

# Application story



## Aggressive Chemicals for Reagent Manufacturer

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| <b>Location</b>                                          | Russia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Hydra-Cell model</b> | G10XKPJHFEHA                        |
| <b>Type of application</b>                               | Aggressive Chemicals for Reagent Manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Flow rate</b>        | 5 - 30 L/min (1.3 - 7.9 US gal/min) |
| <b>Liquid</b>                                            | Acids<br>Additives<br>Reagents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Pressure</b>         | Up to 17 bar (250 psi)              |
| <b>Application details</b>                               | <b>Hydra-Cell® Pumps Aggressive Chemicals</b> <p>LLC “Skoropuskovsky Synthesis” is a Russian manufacturer of reagents for the oil industry, with over 24-years experience. Using chemistry to increase the efficiency of drilling fluids, the Company produces acids, reagents, boring additives, varnishes, enamels, emulsifiers, etc.</p> <p>With such a variety of potentially corrosive liquids to dose, the Company had used single diaphragm, gear and plunger pumps with varying degrees of success. Single diaphragm pumps caused severe pulsation while leaking seals were a problem with plunger and gear pumps.</p> <p>In 2013 four Hydra-Cell G10 pumps (with polypropylene heads) were installed for a wide range of applications: dosing of additives, feeding the acids, pumping of reagents.</p> <p>The customer no longer has problems with seals or pulsation. The Hydra-Cell G10 pumps have proved to be easy to maintain reliable and energy efficient, saving costs all round.</p> |                         |                                     |
| <b>Advantages of Hydra-Cell pump on this application</b> | Hydra-Cell was chosen for this application for the following reasons: <ul style="list-style-type: none"><li>- With multiple diaphragms in a single pump head, Hydra-Cell offers a virtually pulse-less flow, without the need for expensive pulsation dampeners.</li><li>- Its seal-less design, offering 100% liquid containment and vastly reduced maintenance.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                                     |

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