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«We are very different but still we are together. We are linked by idea to organise our life in such a way that we can live in comfort and save the nature for us and our children. Our team – is a multinational and of cosmopolitan form. We believe in progress of alternative harmless energy technologies, and we use the know-how of most developed in this field countries. The Israel, Germany, Austria, Sweden, Finland, Netherlands, China, South Korea, Japan, USA have been already for several decades actively using the free energy provided by the nature.

The professionals who love their occupation, – are being engaged in **ATMOSFERA®**. Our specialists are ready to give the profound and deep reply to any technical challenges of any rate of difficulty. The first and foremost priority for us is benefit and interest of our clients, customers and partners. This is an integral and essential part of ideology of our team and **ATMOSFERA®**, and we always adhere to it.

Best Regards from **ATMOSFERA® team**



ATMOSFERA TEAM®

All our specialists have professional higher education, profound knowledge and practical experience of design and installation works. The managers of **ATMOSFERA®** are the specialists in field of providing the heat and energy supply, engineering and business management.

ATMOSFERA® - «STAFF SUPPLY UNIT». The company invests in the higher education and training of specialists, organizes seminars and lectures. Our specialists take active part in conferences, discussion groups and professional seminars in Eastern Europe and CIS countries. In the Ukraine we annually enlist the talented students for practical work. Our practical students gain a new practical knowledge in trading, take part in projects development as well as in an assembling, installation and start-up works at the real sites and facilities.

ATMOSFERA® closely cooperates with higher educational establishments: annually we take part in scientific conferences of higher educational economic and technical establishments and institutions, we organise contests for best energy efficient technical and investment projects, we support the students green energy initiatives.

ATMOSFERA® monthly organises practical seminars and discussion groups for further advanced training of workers of company clients staff and of workers engaged in field of alternative energy market.

ATMOSFERA® PRINCIPLES

MISSION

We make energy-saving technologies and alternative power-engineering accessible and understandable.

WE PROVIDE COMFORT:

- physical – heat, light, hot water;
- economical – by using the technologies of company **ATMOSFERA®** further you do not have to spend funds on endless purchase of energy resources;
- spiritual – our life in comfort and warm houses make no harm to the nature.

STRATEGIC TARGETS

- Wide spreading of alternative sources of energy in Eastern Europe and CIS countries.
- Ensuring the supply of reliable, safe, dependable and affordable engineering systems to the ultimate consumer.
- Organising the professional service and assistance net **ATMOSFERA Assist** with purpose of maintenance and support not only of own systems but systems of other producers as well.
- Creating the wide partnership net across the whole territory of Eastern Europe and CIS countries.

ATMOSFERA® - TECHNOLOGIES OF NATURE



ATMOSFERA® - is one of the leading players at the market of renewable/alternative energy in the Eastern Europe and CIS countries.

The company was founded in 2007 on the basis of the enterprise, which since 2003 was producing a heat-insulating material and a new in that period construction material - foamed aerated concrete which was an innovation in field of concept of energy saving and heat-insulating. In 2007 the enterprise seriously got involved in the problems of energy saving and producing of the renewable natural sources and began studied the up-to-date technologies in the field of alternative energy and started development of a project concerning the implementation of such technologies in Ukraine. 2008 was a year of official start of ATMOSFERA®PROJECT. In the same year ATMOSFERA® reach out the Ukraine borders. Now ATMOSFERA® is an international group of companies operating in the territories of Russia, Ukraine, Belorussia, Moldova and China. TM ATMOSFERA® is successfully working in saving energy for the hospitals, kindergartens, hostels, hotels,

playschools, private and commercial entities and facilities. The Company is an active participant of the international exhibitions and trade fairs, in professional conferences and discussion meetings concerning the matters of alternative energy generating and saving technologies.

The company specialists thoroughly study the modern technologies of energy saving. Only tested by time and work, certificated and verified, reliable and trustworthy technical innovations and solutions.

We are not only sellers of the accessories for energy supply. By being a partner of ATMOSFERA®, you receive the ready for use engineering solution for generating energy **FOR YOUR FACILITIES, PROVIDING THE OPTIMUM BALANCE OF THE INSTALLATION CHARGES AND AND RADICAL REDUCTION OF EXPLOITATION EXPENSES.** Engineering solution – is a combination of professional design of the project taking into account the Customers needs, the high level of accessories and devices, their proper instalment and adjustment at the site of the Customers location, and the after sale guarantee maintenance and service.

«**PRICE+EFFICIENCY+PRODUCTIVITY+SERVICE**» – successful formula which distinguishes ATMOSFERA® products from those of competitors.

Main products: energy supplying systems on the basis of vacuum and flat solar panels and collectors ATMOSFERA®, heat pumps ATMOSFERA®, wind generators ATMOSFERA®, FORTIS® (Netherlands); thermo- siphon heliosystems ATMOSFERA®, spare and constructional parts for helio and geothermal systems ATMOSFERA®, B.R.V (Italy), Caleffi Solar (Italy); automatics and controllers ATMOSFERA®, RESOL® (Germany); flexible pipelines made of stainless steel GofraFlex® (South Korea).

Main services: design, installation and maintenance of energy generating systems, contract supervision of energy generating systems, specialists training, development of engineering solutions for commercial, municipal and private facilities and services.

Warranty: the company production is certified with international warranty certificates. It has undergone the tough tests. Today we are getting ready for certification according to the international management systems of warranty ISO 9001 and ecological management ISO 14000.

THE MAIN ADVANTADGES OF WORKING WITH ATMOSFERA®

Reliability. We are certain about our production. We use the best accessories, complete units and spare parts. We know that our energy generating systems will work steadily and reliably for the benefit of our Clients for many years after their installation. That is why we give a warranty period for our systems from 5 up to 15 years.

Best Price + High Efficiency. The main constructive parts of helio-systems ATMOSFERA® are being produced at the plant in China under the strict control and supervision of technical specialists. In local representation store houses the ATMOSFERA® systems are made up with German and Italian complete parts and working stations.

Thus we optimise production expenses and have possibility to offer the best price at the market providing the high standard of product and service. Our main feed back channel - references of our Clients, exhibitions and Internet. We are with our clients. That is why we do not put in price of the product the high expenses for advertising, and our Clients pay less than for similar products of well-known European brands.

High Quality Service. ATMOSFERA® guarantees to its customer operative and effective solution of tasks concerning the installation and maintenance of helio-systems, set up both by original company and by other companies.

Training. We constantly study our self and help our Partners and Clients to obtain up-to-date technical information and data about the modern energy-saving technologies.

Incontestable Facts. Usage of energy saving units of ATMOSFERA® is:

- ecofriendliness;
- stability in obtaining the energy;
- self-sufficiency;
- main generating unit durability increase;
- Independence from price increase of energy resources on the side of government and energy monopolists.

ATMOSFERA® SOLAR ENERGY PANELS

THE ADVANTAGES OF ATMOSFERA® HELIOSYSTEMS USAGE

RELIABILITY: the working period of solar energy panels is 25 years, the warranty term for the systems is from 5 to 15 years.

PRODUCTIVITY: ATMOSFERA® Helios-systems cover from 30% to 90% need in hot water and up to 30% of room heating.

EFFICIENCY: ATMOSFERA® Helios-systems are known for their high efficiency in summer and winter time periods. By using ATMOSFERA® systems, the customer has possibility to switch off the heating system for summer time and thus sufficiently reduce expenses and increase durability of central heating system.

IT IS INTERESTING TO KNOW:

The amount of solar energy hitting the Earth during a day is ten thousand times more than the amount of energy consumed by whole population of Earth during a year.



Highland hotel «ARK HOUSE», Carpathian Mountain Megura 1313 meters above sea level

ATMOSFERA® SOLAR VACUUM COLLECTORS

SVK-A TYPE

SVK-A type collector (panel) is efficient for use in all year round mode. The efficiency of collector is up to 95%. It has high efficiency in conditions of low incoming solar radiation. The aluminium frame of collector lessens the load on carrying roof constructions. The versatile construction of frame can be installed on any type of roofing: from horizontal to vertical surfaces. The insulation of heat-exchanger is 75 mm. The following modifications are available with 10, 15, 20, 25 and 30 pipes. It can be additionally completed with reflectors (increase efficiency by 15%-20%).



SVK-HP Standard

The SVK-HP Standard is efficient for use in all year round mode. The efficiency of collector is up to 90%. It has a stable productivity during cloudy weather. The aluminium frame of collector diminishes the load on the roof carrying constructions. The construction frame is intended for angle surface installation. The insulation of heat-exchanger is 45 mm. The following modifications are available with 20 and 30 pipes. They can be additionally completed with frames for flat roof installation. It can be additionally completed with reflectors (increase efficiency by 15%-20%).



SVK-VA TYPE



SVK-VA collectors are specially designed for installation on standard balconies of block of flats and private houses. It is efficient for work by all year round mode in all regions of Ukraine. The collector efficiency is - up to 95%. It has a high productivity in conditions of low solar radiation. The aluminium frame of collector diminishes the load on the roof carrying constructions. The versatile construction of the frame can be installed on any type of roofing: on horizontal and on vertical surfaces. The insulation of heat-exchanger is 75 mm. The pipe length is 850 mm. The modifications are available with 30 and 35 pipes.

SVK-SCHMV TYPE



The SVK-SCHMV collector has a rigid fixing of absorption surface to the Heat Pipe system, which enables starting of pipe work in less than 1 minute. It is ideal for installation on large buildings. The collector efficiency is - up to 95%. The aluminium frame of collector diminishes the load on the roof carrying constructions. The frame design enables to make installation both on slant and horizontal surfaces. It is built with the modern super pipes - Super Heat Pipe. It is available in modifications with 10, 15 and 20 pipes.

HIGH-SELECTIVE FLAT COLLECTORS ATMOSFERA®

- 30% lower in cost than the vacuum collectors;
- best for the seasonal work in conditions of high solar radiation;
- replace a part of roofing or frontage (materials saving, thermos-insulation);
- provided with high-selective, single plate absorber of new generation Bluetec Eta Plus (Germany).

High temperature resistance of absorber (to 295°C) enables the system to stand the periods of stagnation with no harm to the collector and to the system;

- The special patented welding method of copper pipes with absorber plates by impulse laser provides super firm elements fixing.



SPK-F1 model

High-selective absorber of new generation Bluetec Eta Plus (Germany) of collector SPK-F1 has 100% single-element coating over all plate width, which absorbing ability up to 95% of radiation energy, with emission of heat energy not more than 5%. It can be installed on any surface. The frame is made of anti corrosion aluminium alloy covered by special coating of dark colour. The collectors SPK type have elegant high tech design.



SPK-F1 Roof model

High-selective flat collector SPK-F1 Roof is perfect for seasonal work in conditions of high solar radiation. The collector efficiency is up to 97% in summer time. The frame is made of anti corrosion aluminium alloy covered by special coating of dark colour. The collectors SPK type have elegant high tech design. It can be installed directly in the roof. Strong case is completely water-proof. It can replace part of roofing or frontage making economy for construction materials.



ATMOSFERA®THERMOSIPHON HELIO-SYSTEMS

Thermosiphon Helios-systems ATMOSFERA® – is the most simple and affordable type of vacuum solar water heaters. It is efficient for hot water supply in summer time and inter-season period. They are used for hot water supply for cottages, weekend houses for technical and household needs. It can be automatically controlled or work separately.



The systems are fitted up with double-layers, shake-proof vacuum pipes. The installation is very simple: the system is easy to fix, easy to control, demands no special knowledge and skills. The durability of the system is not less than 25 years, warranty period is up to 5 years. The efficiency can be increased by 20% with use of reflectors. Possibility of additional fitting up: intellectual controller,

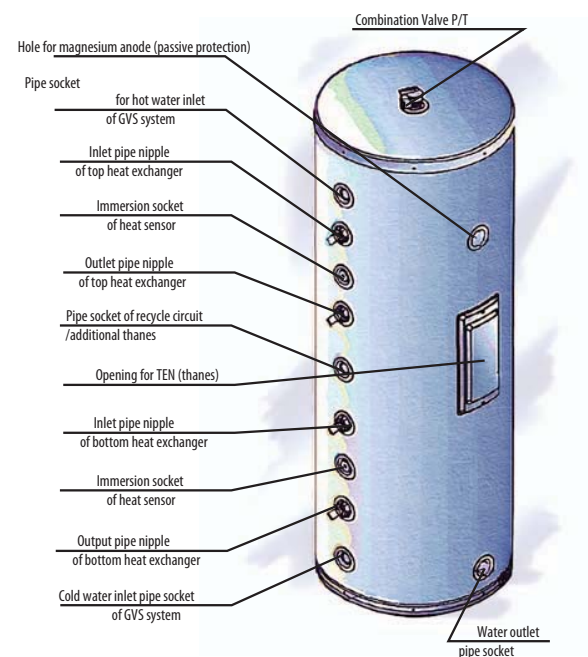
temperature gauge, water inlet valve, magnesium anode, extra heating element (TEN). The system has 3 variants of modification of external tank: with painted steel, with galvanised painted steel, with polished stainless steel. The modifications are available with 15, 20, 25, 30 and 35 pipes.

ATMOSFERA®INDIRECT HEATING BOILERS

Atmosfera Master Heat /Atmosfera Master Heat DUO

ATMOSFERA® boilers have a long durability, high efficiency, they are expenses saving and have a good price in comparison with other tanks. They have great popularity among the customers as for their universal construction: they are fitted with one or two heat exchangers. The lower heat exchanger is intended to be connected to solar system. The heat carrier warmed in the solar collector goes through the heat exchanger and gives its warmth to the

retail potable water. Circulating pump drives the heat carrier through the collector for its reheating. If the solar energy is not enough for sufficient tank heating, there is a possibility of additional heating through the second heat exchanger which is connected to any water boiler or electric boiler. The tanks can be of 100, 150, 200, 250, 300, 400, 500 litres capacity.



THE SPECIAL FEATURES OF CONSTRUCTION OF ATMOSFERA® BOILERS

- Possibility of recirculation circuit;
- Lower tubing coil is designed in such a way that enables to take efficiently heat even from the potentially low flow (that increases effectiveness of solar energy systems usability);
- The optimal geometry of tubing coil of heating line provides the most efficient, fast and comfortable mode of preparing and receiving the hot water;
- If there is a wish the tank of collector can be fitted with submersible sleeve with temperature and pressure valve.



SOLAR AND GEOTHERMAL WORKING STATIONS B.R.V.® (ITALY)

The pump groups B.R.V.® conform to all modern international standards, and in the best way meet the formula «price-efficiency-productivity». SPECIAL FEATURES: simple and fast connecting; low energy consumption but high efficiency; integrated electronic control; warranty 5 years; certificates UNI EN ISO 9001:2008, UKRSEPRO.

PUMP GROUPS FOR SOLAR SYSTEMS



One line pump groups

- the options with or without controller are available
- Hydraulic performance up to 38 l/min
- Circulating pumps with low energy consumption



Two lines pump groups

- Options with/without deaerator
- Hydraulic performance up to 70 L/min
- Circulating pumps of class «A»



Two lines pump groups with a controller

- Options with/without deaerator
- Heat meter
- External heat exchangers

PUMP GROUPS FOR HEAT SUPPLY SYSTEMS



Pump groups with electronic control

- Control of system heating circuit
- Mixed and not mixed circuits of hot water supply
- Cooling system
- Integrated control system



Mixed and not mixed circuits

- Three-way and four-way mixing valve, thermostat, constant temperature support
- Capacity up to 50 kW
- Spare parts



External Heat Exchangers

- Direct connection to pump groups
- Capacity up to 24 kW

PUMPING GROUPS FOR THERMAL PUMPS



Pump groups for ground circuit

- Availability of thermal or electronic control
- Capacity up to 50 kW



Collectors for heating systems:

- Collectors
- Hydraulic shock absorber
- Safety valves and systems



Pump groups for geothermal heating and heat pumps

- Individual customer system design
- Availability of ball-valve filters

HOT WATER PREPARATION STATIONS



- Fast preparation of hot water
- Capacity up to 100 kW
- Hydraulic performance up to 40 L/min
- Options with/without return circuit
- System electronic control
- Antibacterial defence
- Used for private houses, block of flats, hotels

ATMOSFERA®SOLAR WORK STATIONS



Solar work station with one circuit system
(flow control)



Solar work station with two circuit system
(control of flow and return flow)

Solar work station – is a complete set of fittings, valves, stop valves, temperature gauges, safety group 6 Bars, electronic device of flow, and includes two main elements of any solar energy water heating system: circulating pump and solar controller. All elements are fitted in compact and user friendly cases. It can be supplied in two variants: for one line and for two lines with a deaerator. Safety valves and stop valves protect the solar system from extra pressure and temperature. The fittings provide easy connection and installation of the system. Controller is intended for temperature control in solar collector, in heat exchanger tank and choosing the optimal working mode of the system during the day depending on the temperature levels.

CONTROLLER MAIN FUNCTIONS:

- temperature indication of solar collector;
- temperature indication in storage tank;
- temperature indication of return flow of heat carrier;
- control of temperature level of switching on the forced circulation of heat carrier;
- setting of the time of switching on and off of heating system;
- setting of the temperature and time of the additional heating;
- setting of the temperature of «anti-freezing»;
- sensors break down indication;
- switching off of the heat carrier circulation at collector extreme heating up.

PC 961/PC962

Controller has one scheme of solar system work.

PC 971/PC972

Controller has one scheme of solar system work, as well as additional functions of tank cooling and a heat energy counting.

PC 981/PC982

Controller has four schemes of solar system work, as well as additional functions: by-pass, recirculation, storage tanks priority.

CALEFFI SOLAR

COMPLETE PARTS FOR SOLAR SYSTEMS CALEFFI SOLAR® (ITALY)

Caleffi Solar® - is a line of professional products, specially designed for use in helio-systems. Today the products of Caleffi Solar® are as European industrial standard for ecosystems fitting. Caleffi Solar® line meets the highest European standards as for safety and is designed for work in high temperature conditions.



Multiple safety valve of temperature
and pressure for solar boilers
protection



Solarincal-T и Solarincal-T Plus automatic thermo
mixing units with integration
in GVS system



Conteca® Solar intellectual heat energy
meter with LCD screen



Variable three-way thermomixing valve with
replaceable cartridges, with heat injury
protection, with return valves and filters



Balancing valve with flow speed indicator



Ball valve made of stainless steel



Automatic air-
release valve



Discal® de-aerator



Discalair® high
efficient
automatic
air-release valve



Air-release safety
valve



Manual pump for
filling in the
solar system



Motorised three
way valve

TWO AND THREE WAY STOP VALVES (CHINA)



Two way valve HL-G2



Three way valve HL-G3

2-way and 3-way valves of series HL-G – are an inexpensive and reliable technical decision for systems with necessity of flow control due to their separation by stop mechanism with a returnable spring. They differ by the minimal sizes and weight, and also by qualitative regulating function and high tightness in the closed status.

TWO and THREE-WAY SPHERICAL VALVES (CHINA)



Two way valve BV-G2



Three way valve BV-G3

Hi-tech 2 and 3 way stop valves of series BV have a rotary spherical drive that provides not only differentiation of streams, but also tightness at pressure of 10 Bar. The developed design of internal details and high service life of the gasket meet all requirements of long-term operation without obligatory maintenance service.



MULTIPURPOSE FLEXIBLE PIPELINE MADE OF STAINLESS STEEL GOFRA FLEX® (SOUTH KOREA)

Multipurpose flexible pipeline made of stainless steel GOFRA FLEX® is an optimum high quality combination of multifunctional and the price. The price of Gofra Flex® pipe is not much higher, than the price of the pipeline made of qualitative metallic-plastic, and much lower than the price of the pipeline of copper. The basic advantages: durability, stability to hydro impacts; flexibility and durability; alloy polished steel is not exposed to corrosion; the pipe is not frost free during winter time; ecological compatibility; it does not demand supervision after fixing; by itself compensates linear expansions and compression; the pipeline is protected from rats, fungus and a moth; the pipeline is very easily to mount even in the constrained conditions; the product has the international certificate of quality ISO 9001, is certificated in Russia and Ukraine.

SCOPE OF USAGE OF GOFRA FLEX®

1. Systems of heating: a supply to radiators, replacement of radiators, a warm floor, warm walls;
2. Water pipe line;
3. The pipelines for electric and telecommunication networks (SNandP. A lining of wires and cables in steel pipes);
4. Pipelines for the petroleum products;
5. Flexible gas piping;
6. Mounting of solar systems;
7. Flexible piping for fire safety lines ;
8. Fixing and lining of engineering systems;
9. Ready piping for gas and water;
10. Air conditioning and ventilation;
11. Heat exchangers for hot/cold supply;
12. Manufacturing of decorative radiators and objects of an interior.

GOFRA FLEX® FOR FLARING



The complete set for making a flexible piping at-site of installation: corrosion-proof flexible lining, pipe cutter, roller, nuts, linings

Goffered pipe Gofra Flex® favourably differs by an opportunity to make quickly and easily lining of necessary sizes and diameters. The simplified device of connection is realised with the help of cap nut that considerably facilitates service of linings and connections. If it is necessary to serve connection, it is enough to use simple rubber, phthorplastic or paronite linings of the standard sizes and shapes With the help of the given pipe and complete sets of nuts it is possible to adjust batch production of high-quality and any sizes.

WIND POWER GENERATORS ATMOSFERA®, WIND ELECTRIC®, FORTIS®, VERANO.

Production is certificated, responds the European quality standards; a guarantee period to 5 years; term of operation not less than 15 years; installation, a guarantee service

VERTICAL WIND POWER GENERATORS



ATMOSFERA VAWT

It is vertical wind power unit with the inertial moment of rotation. It is one of the most efficient ones. It can work even if the wind is low. The system is easy to start and can reach the nominal capacity even with slow rotation of generator. It can be installed near the houses, on the roof of the house, or on the balcony console of block of flats.

Capacity, Wt: 10, 200, 300, 500, 1000, 3000, 5000, 10000



VERANO

It is made in Ukraine and has low noise level. It has the efficiency of wings very close to ideal (36,5%). The system is easy to start and reaching the optimal capacity even with slow rotation of generator.

The wind generator has very low noise level. There is no magnetic emission and vibration. It can be installed near the houses, on the roof of the house.

Capacity, Wt: 300, 500, 1000, 1500, 3000, 4000, 5000, 10000, 15000

HORIZONTAL WIND GENERATORS



ATMOSFERA AH

It is very effective, with low noise level, self directing unit. It works in standalone mode even with low wind speed. The wind generator has high efficiency and low noise level.

There are several ways of wind generator installation. It has long work durability period.

Capacity, Wt: 500, 1000, 1500, 2000, 3000, 5000, 10000.



FORTIS

The Holland manufacturer FORTIS is the world leader in development of high efficient turbines. Hundreds of units were installed around the world during the last 10 years. They have high fidelity and low noise level. They are widely used for private houses, supermarkets, coffee shops, restaurants, hotels, offices and work shops. The high capacity models FORTIS are used as mini electric power stations for commercial production of energy and its sale.

Capacity, Wt: 1000, 5000, 10000



WIND ELECTRIC

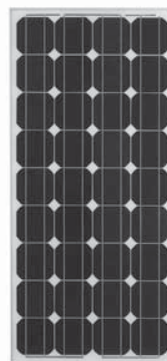
It is Ukraine made wind generator with high efficiency and low noise level, self directing system which can work in standalone mode at low wind speed. It has long work durability period. Due to simple construction it has very competitive price.

Capacity, Wt: 1500, 2000, 3000, 5000, 10000, 16000

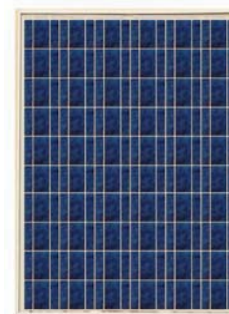
PHOTOVOLTAIC PANELS

In the market of photovoltaic systems ATMOSFERA® represents trade marks: KVAZAR (Ukraine), SIEMENS (Germany), SANYO (Japan), BID SOLAR (China), SUNRISE SOLARTECH (China), NESL SOLARTECH (China), SMA (Germany), XANTREX (USA).

Production is certificated, responds the European quality standards; a guarantee till 5 years; term of operation not less than 15 years; installation, guarantee, service.



Monocrystal panels



Polycrystalline panels



Panels of amorphous silicon

Photovoltaic panels on the basis of mono crystal silicon.

Cells are made of a mono crystal, integral crystal of silicon. Show efficiency of 13%-18 %. High efficiency. High terms of operation - till 25 years at preservation of project capacity till 10 years.

Photovoltaic panels on the basis of polycrystal silicon.

Cells are made of compressed crystals of silicon of the various forms. Efficiency of 10 % -16 %. They have more affordable price.

Photovoltaic panels on the basis of amorphous silicon.

For manufacturing such panels the technology of making a layer of silicon on any surface glass, plastic, polymeric film, etc. is used. Efficiency of 4 % to 9 %. They have a wide spectrum of application. There is an opportunity to create elements of a different degree of transparency and colour. They have good productivity even in conditions of low light exposure and little solar radiation, and also they have a low price in comparison with polycrystalline and mono crystal panels.

BATTERIES, CONTROLLERS, INVERTERS

for the wind-driver power stations and photovoltaic systems



UNATTENDED ACCUMULATORS SELCOM RITAR

The stationary lead-acid hermetically sealed unattended block storage batteries for wind generators and photovoltaic systems. They meet the requirements of standards IEC, JIS, BS, GOST, DSTU and GSTU, that is confirmed by international certificates. They have a service life from 10 up to 12 years in a mode of constant recharging.



UNATTENDED ACCUMULATORS SUNLIGHT

The stationary lead-acid hermetically sealed unattended storage batteries. Are made according to standards ICE 896-2, BS 6290-4, DIN 42534, UL. The product has certificate ISO-9001:2000. The product has high operational parameters and service life from 10 till 12 years in a mode constant recharging.

CONTROLLERS FOR WIND GENERATORS



ATMOSFERA VAWT

They are developed for a start - stop, the control and a charge of storage batteries from wind-driver power stations ATMOSFERA VAWT. The controller has the simple indication, convenient management, automatic system of stopping and starting of wind turbine.



ATMOSFERA AH

They are developed for a start - stop, the control and a charge of storage batteries from wind-driver power stations ATMOSFERA AH. They provide maximum serviceability and durability of all elements of system and protect it from overloads, short circuits and cases of wrong connection to storage batteries.



WIND ELECTRIC

They are developed for control of wind generators WIND ELECTRIC. They allow charging the storage batteries from a wind-driver power station and solar photo-electric station. They have the built-in programmed function of management by other external sources or loadings.

INVERTERS



ATMOSFERA®series P

They are developed for application in systems of reserve and independent power supply. They have a simple indication, convenient management, a signal system about a voltage reduction of the storage battery. They have a set of the important protective functions.



ATABA

The minor models of inverters ATABA are developed for maintenance of work of electronic units (technical equipment) with a voltage accumulator batteries. Models from 150 watt up to 320 watt are available. Industrial inverters ATABA are submitted by a wide range of devices with high efficiency and a low power consumption in a stand-by mode.



HYBRID UNIT XANTREX XW

The hybrid inverter / charging device of series XW is the device of new generation with the sine wave target voltage including a charging device for accumulators and the automatic switch of an alternating current. XW is capable to work both from external power line, and irrespective of it (with generators and sources of renewed energy) for maintenance of regular or reserve power supplies. The product establishes new standards for storage inverters / charging devices. The best functions available in the market, the newest development of Xantrex and components which simplify and accelerate installation of systems are incorporated into designs of the hybrid inverter / charging device XW.



WIND ELECTRIC

The inverters WE are integral part of any power complex which includes transformation of energy saved up in the accumulator in household electric energy of 220 or 380 Volts. All models of inverters are intended for work with the storage battery with rated voltage, 240VDC (200VDC-300VDC). They have the simple indication, convenient management, protective indication and an opportunity to operate the device from distance.

THERMAL PUMPS ATMOSFERA®

The thermal pump functions from the electric system by using the energy much more effective than any electric or other boilers which burn fuel. Value of efficiency (VOE) in thermal pumps in several times exceeds 100 % due to use of low potential heat of a ground, reservoir or air. For example, spending 1 kw of the electric power, you make 3-5 kw of heat. Thus, you receive 2-4 kw of heat free-of-charge from the environment.

THERMAL PUMPS ATMOSFERA® «AIR - WATER» (up to -5C) BWC-C 7 – 60



It is easy in installation and reliable air thermal pump. It is designed for effective all-the-year-round work in a temperate climate with average temperatures during the heating period not below -5°C. Capacities on air-conditioning from 7,5 up to 55.3 kw of capacity on heating from 8,9 up to 63,9 kw

Characteristics:

High-efficiency spiral (scroll) the compressor;
Frame made of aluminium alloy;
Silent fans;
External installation.
Optionally:
Built-in circulating pumps;
Copper ribs of external air heat exchanger;
Additional electroheater.

THERMAL PUMPS ATMOSFERA® «WATER / (GROUND) WATER» CDWC 31 - 968



The ground (water) thermal pumps of series CDWC are intended for use in systems of heating, air-conditioning and the general heat / cold supply. As a source of low potential heat for thermal pumps of this series serves warmth a ground, underground (waste) waters or an open reservoir.

The given series with its compact sizes has a wide power range.

Capacity for cooling from 9,8 to 323,2 kW
Capacity for heating from 10,6 to 332,8 kW

Characteristics:

- Low noise level;
- Anticorrosive panels of the case;
- Compact ergonomic design;
- Installation inside of a premise.

Optionally:

- Copper-nickel, titanic pipe, lamellar or coaxial heat exchanger;
- Special complete set for use of salty water as the heat-carrier;
- Additional electro-heater.

LOW TEMPERATURE THERMAL PUMPS ATMOSFERA® «AIR - WATER» (TO -20°C) FSLRDM 8 – 180



LOW TEMPERATURE series of thermal pumps ATMOSFERA® FSLRDM is intended for use in regions of average and northern longitudes where average temperatures fall in winter period below -10°C.

Air thermal pumps FSLRDM are executed as a mono block for external installation and have high efficiency and low noise level.

Capacities from 16 kW to 110 kW

Characteristics:

- High-efficiency spiral (scroll) the compressor with economizer;
- High SOR reaching size 2,3 at external temperature -15°C;
- Opportunity of work for heating at external temperature -20°C;
- Out of doors installation.

Optionally:

- Additional electroheater

FANCOILS - SYSTEMS OF AIR DISTRIBUTION OF THE HEAT AND THE COLD

The air type of heating nowadays is one of the most widespread in modern construction business. Due to fast distribution of heat or cold the given systems provide high comfort and maximum economy of heat. Fan-coils are successfully used in office, industrial buildings and premises. Possessing excellent heat exchange ability, fan-coils ideally fit for use in systems with thermal pumps, solar systems and other sources of low potential heat. For effective work of fan-coil it is enough to provide the heat-carrier 40 °-50°C. In summertime the system of fan-coils without additional upgrading can be used in a mode of active or passive air-conditioning.



Wall Fancoils WM

- Convenient wall fixing;
- Case is made of strong polymeric plastic ABS;
- Low noise level;
- Opportunity of connection of 2 or 3 way valve (220v);
- Polypropylene filter;
- 3 speed fan;
- Remote control;



Ceiling Fancoils YDHBC

- The basis of the case is made of sheet metal;
- Low noise level;
- Remote control;
- In the complete set there is a washable polypropylene filter;
- The fixed shutters and anti condenser with natural unloading.



Universal fancoils (ceiling-floor) FVU

- Universal execution of the case for ceiling or floor fixing;
- Basis of the case is made of sheet metal;
- Low noise level;
- 3 speed fan;
- Polypropylene filter.



Cassete 2 pipes fan-coils MCK

- Built in model. Harmoniously fits for systems with false ceilings;
- Low noise level;
- Optimum distribution of an air stream;
- Case made of galvanised sheet steel for natural unloading of condensate, with the pump for unloading;
- 3 speed fan;
- Remote control;
- 2 or 4 pipes system of submission of the heat-carrier.

SERVICES OF ATMOSFERA®



- Professional installation of solar systems, heat pumps, wind generators, systems of electric supply, heating and water supply;
- Maintenance of guarantee and post guarantee service of solar systems, thermal pumps, wind generators, traditional systems of heat supply;
- Carrying out of open seminars;
- Training of experts in the field of renewed energy sources;

- Development and implementation of investment projects for power supply on the basis of alternative sources;
- Work out of business-plans and TES (technical and economic substantiations) for manufacture of energy at objects with the help of alternative energy sources;
- Designing of systems of power supply;
- Carrying out of objects energy audit.

THE CATALOGUE OF SOME OBJECTS OF ATMOSFERA®



Kalush city, Ivano-Frankovsk region. Regional hospital



Pereyaslav-Khmelniitskiy, Kiev region. Skovoroda State Pedagogical University, a hostel №2



Khmelnik, Vinnitsa region. A kindergarten №7 «Camomile»



Petropavlovskaya Borshagovka, Kiev, Private house



Brovary city, Kiev region. A private house



Kiylov village, Borispol area, Kiev regio A private house



Carpathian mountains, mountain Megura of 1313 m, Mountain hotel "Ark"



Koktebel, AR Crimea, Mini-hotel



Semei, AR Crimea, Mini-hotel



Stormovoe, AR Crimea, An open pool



Kiev, Private office complex



Golovkivka, Cherkassk region, A private house

CERTIFICATES AND SANCTION PAPERS



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For specification of coordinates of the dealer in your region we ask to contact the regional representative office.

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