



**ARKOIL**  
Technologies

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# Comprehensive Solution for Heat Exchangers



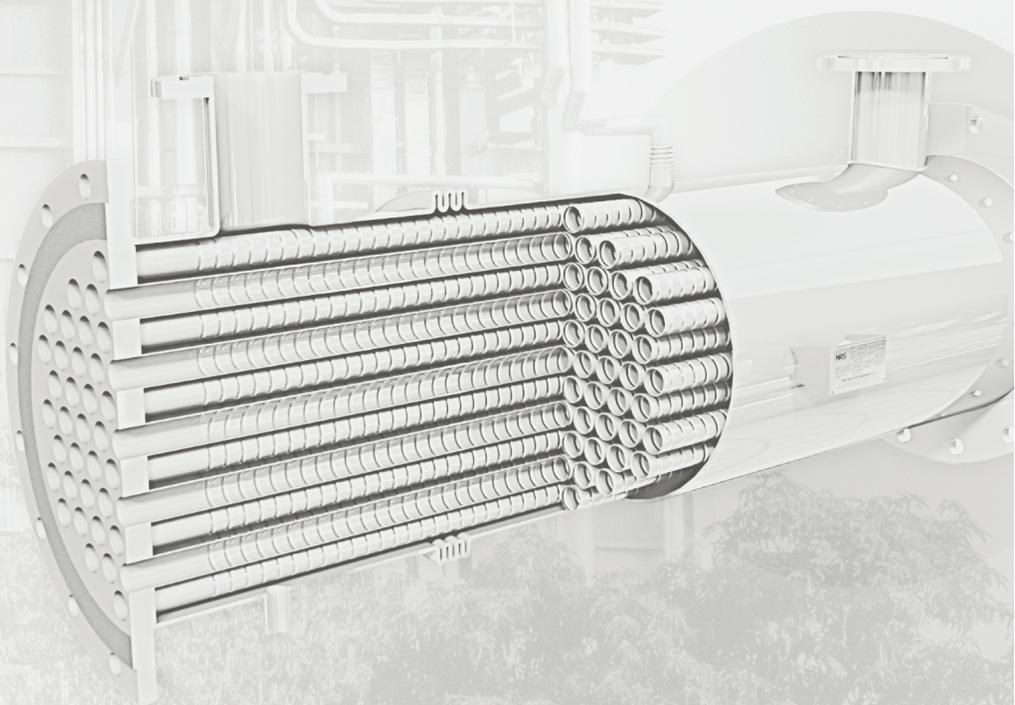
Eco-friendly



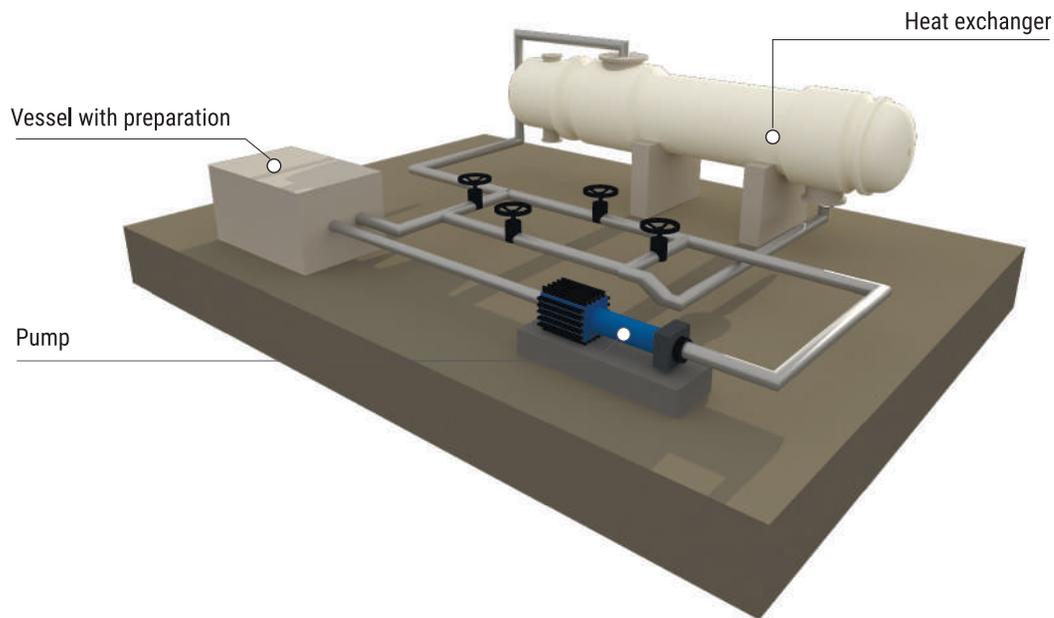
Time-efficient



Cost-effective



# COMPREHENSIVE SOLUTION FOR HEAT EXCHANGERS



## The process consists of:

- Cleaning of heat exchangers from sediments using Arkoil's preparation
- Remote monitoring of the condition of heat exchangers

## Solution:

Maintenance of the equipment is performed with no need for additional on-site monitoring of each heat exchanger.

Each heat exchanger is equipped with temperature and pressure detectors. The readings are transmitted automatically and continuously.

Cleaning of heat exchangers is performed using portable equipment with no need to remove them from the unit, at any height, without taking the unit out of service for repair. Having our own laboratory allows us to select a suitable composition of the preparation for highly effective removal of different types of sediments.

## Result:

- ✓ Ability to clean all kind of mineral deposits (salts, oxides, scale, limescale);
- ✓ No damage to the cleaned surface, including metal, plastic, rubber, as well as sealing gaskets, components and welded joints, etc.;
- ✓ Post-treatment protective film (passivation layer) remains, preventing the accumulation of new sediments;
- ✓ No additional disposal for the preparation is required.

## Main technical and economic advantages:

<ul style="list-style-type: none"> <li>Automated cleaning, without mechanical interference;</li> </ul>	<ul style="list-style-type: none"> <li>No need to remove a heat exchanger from the unit which enables cleaning it at any height, without taking the unit out of service for repair</li> </ul>	<ul style="list-style-type: none"> <li>Advanced system of remote monitoring and control;</li> </ul>
<ul style="list-style-type: none"> <li>Saving the Client's time and resources</li> </ul>	<ul style="list-style-type: none"> <li>Improvement of performance of heat exchangers and the overall plant</li> </ul>	<ul style="list-style-type: none"> <li>High safety level due to explosion safety of all the equipment and components applied</li> </ul>

## Comparison with other cleaning methods:

CLEANING METHOD	ENVIRONMENTAL COMPATIBILITY	CLEANING EFFICIENCY, %	PROJECT SCHEDULE	EQUIPMENT INTEGRITY (sealing gaskets, plates, etc.)	DISMANTLING
<b>Arkoil's technology</b>	+	98-100		+	-
<b>Mechanical cleaning</b>	+	90	  	-	+
<b>Chemical cleaning</b>	-	85		-	+
<b>Electropulse cleaning</b>	+	70	  	-	+



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