially fatal infectious disease.

Over 90% of Legionellosis cases are caused by a ubiquitous aquatic organism that thrives in temperatures between 25 and 45 °C with an optimum around 35 °C.



Temperature affects the survival of Legionella as follows

70 to 80 °C	Disinfection Range
66 °C	Legionellae die within 2 minutes
60 °C	Legionellae die within 32 minutes
55 °C	Legionellae die within 5 to 6 hours
Above 50 °C	They can survive but not multiply
20 to 50 °C	Legionellae growth range

## PREVENTION

- Water systems must be decontaminated by periodically heating the water at 71 to 77 °C for more than 5 minutes.

**CAUTION :** Beware of the potential for serious scalding hazards.

- The Domestic Hot Water (DHW) must be stored at a temperature of at least 60 °C and the circulated water at at least 50 °C. Even when the DHW needs to have a temperature around 40 °C, the temperature in the boiler must still remain 60 °C. Therefore, a thermostatic mix valve must be installed near the draw off point.

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## ACCESSORIES

ARTEMIS has made a simple electronic panel that provides protection against Legionella. The temperature of the sanitary water rises periodically at 75 °C for 10 minutes. Then the system returns to the initial situation.

