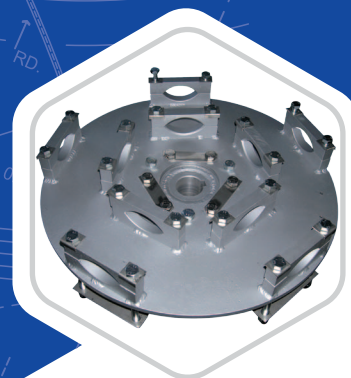




**"OIL AND GAS
EQUIPMENT
PLANT LLC"**



**IMPELLERS FOR COOLING
TOWER FANS (CTF)
AND AIR COOLER
UNITS (ACU)**



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IMPELLERS WITH PLASTIC BLADES

of different sizes and with a diameter of 1.7 to 0.7 meters
and the number of blades from 2 to 14 pcs.



PROFILE:

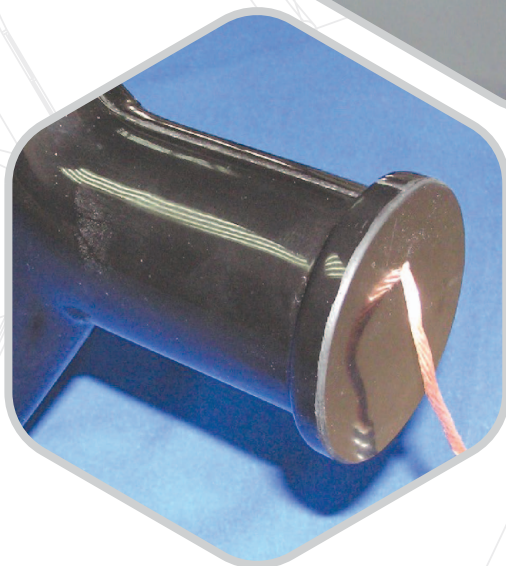
- contamination-insensitive.
- operation within a wide range of attack angles.

DESIGN:

- use of static eliminators.
- blade attachment design allows for easy attack angle adjustment.
- stainless-steel cover plate in a high line speed area.

TECHNOLOGIES:

- balancing based on a single conditional moment, which allows for blade installation in any sequence without impairing the general impeller balance.
- in-situ change of the impeller diameter up to ± 10 mm.





DISTINCTIVE CHARACTERISTICS AND FEATURES

of fiberglass impeller blades:

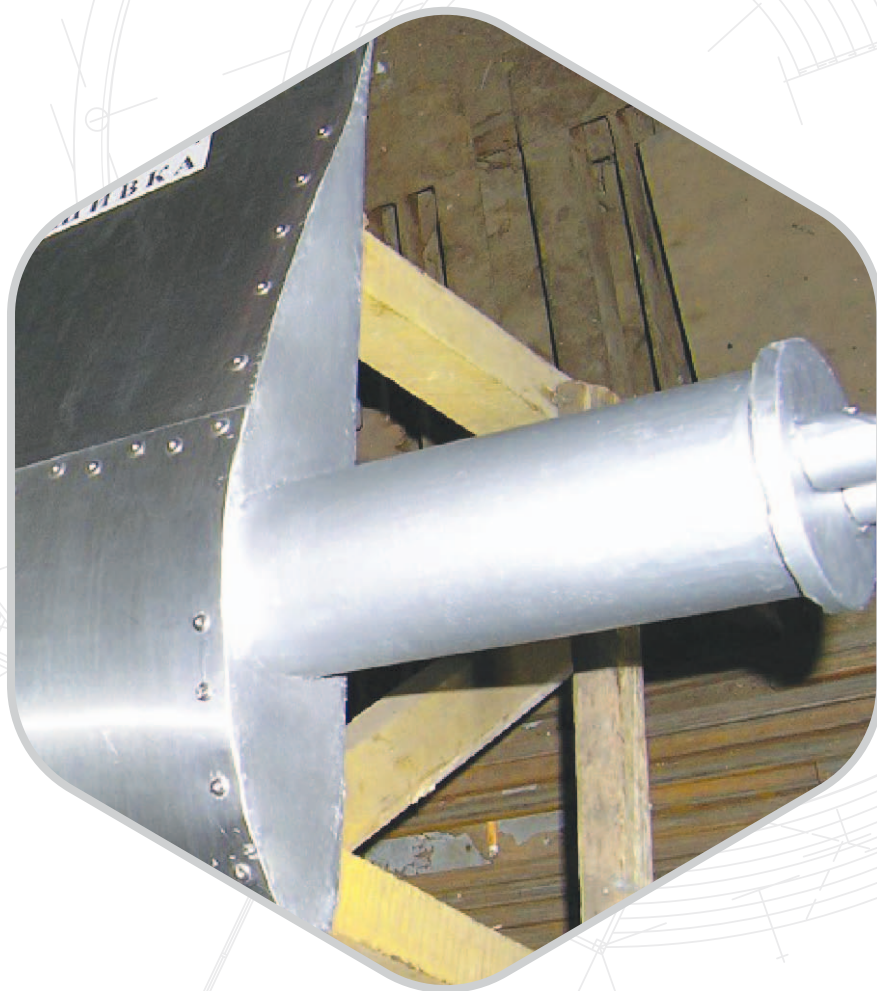


- the aerodynamic profile is slightly sensitive to surface contamination and works well in a wide range of angles of attack.
- the design of the blade provides the installation of a device for removing static electricity, which accumulates during operation on the surface of the blade.
- all blades in one or several sets are balanced according to a single conditional moment, which allows them to be installed in any sequence without disturbing the overall balancing of the impellers.
- the design of the blade attachment allows easily adjust the angle of the blade. When ellipsethe diffuser has the ability to change the impeller diameter to ± 10 mm.
- in zones with high linear velocities the leading edge of the blade has a protective cover plate made of stainless steel to prevent wear from collision with burning and micro drops of water injection.



METAL BLADE IMPELLERS

with metal blades made by riveting of different sizes with a diameter of 1.7 to 7.0 meters and the number of blades: 2 to 12 pcs.



PROFILE:

- contamination-insensitive.
- operation within a wide range of attack angles.

DESIGN:

- high-degree corrosion protection as compared to the existing counterparts.
- blade attachment design allows for easy attack angle adjustment.

TECHNOLOGIES:

- balancing based on a single conditional moment, which allows for blade installation in any sequence without impairing the general impeller balance.
- in-situ change of the impeller diameter up to -40 mm.

Framed diffusers for small cooling towers (height below 2.5 m)



DISTINCTIVE CHARACTERISTICS AND FEATURES

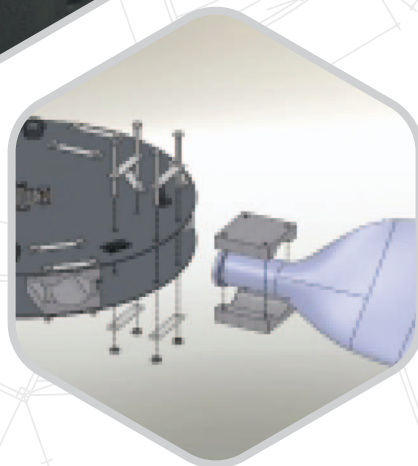
of blade impellers with metal blades made by riveting:



- impellers with stainless metal blades have a greater degree of corrosion protection compared to existing analogues of metal blades.
- all blades and spars are balanced according to a single standard which allows you to install them in any sequence without disturbing the overall balancing of the impellers.
- the blade mounting design makes it easy to adjust the angle of attack of the blades. When the diffuser is elliptical, it is possible to change the impeller diameter to ± 40 mm on the spot.



DESIGN



Design and manufacture of products as per technical specifications
TU U 29.2-31202656-001:2005.
Impellers for cooling tower fans and air cooling units.

Use of up-to-date graphics stations and CAE software systems SolidWorks and AutoCAD.

Preparation of detailed engineering drawings and instruction manuals subject to the requirements of the Unified System for Design Documentation.

After-sales products support.

Our products can be used at nuclear power plants, with technical specifications approved by AtomEnergo.



PRODUCTION STRUCTURE



**Engineering
Department**



Paint Shop



**Fiberglass
Shop**



**Mechanical
Shop**



**Finished
Products
Warehouse**



QUALITY CONTROL



Airflow measurement
in BF-50 cooling
tower diffuser



Blade shank
breakdown test

CONTROL:

- incoming quality control of materials in line with supplier quality certificates.
- inspection system implemented at all assembly stages.
- provision of data sheets for all products.

TESTS:

- static breakdown tests.
- checkout airflow measurements at operation facilities.