



# diexodos techniki

Address: 32 Kon. Kanaris Street, 121 31 Peristeri-Athens, [www.diexodos-techniki.gr](http://www.diexodos-techniki.gr)  
E mail: [info@diexodos-techniki.gr](mailto:info@diexodos-techniki.gr), Tel & Fax: (0030) 210 6813950

## The Company Diexodos Techniki...

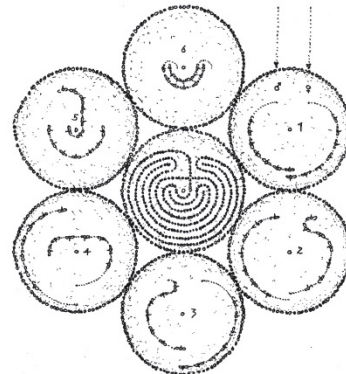
*Diexodos Techniki invests in, studying and designing systems and energy efficient technologies along with offering the most modern, complete and scientifically based services in the real estate sector.*



## Our logo with the ancient Labyrinth...

The company's logo depicts the Labyrinth in Greek Mythology that was a complex building structure at Knossos Palace. It was constructed by the engineer Daedalus on behalf of the legendary king of Crete, Minos. The term Labyrinth is often used to indicate a complex building with corridors that make it difficult or impossible for someone to exit and any similar provision of roads, porticos. From the "Labyrinth" of overregulation, with long and difficult processes, the oversupply of proposals and solutions regarding the properties that governs the market nowadays, from their construction to the sale, our Company gives you "Diexodos= (translation) Way out" meaning solutions, meaning facilities, meaning specialization.

### Knossos Labyrinth



### Knossos Palace



## **1. Real Estate & Evaluation Services**

The company was founded at 2007 and has now included in its activities the real estate sector and the estate appraisal for which it has received an international certification. With a network of cooperating brokerage firms, a portfolio with over 3,000 properties all over Greece and based in Athens and with a great network of dedicated partners with extensive experience in the management and promotion of the real estate, and an aim to mediate with responsibility and efficiency at:

- Buying, Selling, Housing Rental, Real Estate for Commercial Companies, Land and Touristic Properties
- Property consideration
- Legal and Notary Services
- Finding Properties for citizens from foreign countries
- Property Assessment
- Renovating Properties

The collaboration with the technical and real estate agency "Diexodos Techniki" is being outlined in context of full legal coverage and discretion.

With a continuous support of new technologies, our company is able to respond to the process and completion of real estate transactions of all sectors.



## **2. Additional Activities**

### **a. Energy Saving Solutions in Heating, Cooling, Sanitary Hot Water and Electricity Production**

The products and services we offer covering all the sophisticated and green products that are on the market giving you the opportunity to invest in reduced heating, cooling, sanitary hot water and electricity production costs and technologies more friendly to the environment. Our solutions include:



- Geothermal heating and cooling systems,
- Infrared heating systems,
- High efficiency air to water heat pump systems for heating, cooling and sanitary hot water production,
- Underfloor heating and cooling systems
- Conventional Air-conditioning Systems
- Solar heating, cooling and sanitary hot water production systems
- Cooling & Heating Energy saving systems through heat inflector devices
- Ion boilers Heating systems
- Solid fuels boilers & Energy fire places for heating
- Natural gas systems for heating & cooling.
- Biogas Power Plants
- Hydroelectric Plants
- Grid connected & off Grid Photovoltaic systems for Electricity Production
- Wind Turbines
- Led Lighting

#### a<sub>1</sub>. Geothermal heating and cooling systems

Turnkey solutions in high efficiency geothermal systems for heating and cooling. The geothermal system includes well studied, designed and constructed geothermal heat exchangers, vertical and horizontal type (with closed and opened hydraulic circuit) which in combination with the appropriate geothermal heat pump will ensure the lowest possible electricity consumption of the system.

*(Example of Geothermal Heating , Cooling and Sanitary Hot Water production in a Villa in Aigina Island – Greece) →*



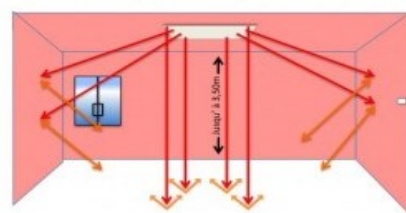
#### a<sub>2</sub>. Infrared SUNNYHEAT Heating Systems

Infrared Heating is an alternative, ecological way of heating.

**Diexodos Techniki** is the exclusive representative in Greece and Cyprus of **SUNNYHEAT** infrared panels, a 100% German product, unique globally supplied with electronic energy saving system.

The systems of **SUNNYHEAT** are predominantly used as the main heating system for residential or commercial properties, successfully replacing the central heating systems with a low operational cost.

**SUNNYHEAT Infrared Panel/ Principle of operation →**



### a3. High efficiency air to water heat pump systems

The heat pump uses the free air energy to yield heat, making it the ideal solution for residential and commercial heating. Reduce heating costs and CO2 emissions and benefit this way yourselves and the environment.

**Diexodos Techniki** provides integrated solutions and is a dealer of the most known heat pump brands, as DAIKIN, SWEGON-BLUE BOX, HITACHI, DIMPLEX, SAMSUNG, MITSUBISHI, TONON etc.

*(Heating & Cooling of Chateaux George Hotel in Gythio, with a Heat Pump / 120KW Capacity) →*



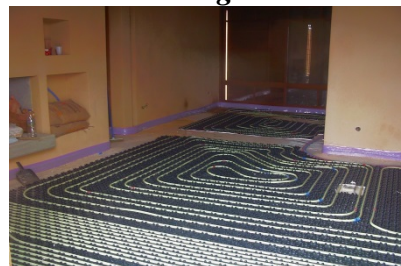
### a4. Underfloor Heating & Cooling Systems

The underfloor heating & cooling ensures you significant energy savings and even heat or cool distribution throughout your home, absolving the spaces from intensive radiators and air conditioning units.

Design, equipment supplying, installation and commissioning of underfloor heating & cooling systems consist one of **Diexodos Techniki** main activities with cooperation of well-known underfloor material brands as German OVENTROP and Italian TIEMME and FIV.



*Underfloor Heating in Villa with Studios in Aigina Island*



### a5. Conventional Air Conditioning Systems

**Diexodos Techniki** proposes modern air conditioning systems designed to meet all needs and create optimal environmental conditions with the minimum energy consumption. The multifaceted cooperation with the leading air conditioning companies of the sector (as DAIKIN, HITACHI, MITSUBISHI, TOSHIBA and others) allows us to offer solutions designed for specifically to meet your needs.



*Cooling & Heating with DAIKIN VRF System in luxury building (Filothei)*

The proper study of the space and the careful planning will ensure a comfortable environment, so to maintain the high quality of the air we breathe and reduce the cost of operating the air conditioning system.

We offer commercial solutions with VRF Systems, Air Handling Systems, Chillers and Heat Pumps and residential ones with Multi systems, Split units etc.



#### a6. Solar heating, cooling and sanitary hot water production systems

**Diexodos Techniki** provides energy saving solutions with Solar thermal systems which use the sun's free energy to produce heating and hot water without any tailpipe emissions.

They are easily installed and offer a reduction of up to 80% on heating costs.

In addition **Diexodos Techniki** provides solar cooling solutions through gas or hot water absorption chillers.



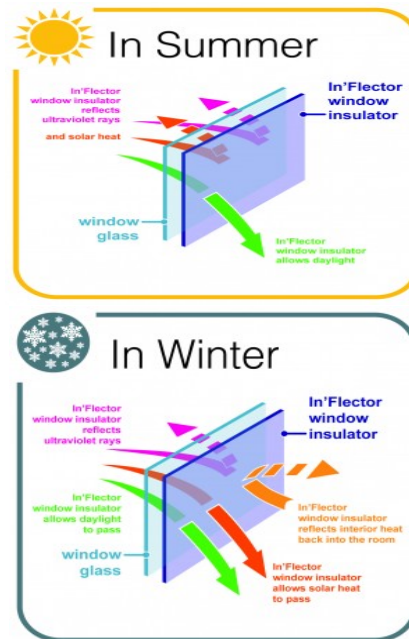
**Solar Heating & Cooling**



## a7. Heat Inflector Devices

The windows are the “weakest points” in controlling the temperature in a building. The windows inflectors retain the heat within the building during winter and repel the heat in the summer just with one product! Strips from special material designed by NASA, with an opening/closing/turning device.

**Diexodos Techniki** has given solutions with Heat Inflectors providing up to **40%** energy saving during both, winter and summer.



## a8. Ion Boilers Heating System

The ion boilers are an innovative product with a very high yield of almost 100% since the heating of water is not induced, as in other forms of heating but it is being done through electro-stimulation of water molecules.

**Diexodos Techniki** has been the official distributor for Greece for the pioneer and authentic Russian ion-boilers manufacturer, “**Beril**”.



## a9. Solid fuels boilers & Energy fire places for heating

Stoves and boilers for solid fuels (biomass) are suitable for burning “poor fuel” such as wood, coal, pellet and stone providing thus economy and good operation. The variety of combustion materials allows you to choose the cheapest material you may find in your region.



Warm up having the opportunity to save up in costs and efficiently with the new thermo fireplaces. Take advantage of the heat generated by the burning of wood with modern systems that dissipate heat throughout the room.



**Diexodos Techniki** provides integration solutions for heating with solid fuels and fire places.

#### a<sub>10</sub>. Natural gas systems for heating & cooling

Natural gas ((N.G.) considered as a “green” fuel with low CO emissions and could be used in N.G. heating boilers and gas fired absorption chillers, producing heating and cooling correspondently with lower fuel consumption than oil boilers and extremely low electricity consumption than electric chillers.

**Diexodos Techniki** has been the exclusive representative for Greece, of a British gas and oil burner manufacturer, **Dunphy Combustion Ltd**, one of the most important manufacturers worldwide.



*The factory*

**DUNPHY** Company is a pioneer in the design and manufacture of boilers using one or two different kinds of fuels and all the related digital control units. Its products offer high performance and pure burning of all heating applications or steam generation.

Series of monobloc burners with **axial fan** are designed for the usage with all liquid and gaseous fuels and are suitable for raw materials’ processing, water purification plants, etc.

**Axial fan** is a Dunphy worldwide patent which provides more efficiency and less noise of the burner.



**Gas Boosters**, is another Dunphy product which increase the gas pressure when it is not sufficient. Dunphy’s Gas Boosters provide maximum power at 75 mbars and maximum volume at 1400m<sup>3</sup>/hour. They are made out of cast iron and have little noise when operating.

**Diexodos Techniki** is an official cooperator of the Greek Gas Distribution Company in Athens, called “**Aerion Attikis**”

## Diexodos Techniki Project Supporting

### **Psyttalia Wastewater Treatment Plant**

- Boiler room for water heating includes:
  - 5 x Dual fuel (biogas & oil) **DUNPHY** burners **1,5 MW** each &
  - 5 x Biogas **DUNPHY** boosters



### **a<sub>11</sub>. Biomass Power Plants**

**Diexodos Techniki** provides turnkey solutions for producing power generation with biomass fuel.

Well experienced engineers for designing the power plants solution and cooperation with the biggest manufacturers of biomass equipment for electricity and heat production ensure succeed projects.



The power generation methods we use are biomass combustion combined with diathermic oil system or steam turbine system or gasification system.



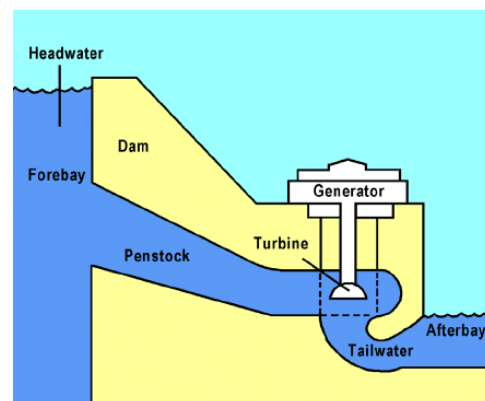
Finally another solution for power generation we provide is through biogas production from anaerobic procedure in digesters where sewage or garbage have been gathered.

### **a<sub>12</sub>. Υδροηλεκτρικοί Σταθμοί**

Η «διεξοδος τεχνικη» παρέχει ολοκληρωμένες λύσεις μελέτης σχεδιασμού και κατασκευής Υδροηλεκτρικών σταθμών.

Η υδροηλεκτρική ενέργεια είναι ο όρος που αναφέρεται σε ηλεκτρική ενέργεια που παράγεται μέσω της χρήσης της δύναμης της βαρύτητας, της πτώσης ή ροής υδάτων.

Το κόστος της υδροηλεκτρικής ενέργειας



είναι σχετικά χαμηλή, γεγονός που καθιστά ανταγωνιστική πηγή ανανεώσιμης ηλεκτρικής ενέργειας.

Είναι επίσης μια ευέλικτη πηγή ηλεκτρικής ενέργειας, δεδομένου ότι η ποσότητα που παράγεται από τον σταθμό ηλεκτροπαραγωγής μπορεί να αλλάξει προς τα πάνω ή προς τα κάτω πολύ γρήγορα προσαρμοζόμενη στις μεταβαλλόμενες απαιτήσεις σε ενέργεια.



### a<sub>13</sub>. Grid connected & off Grid Photovoltaic systems – Wind Turbines

**Diexodos Techniki** provides turnkey solutions for producing power generation through Photovoltaic Systems, off Grid in decentralized areas or Grid connected for selling electricity to the Public Power Corporation.

Alternatively, wind turbine small, medium or large range plants could be used for green electricity production.

Well experienced engineers for designing the power plants solution and well known PV and Wind turbine products, coming from cooperation with the bigger manufacturers worldwide, ensure succeed projects.



### a<sub>14</sub>. Led Lighting

In high power price generation, the eco-awareness of power saving is the future tendency and to decrease the waste of power is already an international common view. Illumination technology is striding forward to the stage of power saving and low pollution.

**Diexodos Techniki** offer completed illumination support, including lamps and lanterns, lamps and tubes, and special illumination request based on précised project study and design.



## b. Green Building Design & Construction

Constructing a green building reduces the energy required for heating, cooling, lighting and in general electricity demands, giving you a direct financial benefit. Partial or Integrated solutions in upgrading of conventional buildings to low energy consumption ones.

Residence, Commercial and Tertiary Sector Permits for construction have been included in our activities.

Green building design & construction is based on Dynamic systems (described above) and Passive systems (described below).

Our solutions & activities in building design & construction include:

- Bioclimatic Buildings
- Building Energy Upgrade
- External and Internal Insulation
- Shading Systems
- Energy Auditing
- Building Permits

### b<sub>1</sub>. Bioclimatic Buildings

The bioclimatic buildings incorporate technological innovations in order to reduce the energy consumption to a minimum. The proper study ensures the requirements for a modern bioclimatic building.

Passive Systems as, Orientation, Air Ventilation, Bioclimatic building materials, wall/roof/floor/pilotis insulation, green houses use etc. have been well studied by **Diexodos Techniki** engineer before the final construction in order to succeed the minimum energy demand of the building.



### b<sub>2</sub>. Energy Upgrade

Upgrading the energy of the building, you achieve great savings in heating and cooling costs.

**Diexodos Techniki** offers modern solutions at affordable prices, designed to meet the needs of each building.

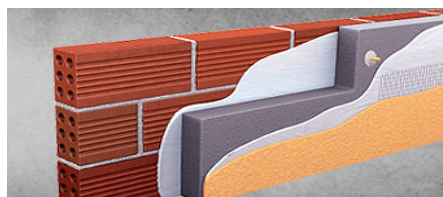
We could be involved in any stage of building renovation in order to improve its energy class.



### **b<sub>3</sub>. Insulation**

The enhanced thermal insulation, interior or exterior is the most basic and crucial point in the energy upgrade of a building.

With the implementation of integrated thermal insulation systems we save energy for large-scale heating and cooling.



### **b<sub>4</sub>. Shading Systems**

Shading systems may contribute greatly in energy savings.

In combination with appropriate automations they form a pleasant atmosphere at your premises throughout the year.



### **b<sub>5</sub>. Energy Auditing**

The energy auditing is related with the assessment of the energy consumption in a building, the factors that affect them and the methods for improving energy savings in this building.

Diexodos Techniki inspector engineers after the building inspection propose certain actions for energy improving of the building to a better energy class.

### **b<sub>6</sub>. Residence Permit**

You may confide us for your residence permit for constructions of small and large scale buildings and allow us the long procedures required for its approval.



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*You may contact us in order to find your dreams home in Greece,*

*The commercial building that suits your requirements,  
The investment you are seeking to make and to inquire  
about our energy products and services*

**Tel & Fax: (0030) 210 6813950,**

**Mob: (0030) 6948 244 211**

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**E mail: [info@diexodos-techniki.gr](mailto:info@diexodos-techniki.gr)**

**Owner and General Director: Mr Konstantinos Korniotakis**

**Public Relations and Communication Department: Mrs Stamatina Markou,**

**mob. (0030) 6932 900255, skype: stamatin12,**

**E mail: [stamatinamarkou@yahoo.gr](mailto:stamatinamarkou@yahoo.gr)**

