



Aim for a society without harmful bacteria from household water to industrial water and water purification plant

Under Development

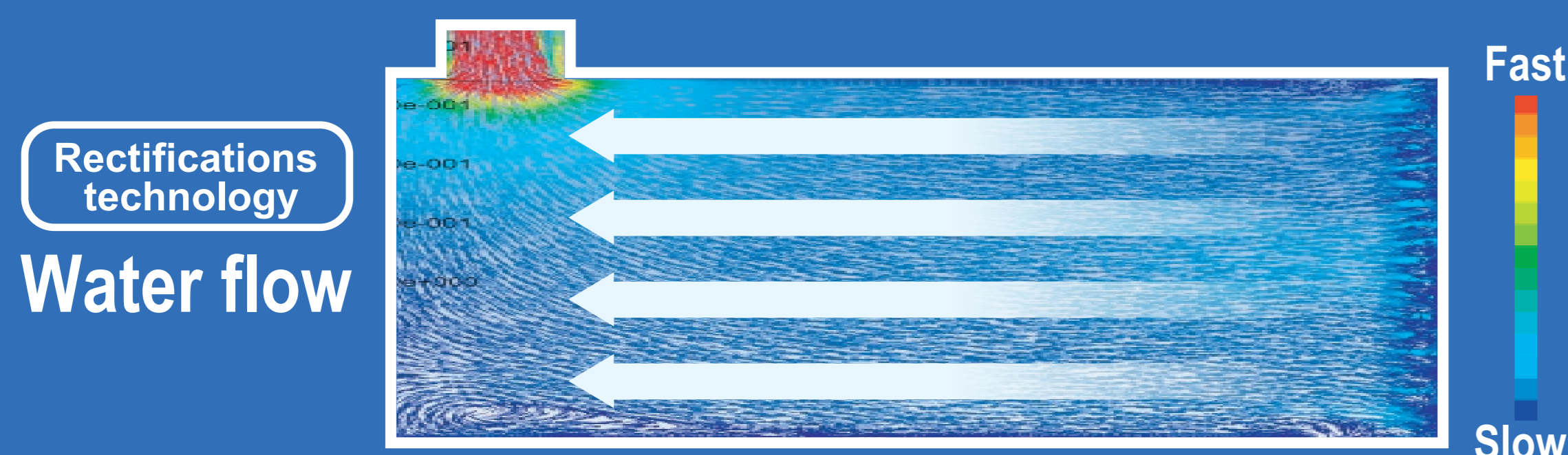


UV-LED Water Sterilization Reactor

- Improvement of sterilization performance by water rectification mechanism and lighting distribution technology.
- Environmentally friendly mercury-free.
- Optimal structure is realized by integrating water rectification mechanism and light distribution technology cultivated in automotive headlamp.
- Strong in ON/OFF lighting comparing with mercury lamp.
- Necessary power can be obtained instantly comparing with mercury lamp.

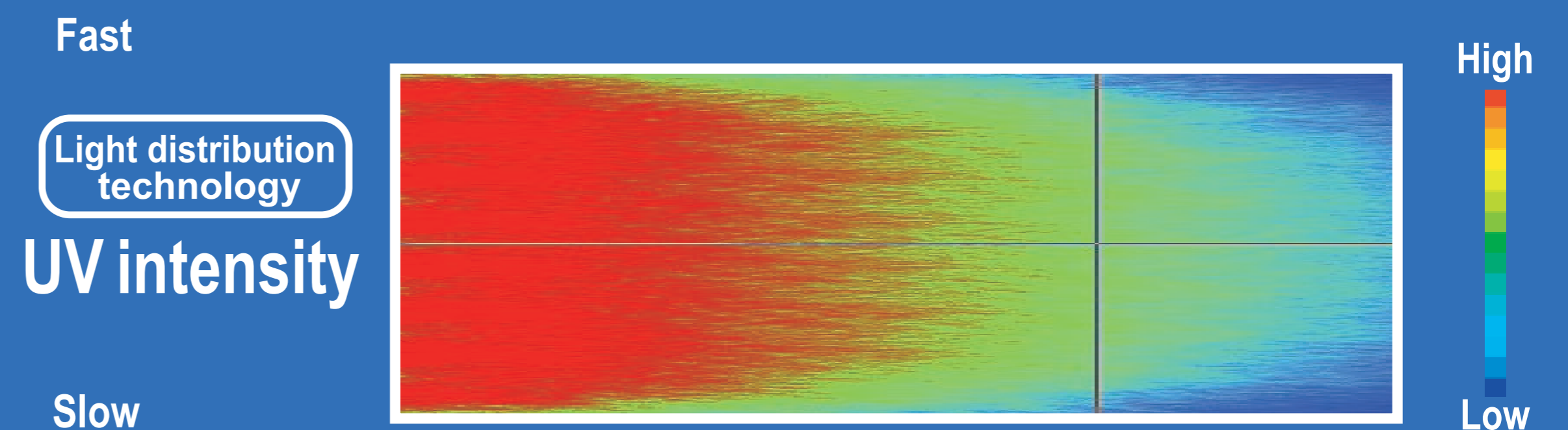
Simulation inside the processing section

Uniform flow velocity is obtained by aligning the speed of water using water rectification mechanism.



Water flow has become laminar. (Vector direction and color)

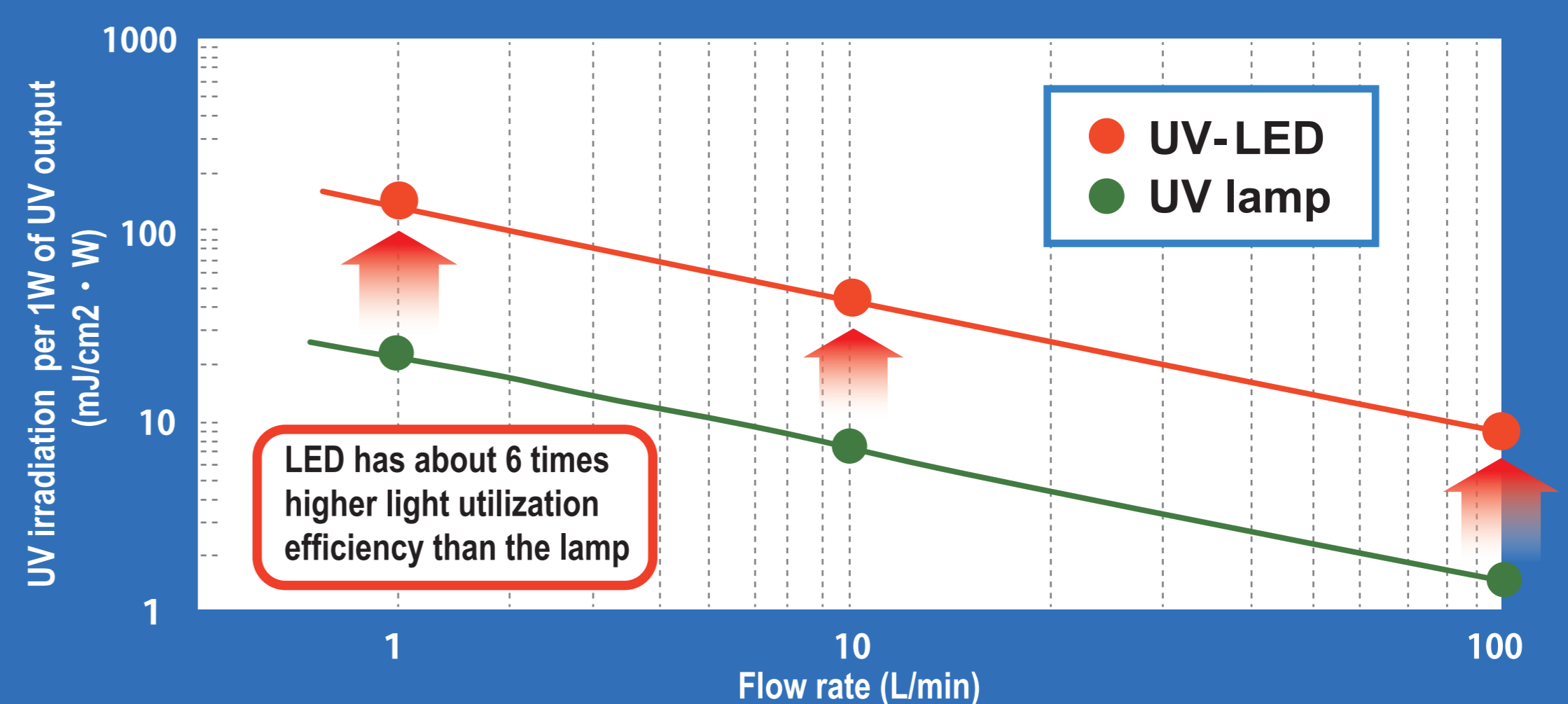
Uniformed irradiation of Deep-UV light enable by light distribution technology



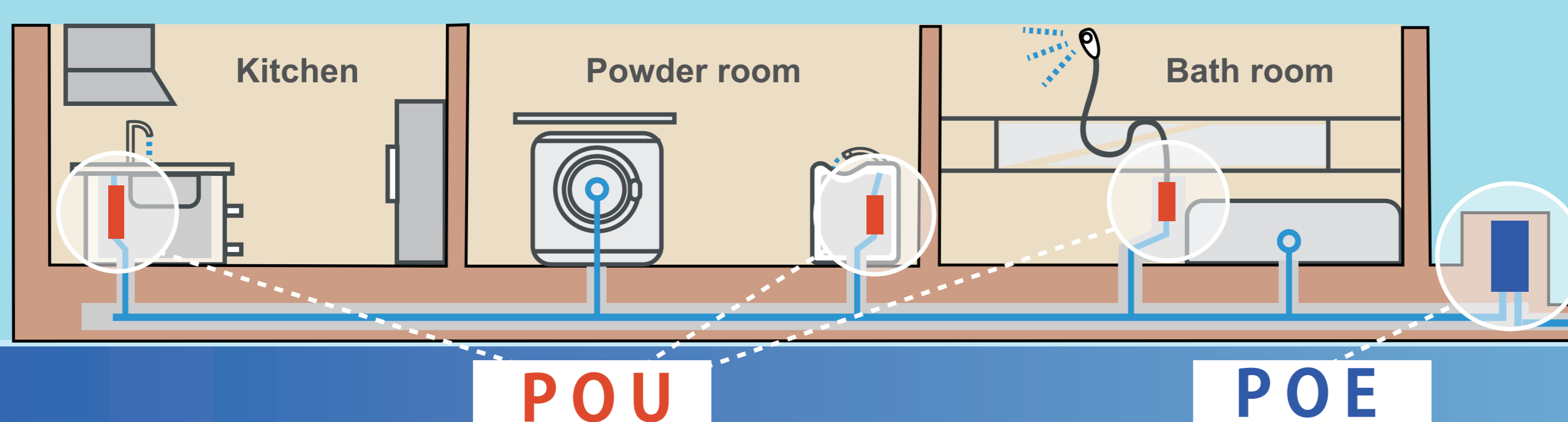
Except for the reflector, the light distribute is design so that the LED light does not hit the tube wall. (light intensity distribution)

UV irradiation per output power

LED reactor has about 6 times higher light utilization efficiency than the lamp reactor



Usage



POE: Water purifying system install at entrance of a building
POU: Water purifying system install at a place used