



# BIOPAQ<sup>®</sup>IC

## Anaerobic industrial effluent treatment

With anaerobic effluent treatment almost every industry can decrease (production) costs and meet tighter discharge limits.

*Hi, I'm Andy.  
I generate your  
bio energy!*





# BIOPAQ<sup>®</sup>IC

## Characteristics of the BIOPAQ<sup>®</sup>IC

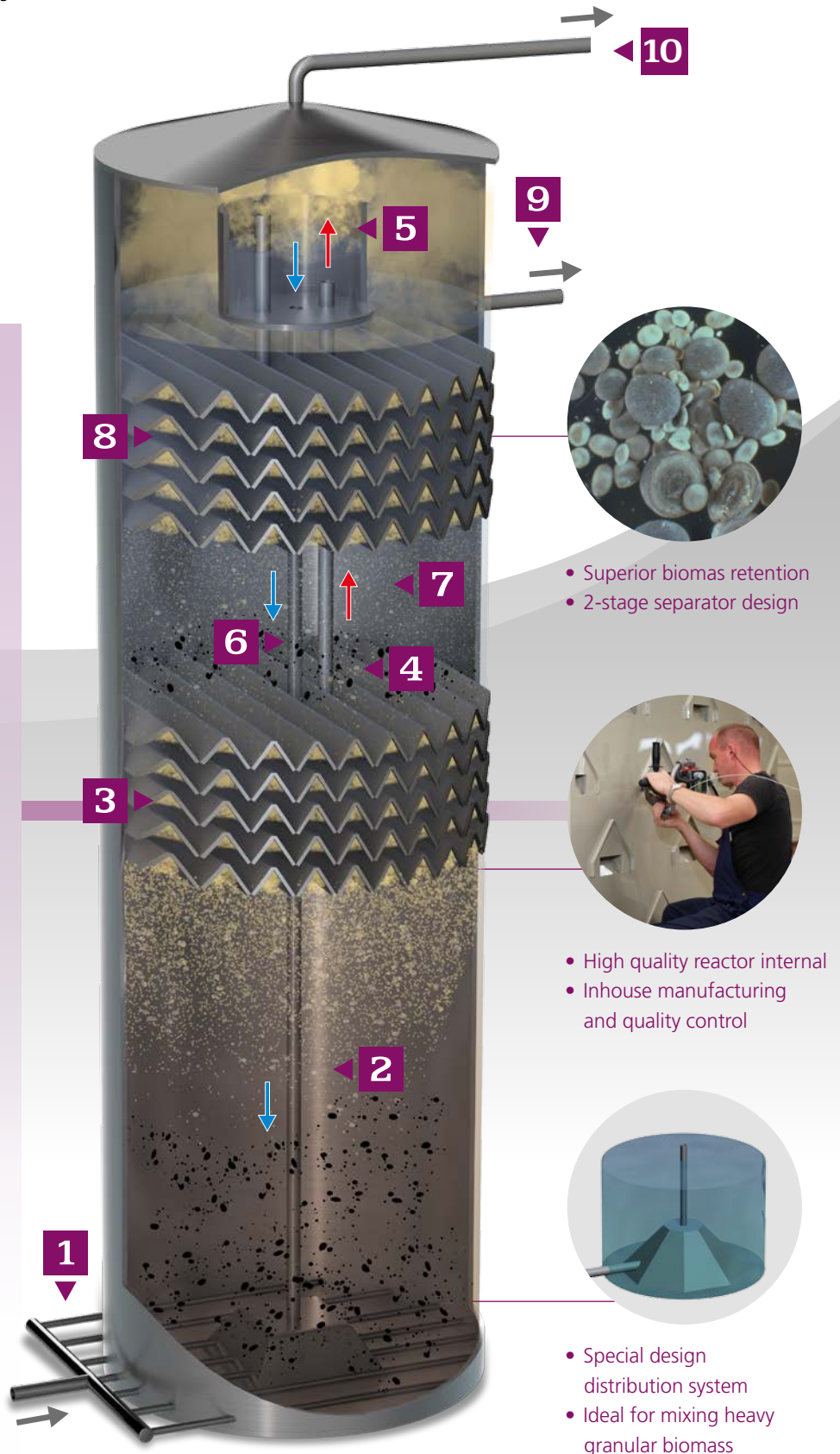
- Suitable for urban environments
- Meeting stringent and rural site conditions
- Vertical tank, wide range reactor sizes
- Reliable, self-regulating system, internal circulation system

- 2-stage separator design
- Minimised neutralisation costs
- Consistent effluent qualities
- Compact reactor

- Robust system
- Handling high loading variations
- Fast, accelerated start-up

### BIOPAQ<sup>®</sup>IC, how it works

- 1** Industrial wastewater enters the reactor and is mixed with the granular anaerobic biomass in the distribution system
- 2** Organic components are converted into methane (biogas)
- 3** Biogas is collected in the lower phase separator, generating a 'gas lift'
- 4** Together with biogas, liquid flows upwards in the riser
- 5** Gas leaves the reactor in the liquid/gas separator
- 6** Water returns through the downer into the distribution system. Hence the name: Internal Circulation
- 7** The effluent is polished in the second, upper compartment
- 8** The biogas from the second compartment is collected in the upper phase separator
- 9** Effluent exits the reactor
- 10** Biogas leaves the reactor



- Superior biomass retention
- 2-stage separator design

- High quality reactor internal
- Inhouse manufacturing and quality control

- Special design distribution system
- Ideal for mixing heavy granular biomass

