

# ALMA Neutra

Compact neutralization system for pH correction



The [ALMA Neutra](#) is an automatic neutralization system designed to neutralize alkaline or acidic wastewater. A stacking tank is installed upstream of the neutralization unit as a pump reservoir and to homogenize the wastewater. Depending on the composition of the wastewater, a coarse or floating material separator is integrated. The collected wastewater is pumped into the neutralization reactor or neutralization section under level control. There, the wastewater is automatically neutralized by means of precise pH control. The required neutralization agents are dosed via the ALMAWATECH dosing technology. Dosing is precisely controlled using an inductive flow meter and a final pH control. This innovative technology ensures that the neutralized wastewater is discharged into the sewer in a controlled manner.

## Applications

- Food & beverage industry
- Breweries
- Industrial laundry
- Pharmaceutical industry
- Chemical production
- Research laboratories



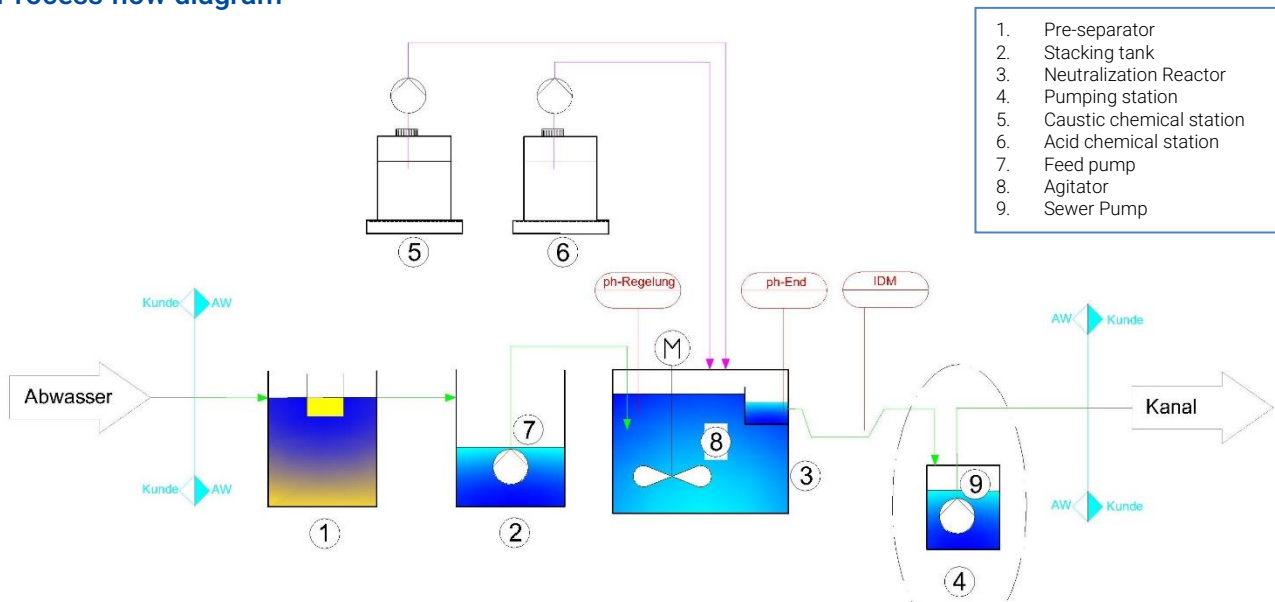
# ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

## Technical versions

Type	Flow rate [m <sup>3</sup> /h]	Reactor volume [m <sup>3</sup> ]	Procedure	Power consumption [kW/h/m <sup>3</sup> ]
Neutra 4D	1-4	1,5	Acid / Alkali / CO <sub>2</sub>	approx. 1
Neutra 8D	5-8	2,5	Acid / Alkali / CO <sub>2</sub>	approx. 1
Neutra 15D	9-15	4,0	Acid / Alkali / CO <sub>2</sub>	approx. 2
Neutra 25D	16-25	8,0	Acid / Alkali / CO <sub>2</sub>	approx. 2
Neutra 35D	21-35	10	Acid / Alkali / CO <sub>2</sub>	approx. 2

## Process flow diagram



## Specifications

- High process stability due to I&C and ALMA vision software
- Built-in pH control
- Optimum reaction of the neutralizing agents due to FU-controlled agitators

## Advantages

- Compact and robust design
- Low energy requirement
- Low space requirement due to compact design

## Reference plant





# ALMAWATECH

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ALMAWATECH GmbH - Your plant manufacturer and service provider in industrial water and wastewater technology offers everything from a single source

**Analysis &  
Optimization**

**Planning &  
Consulting**






**Water  
chemicals**

**Operations  
Management**








**Plant engineering**

## Wastewater and process water

-  Treatment for direct and indirect dischargers
-  Pre- and post-treatment of wastewater
-  Process water Recycling
-  Ultrapure water production
-  Individual system solutions for all branches of industry

## Procedure

-  Biological (aerobic/ anaerobic/ anoxic)
-  Precipitation, flocculation and neutralization
-  Filtration & reverse osmosis
-  Oxidation & hygienization
-  Modular systems

Specialized water chemicals from ALMAWATECH for wastewater applications, cooling water circuits, membrane systems and boiler plants.