



# FAIRBANKS NIJHUIS™ ADVANCED PUMP TECHNOLOGY

[www.FairbanksNijhuis.com](http://www.FairbanksNijhuis.com)

# Delivering Added Value Worldwide

The local availability of potable water and protection against flood water is vitally important for every individual, company and country. This is where Pentair's Fairbanks Nijhuis line fulfills an important role: water transport from wet to dry areas, protection against floods and in the process of "raw to potable" and "salt to fresh" water.

Pentair's Fairbanks Nijhuis leads in innovative pump design and focuses on the pumping system as a function of the operating process as a whole. Thus, we develop tailor-made pumps with the highest achievable efficiencies.



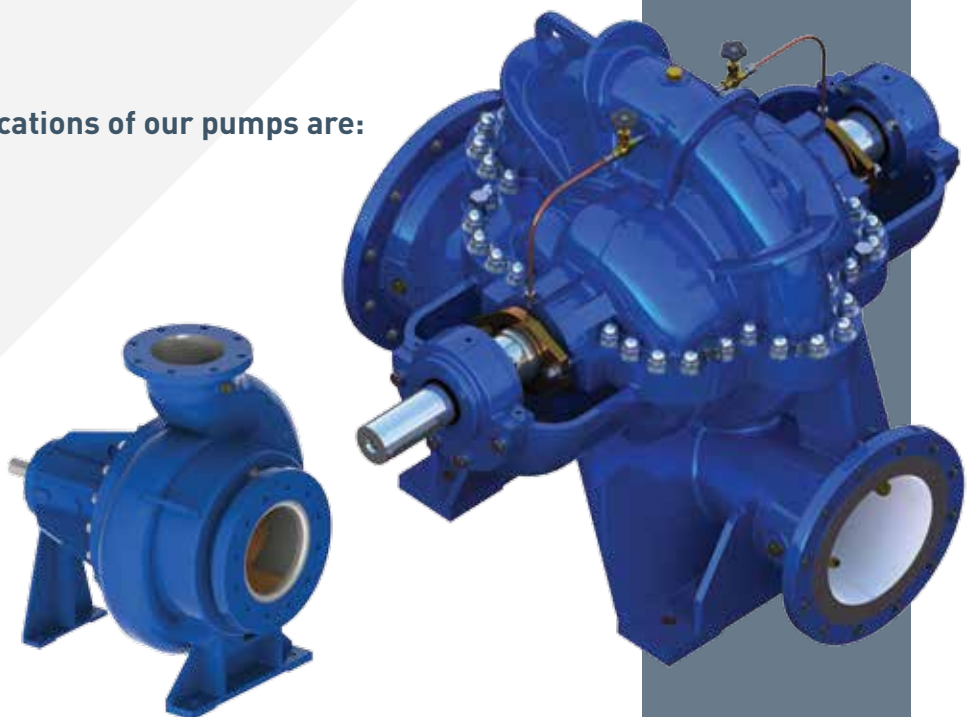
# Water & Responsibility

Today, markets look for business partners who think and support in a sustainable manner. Pentair anticipates this need with environmentally friendly Fairbanks Nijhuis products and reliable services that help customers reduce their energy consumption and carbon footprint. The Pentair employees supporting the Fairbanks Nijhuis line are committed to contributing to a better world by having the primary objective of: preserve the environment, protect society and enable our customer's business to prosper.

# Applications

**The most important applications of our pumps are:**

- Potable water stations
- Water treatment plants
- Sewage water systems
- Flood control
- Desalination plants
- Irrigation works/drainage systems
- Marine and dredging industries
- General industry (steel, paper, sugar and chemical plants)
- Fire-fighting systems on- and offshore



# A Valuable and Sustainable Solution

System design and performance are usually dependent on the availability and configuration of suitable pumps. At Pentair, we can modify our Fairbanks Nijhuis™ pump designs to meet the requirements of each individual system. This results in the best overall system performance for a specific application.

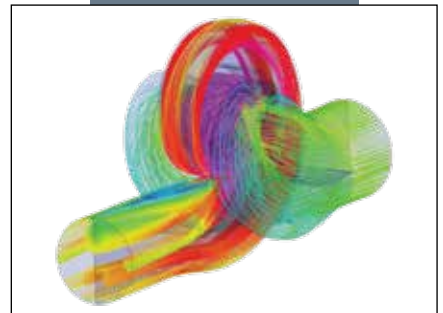
## Our customers benefit from:

- Reduced energy consumption
- Low vibration and noise levels
- Less environmental impact
- Upgrading of existing pumps
- Low operating costs
- Wide range of material options
- Extended service life and durability



# Know-How in Pump Design

Design modification can range from minor changes like reshaping the impeller to a dedicated design for a specific application. The vast experience and engineering know-how as well as advanced design software available through Pentair ensures that custom designs are developed in an expedient way. Hydraulic performance can be accurately predicted and all designs are subjected to structural analysis. Consider a customized solution as a valuable and sustainable option when selecting your pumps.

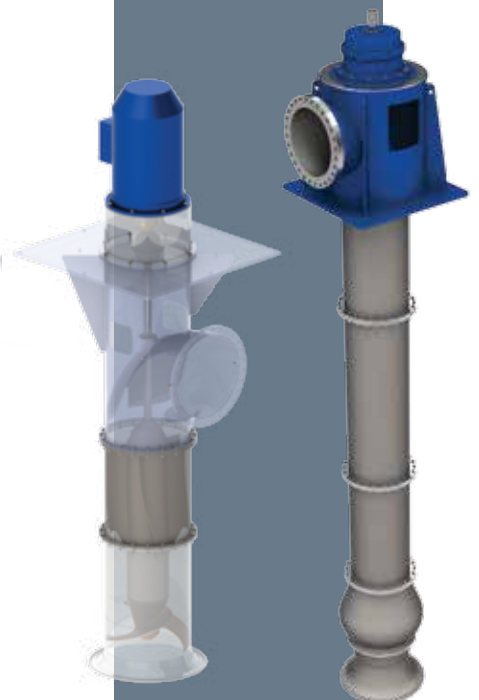


# Testing

Design verification occurs in our test facility. The test rig at Pentair's facility in the Netherlands is one of the most modern of its kind. With its capacity of 5 m<sup>3</sup> per second, it can be used to test the pumps within our product range. For very large pumps, either a scale model test is performed or extensive on-site measurements are conducted using our calibrated instrumentation.

# Production Facilities

Component patterns are produced in our pattern shop, according to the design department's coordinates. Our modern, in-house foundry guarantees first-class quality of our products. The machine shop is fully equipped to manufacture a wide range of pumps. A high degree of accuracy can be guaranteed thanks to modern CNC-controlled finishing machines and to our highly qualified specialists.



# We Protect Your Premises

When a fire occurs, you can count on a reliable Fairbanks Nijhuis™ fire-fighting pump set. The pump set restricts damage and costs to your premises up to 10 percent or less. The vital part of any fire-fighting system is the water pump, a product in which Pentair has built up high expertise. When designing and producing fire-fighting pump units, we focus completely on the specific wishes of our customers.

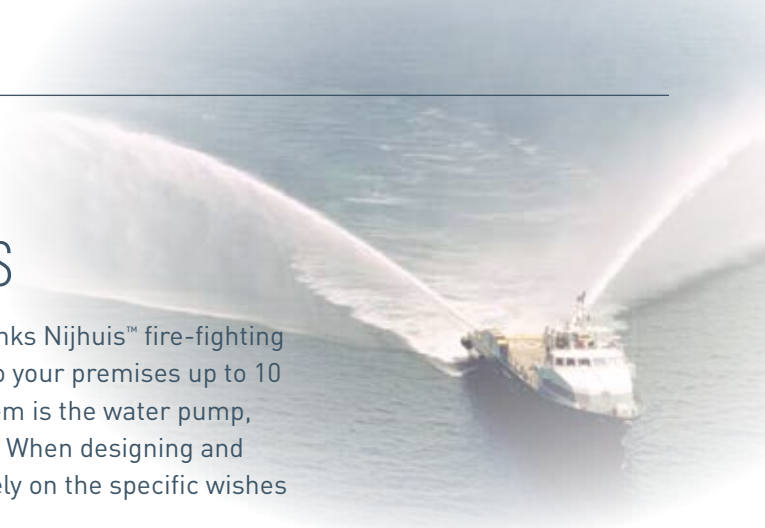
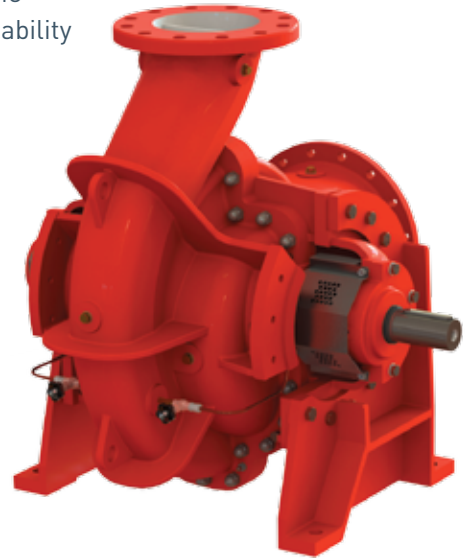
The scope of supply in fire protection consists of diesel- or electrical driven pump sets and control units, as well as complete mobile pump units in containers for use in fire-fighting systems. The units are fully automatic. For maritime applications, Pentair developed a compact Fairbanks Nijhuis fire-fighting pump range, according to FiFi class I, II, and III, with flexibility in configuration and the possibility for tandem combinations. The pump sets supplied comply with the latest relevant national standards and regulations, thus have a broad applicability throughout the world.

## Worldwide Applications

The pump sets are designed to supply sprinkler systems in buildings or factories with water from reservoirs, to cool oil storage tanks and to feed “monitors” on tugs, enabling them to extinguish burning vessels.

### Users of the Fairbanks Nijhuis fire-fighting units include:

- Sprinkler installation companies
- All major oil and gas companies
- Maritime industry
- Offshore industries
- Automotive companies
- Power plants
- Airports
- Department stores
- Pharmaceutical, chemical and other industries



# Downtime is Money

Our service department offers financially attractive service and maintenance contracts which guarantee that downtime in pumping installations is kept to a minimum, resulting in a cost-saving operation for our customers. Service is an essential element of our activities and fast response time is always of vital importance. The activities vary from incidental service visits on location to breakdown repairs and maintenance on a contract basis, including stock control of spare parts for groups of pumps (total care maintenance):

- Installation and start-up of pump systems
- Inspection, maintenance, repair and testing
- Maintenance of fire-fighting systems according to NFPA 25 regulations
- Condition dependent maintenance by proactive vibration measurements to keep optimal performance of your equipment
- Training of the end users' operators and maintenance staff
- Spare parts delivery



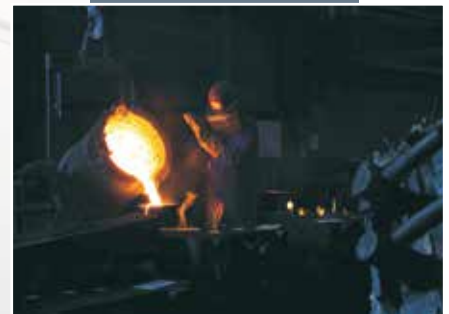
# The Strength of an In-House Foundry

Our modern in-house foundry and the machining facility guarantee first-class quality and offer complete independence from other suppliers for the production and fast delivery of spare parts. This enables us to fulfill customer requirements quickly and efficiently.



# Global Network

The after-sales service is supported by a global network of service centers and staffed by experts in state-of-the-art pump technology.





## WORLDWIDE

### Sales and Service Organizations

Pentair's Fairbanks Nijhuis pump line delivers high-quality products and services based on more than 100 years experience in the design, production and application of centrifugal pumps and pumping systems according to customers' specifications. In our facilities (Winterswijk, The Netherlands and Kansas, USA) our dedicated staff continuously sets the standard for product improvement based on the latest developments in the market. Using advanced computer-aided technology, we develop tailor-made pumps with the highest achievable efficiencies. After-sales service is offered, supported by a global network of service centers, staffed by experts in state-of-the-art pump technology. Customers who ordered pumps from Fairbanks Nijhuis decades ago are still regular customers, which indicate they trust and rely on our pumps and related services. The quality assurance program is certified by Lloyd's according to ISO 9001 and guarantees that products and services meet all international standards. The Fairbanks Nijhuis line embraces the values of sustainability, openness, reliability, and social responsibility within the company and especially in cooperation with customers, suppliers and the world around us.

## Pentair's

### Global Solutions Areas

#### FILTRATION & PROCESSING SOLUTIONS

Our advanced filtration, separation, treatment and quality control of water and other fluids provides solutions for restaurants and breweries, local municipalities and corporate office buildings.

#### FLOW MANAGEMENT SOLUTIONS

We enable the control, isolation and movements of fluids, gases and other media – solutions that help maintain crucial operations in industries as diverse as refineries, agriculture and municipal infrastructure.

#### EQUIPMENT PROTECTION SOLUTIONS

We create solutions that enclose, protect and cool essential electrical and electronic equipment to help keep vital systems running.

#### THERMAL MANAGEMENT SOLUTIONS

We help our customers manage heat requirements to maintain critical processes and provide greater control over a full array of thermal management demands.



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