

Product overview



Manufacturer of products from polypropylene



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About company

Since 2006 the company UralActiv Ltd. was engaged in supplies of ventilation equipment from Germany to Russia. In 2015 the company opened its own production of equipment and devices from thermoplastic sheets (**PP, HDPE, PVC, PVDF**), imported and Russian glass-reinforced plastics for media in chemical, food, medical industries and for abrasive medium.



All products are manufactured according to the technical specification TU 2291-001-95801889-2015



Available types of plastics:

Made in Russia:			
Abbreviation	Designation	Temperature range, °C	Notice
PP-BC	Polypropylene block copolymer	-40...+80	A default basic material
PP-Y	Polypropylene homopolymer	-5...+105	
HDPE	High density polyethylene	-50...+80	
Made in Germany:			
Abbreviation	Designation	Temperature range, °C	Notice
PVC	Polyvinylchloride	0...+60	
CPVC	Chlorinated polyvinylchloride	-40...+95	
PVDF	Polyvinylidene fluoride	-30...+140	
PPs	Flame-resistant polypropylene	0...+100	
PP-EL-s	Electrically conductive, flame-resistant polypropylene	0...+80	

Also devices can be manufactured from glass-reinforced plastic, coal-reinforced plastic

Specifications of thermoplastics

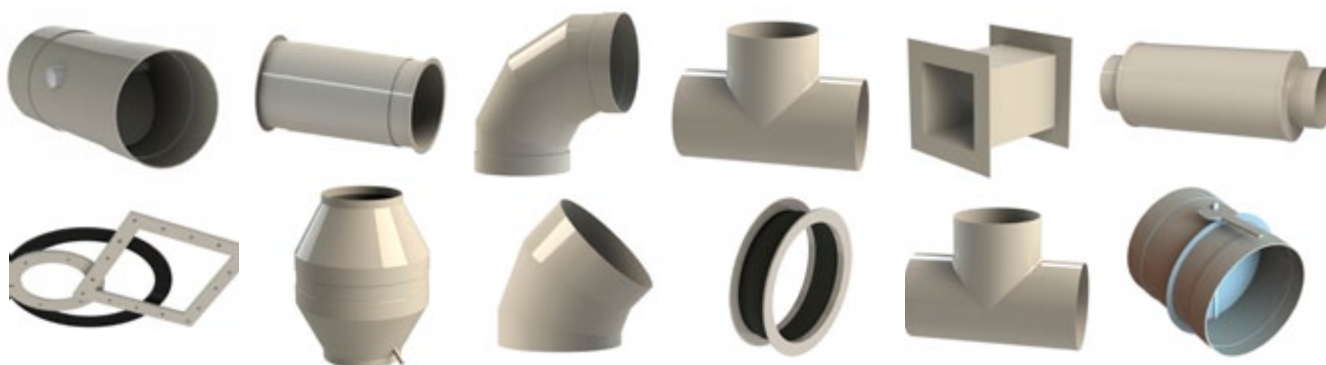
The customer and/or design company chooses the type of thermoplastics according to the temperature, composition and concentration of the media based on data from the table of chemical resistance thermoplastics and operation experience.



Plastic sheets (PP, HDPE, PVC) with a thickness of 3-30 mm are available in Zarechny town (Sverdlovsk region). It is possible to deliver to transportation company in Yekaterinburg.

Parts for ventilation systems (airways, bends, valves, sound attenuators, lateral hoods, outlet cowls) with diameter of 110-2400 mm

UralActiv Ltd. manufactures shaped objects for ventilation systems from different types of **polymeric materials**.



Scope of application:

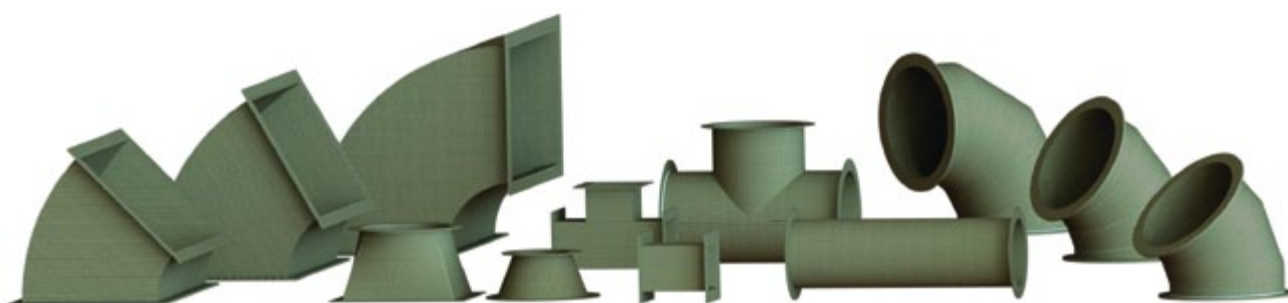
- laboratories in light industry;
- chemical industry;
- medical centers;
- clear rooms;
- surface working (etching, galvanic process);
- production of chlorine.

One of the main advantages of thermoplastic material as compared to metallic systems with the same properties is the relative low cost; it gives more economical efficiency together with the long service life.

The main material used in products – grey polypropylene. On special order other types of materials are available.



Airways and shaped objects from glass-reinforced plastic



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Made in Russia

Fans

Industrial polymeric radial fans of acid-resistant type. These fans are manufactured in all standard sizes of low, medium and high pressure. The suction diameter is 110-1600 mm, the capacity is 300-150000 m³/h and the pressure is up to 17000 Pa for different chemical acid or alkali mediums. The service life is about 50 years in aggressive gas medium. It is possible to produce the fans with explosion-proof design.



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Made in Russia

Gas washers (scrubbers)

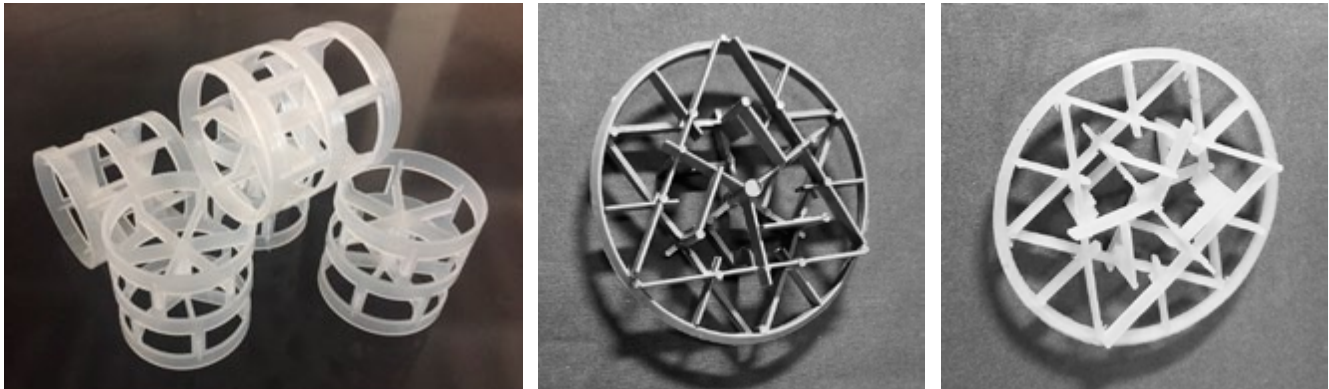
“Maksimov” gas washers are intended to clean the air contaminated with acid and alkali fumes, usually at electroplating industries, laboratories and in technological processes.

Scrubbers can be of two types: horizontal and vertical. Horizontal scrubbers “GM” are more compact and enable cleaning at high speeds of air-gas flow. The capability of scrubbers is 1100–100000 m³/h. The resistance of scrubber depends on model and can reach 300–800 Pa; scrubbers are intended for gases with temperature +5...+65 C°. The temperature of installation site: +5...+40 C° indoors (modification for outdoor use for the temperature -30...+30 C° is possible on special request). The efficiency of gas washers is 99 % for particles of minimum 10 micron.



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Mass-exchange and acid-resistant random packing

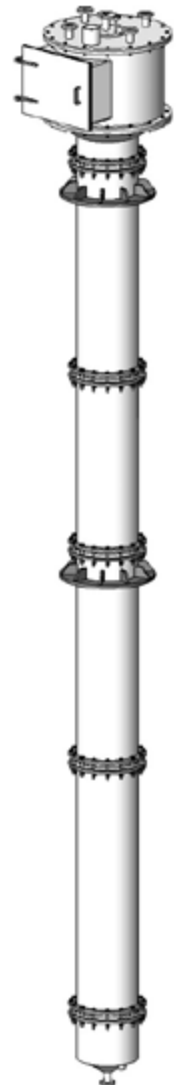


Ion exchange column

Ion exchange (recovery) column is a column of fluidized bed and is intended for regeneration and washing of resins (sorbents) after sorption.

A structure of device consists of shell ring connected with the flanges. The column is made from polypropylene, the flanges are made from carbon steel.

The cylindrical head wall is located in the upper part of device and has a hole for servicing. There are several pipe connections on the cover of head wall: pipe connections for airlift, for ventilation, for resin (sorbent) supply. The solution drain pipe is arranged in the lower part of head wall. The lower part of device has the conical bottom with connection pipe for supplying the solution and with connection pipe for mounting of the heater coil. The mounted inside the device airlift is used to remove sorbent.



Fibrous filters FVG-PP-UA

The company UralActiv Ltd. produces fibrous galvanic filters FVG-PP-UA of different types.



Demisters

Process of de-entrainment is widely used in the industries. Due to bends of profile in the demister's constriction the drops are stricken on the profile surface, are settled on the surface and after they flow down.

Demister for ventilation



Demister of cassette type



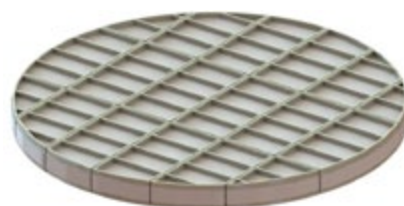
Mist extractors

Mist extractors are the polymeric filters for micro-droplets; they serve to catch various mists from all possible gas streams including particles of micron size.

Cartridge mist extractor



Mist extractor - DEMISTER



Laboratory furniture from polypropylene

The company UralActiv Ltd. produces laboratory furniture and use the most advanced and chemical-resistant material – polypropylene. Due to great properties of polypropylene our furniture for laboratories are used in many industry areas where the chemical resistance, corrosion resistance, leak resistance, economical efficiency, light weight, long service life and environmental compatibility are necessary. We can manufacture the furniture according to your dimensions and type.



Galvanic equipment (lines, baths, baskets, bells, drums and other components)

There is an opportunity to design and produce all types of polypropylene galvanic baths on the bases of our company.

The material using in galvanic baths depends on set, concentration and temperature of acids to be processed. Polypropylene baths are the most functional due to their accessibility and good chemical resistance.



Basket



Perforated drum from polypropylene



Mount catcher from fiber-glass composite

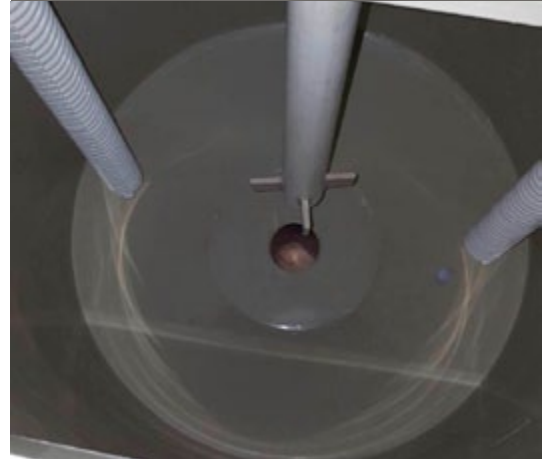
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Chemical reactors, cone classifier, nutsche filters, pressure filter, blow-case

Cooled reactor



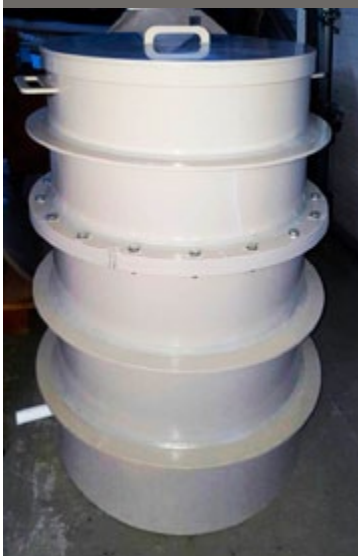
Reactor with agitator



Cone classifier



Nutsche filter



Pressure filter



Blow-case

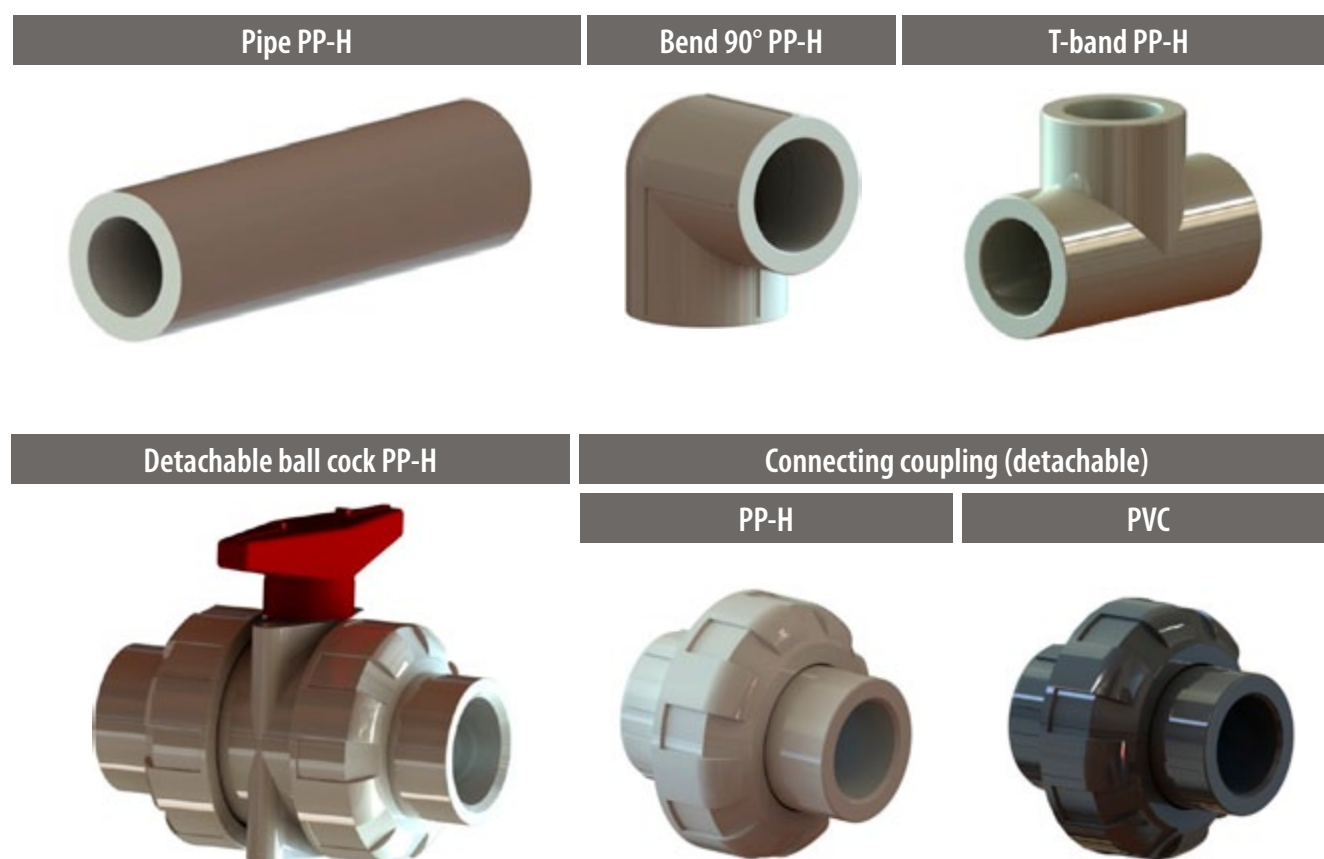


Pipes, fittings, T-bends, cocks from polypropylene- homopolymer (PP-H)

The company UralActiv Ltd. offers shaped objects made from polymeric materials for pipe systems.

Pipes, fittings, cocks from polypropylene-homopolymer (PP-H) for industrial purposes are distinguished by the high durability and high chemical resistance to the aggressive media. The devices have operating temperature 0...+95 °C, are 20-110 mm in diameter, of grey color (RAL 7032). The service life of devices is up to 50 years.

The customer or engineering company chooses type of thermoplastic material in accordance with temperature, content and concentration of medium and based on data from chemical resistance tables for thermoplastics and on the operating experience.



Available for sale

Please download detailed catalog on our web-site section «PDF catalogs»



Thickener (settling tank)

Thickener is a main device for mechanical treatment of waste water. The settling tanks are used to hold undissolved contaminants.

Laminar flow in the thickeners is achieved as a result of separation of settling area into low layers of plates with shallow depth. Thin-layered elements are used to increase the sedimentation efficiency.

Decarbonator

Decarbonators are used for removal of free carbon dioxide dissolved in water. The excess of such carbon dioxide causes metal corrosion and concrete deterioration.

Decarbonators are used in following types of water treatment:

1. hydrogen cycle with a "hungry" filter regeneration;
2. parallel hydrogen sodium treatment;
3. chemical water desalinization.

Decarbonator is a column filled with packings. The connection pipes for supply of decarbonized water and air outlet are placed at the top of tank cap. The connection pipes for air inlet are placed at the bottom of decarbonator. The connection pipes for decarbonized water outlet and for drainage are placed also at the bottom of device.

The operational principle of decarbonator is the desorption process, i.e. the transition of carbon dioxide dissolved in water out of liquid state into a gaseous state.



Systems for chemical dosing

The company UralActiv Ltd. offers design decisions of chemical dosing station for different branches of industry from thermoplastic materials (polypropylene, polyethylene, PVC, PVDF). Materials for pipelines, valves and joint packing are selected taking into account the resistance to processing medium.

Systems for chemical dosing have the main purpose to simplify the preparation of liquids with complex composition for industrial needs. To bring the liquid medium in a proper condition is the high-precision process.



Sorption carbon filter (FSU)

Carbon filter for water processing is made from thermoplastic materials (PP and HDPE). Main advantage of thermoplastics is the high resistance to abrasion and to cracking corrosion. This advantage provides long service life of equipment.

Sorption filters of high adsorbability with activated carbon are used in industrial and household systems for water purifying from residual active chlorine, organic compounds, unpleasant smells and bad aftertaste caused by organic and chlorine.

Carbon filters for water processing provide effective removal of following impurities from original water:

- turbidity (loamy suspension, ferric iron, sediments);
- chromacity (organic suspension, algae);
- residual active chlorine;
- organic compounds;
- smell and aftertaste.



Plastic pallets – Plastic pallets are the most common reusable tare which is widely used in warehouses, in trade, in industries and in business areas for loading and unloading operations. Pallets made from high-density polyethylene (HDPE) have many advantages:

- 100 % leakproof;
- Possibility to collect spilled active chemical components;
- Increased strength under large impact load;
- Possibility of multiple use by the temperature $-50\dots+80\text{ }^{\circ}\text{C}$;
- Easy to clean (hand and mechanical washing, sterilization);
- Available price and possibility to produce devices with off-standard dimensions.



Services

Design of PP gas cleaning system

Our major task by designing is to bring the working air into compliance with standards regulated the hazard index in working area.



Installation of PP systems

Our company manufactures and installs the products on a turn-key basis direct in the operation sites.



PP or PE Lining

Our company can also line (protect) the inner and outer surfaces of containers, reservoirs and baths by polymeric materials.



Certificates ISO 9001-2018



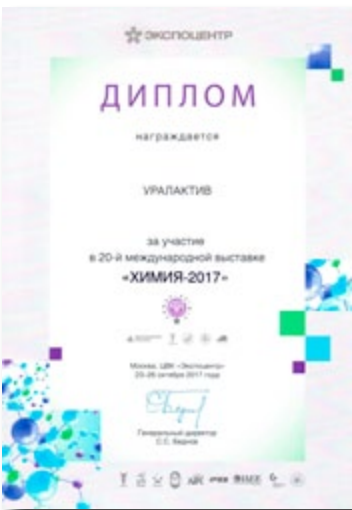
Certificate «Russian exporter»

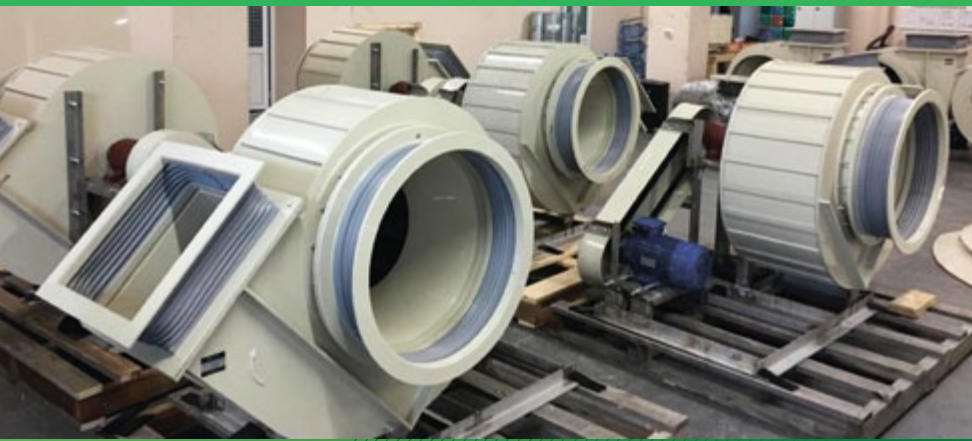


Certificate «made in Russia»



Diplomas





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