

# WASH & CLEAN

## GET THE PRESSURE YOU NEED TO GET THE JOB DONE

- HYGIENIC CLEANING
- PROCESS WASHING
- PART WASHING



In wash and clean applications, challenges are plentiful: How to fit powerful pumps in small cabinets? How to prepare the system for sudden variations in flow? How to cope with hostile environments? Grundfos solves all these challenges and more by adding intelligence to the process.

## E-SOLUTIONS

### HIGH SPEED – OVERSYNCHRONOUS OPERATION

Get a high RPM in a very compact pump design. Ideal for installations where space is limited, such as portable equipment and installation in cabinets.

### RUN AT POWER LIMIT

Get full load power output, but optimal overload protection. Allows for operation with undersized motors.

### HIGH AMBIENT TEMPERATURE

Pumps operate at ambient temperatures of up to 60°C. The system initiates self-protection measures if limits are exceeded.

### ENVIRONMENTAL RATING SUITABLE FOR TOUGH ENVIRONMENT

Motors are delivered in IP55 environmental rating, but can be opened to IP54 where large variations at ambient temperatures occur. Also available in real outdoor version NEMA 4 or in an IP65 environmental rating.

## GRUNDFOS ISOLUTIONS

### DRY-RUNNING PROTECTION

Avoid overheating and pump damage caused by dry-running. The direct connected Liqtec dry-running protection detects lack of water and too high liquid temperatures.

### SET POINT INFLUENCE

Avoid cavitation or excess pressure across the chamber stack by adjusting the set point of the pump. Parameters include pre-pressure, flow, temperature, etc.

### BREAK TANK AND FEED PUMP CONTROL

Control one or more feed pumps as well as the level in the feed tank from the main pump control.

### CONTROL OF EXTERNAL EQUIPMENT

The operating point of the pump can control external equipment, i.e. compressors for air injection and/or dosing pump for detergent and disinfection agent during foam dispensing.