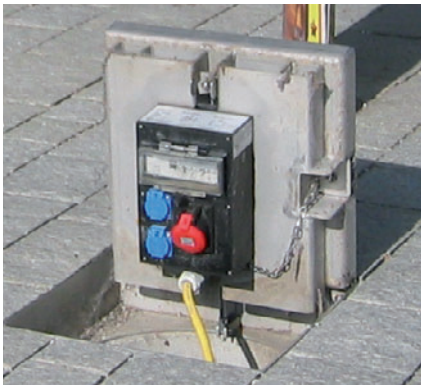
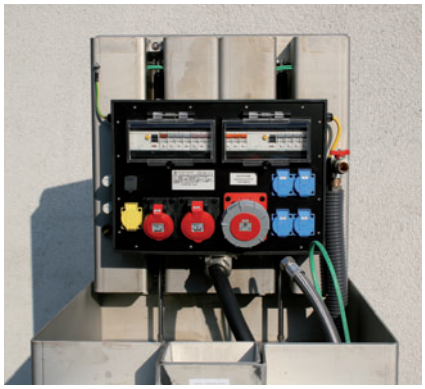
Subsurface Energy Systems
The Piazza Line



Piazza 540



Piazza 700

Piazza 1000

The GIFAS-subsurface energy models PIAZZA are solid stainless steel constructions in different sizes. These energy systems can be equipped with various fittings:

- Schuko- and CEE-sockets (with fusings)
- industrial Ethernet connectors (RJ45, USB)
- various special sockets
- fresh water connectors (with heating band for safe winter operation)
- compressed air connectors
- waste water connectors

The GIFAS-all-rubber boxes will be equipped with fittings as per the client's specification and according to the technical requirements and rules.

The cover tray can be filled individually in order to meet the environment's requirements (cobble stones, bitumen, tiles, etc.).

Gas pressurised springs support the opening of the cover. A self-adjusting heating band is installed in the cover so that easy opening is guaranteed even under freezing conditions.

PIAZZA 700 and PIAZZA 1000 are also suitable as access to manholes.

The GIFAS-subsurface systems provide safe energy supply on squares, such as weekly markets, Christmas markets, events, etc., in industry or entertainment buildings, pedestrian areas, parks, and so on.

Instructions for use

- Upon start up the lid will be opened and the required connections will be plugged in.
- During draining electricity or water the cover will be closed again and the cables or hoses will be led outside via a cable exit
- The PIAZZA will only be opened again to disconnect the supply. The cable exit will be closed again by a push part.
- At the PIAZZA 700 and 1000 the push part can be filled in individually like the cover.

Advantages

- By closing the system after start up the energy system will be lowered in the ground. Therefore there are no obstacles on the surface.
- The system is passable for pedestrians or cars also during operation (rating up to 400 kN).
- Optimum safety for all road users as well as protection against unauthorized access.

Possible solutions – Piazza 700
Energy supply system or waste water shaft

Piazza 700 – Waste water shaft and energy supply system

Piazza 700 as waste water shaft

Project "Neuer Platz" Klagenfurt

13 pcs PIAZZA 700 for electric energy and fresh water supply
2 pcs PIAZZA 1000 for electric energy and fresh water supply
9 pcs PIAZZA 700 special version for waste water shaft

For the waste water version a heating for siphon and cover was built in so that the shaft will also be protected against freezing at temperatures below 0°C.

Details of some possible fittings

Fresh water connection with freeze protection by heating band

Compressed air connection

Detailed information upon request or on our home page: **www.gifas.at**

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GIFAS-ELECTRIC

Subsurface Energy Systems
Model PICCOLINO 200 and model VESUVIO

PICCOLINO 200

- Solid stainless steel construction 200 x 200 mm
- rating up to 250 kN
- cover made of slip-resistant checker plate
- hinges support the easy opening of the cover.

Possible fittings

1 Schuko-coupling 16A 230V (IP68) or
1 CEE-coupling 5x16A 400 V (IP67) or
1 CEE-coupling 5x32A 400V (IP67)

Especially suitable for power supply for Christmas illumination.

Instructions for use

- Upon start up the lid will be opened and the required connections will be plugged in.
- During draining electricity the cover will be closed again and the cable will be led outside via a cable exit
- The cover will only be opened again for disconnecting. After use it will be closed again.

Advantages

- By closing the system after start up there will be no obstacle on the surface.
- The system is passable for pedestrians or cars also during operation (rating up to 250 kN).
- Optimum safety for all road users as well as protection against unauthorized access.

VESUVIO

- Solid cast iron construction
- standard circular cover (diameter 600 mm)
- rating up to 400 kN
- hinges and gas pressurised springs support the easy opening of the cover.

Possible fittings

- Schuko- and CEE-sockets (with fusings)
- industrial Ethernet connectors (RJ45, USB)
- fresh water connectors (with heating band against freezing for safe winter operation)
- compressed air connectors
- waste water connectors

The GIFAS all-rubber boxes will be equipped with fittings according to the clients' specifications and the technical possibilities and rules.

The GIFAS subsurface systems enable safe energy supply on squares, such as weekly markets, Christmas markets, pedestrian areas, parks, and so on.

Instructions for use

- For start up the lid will be opened and the required connections will be plugged in.
- During draining electricity and water the cover will be closed again and the cables and hoses will be led outside via a cable exit.
- The cover will only be opened again for disconnecting. After use it will be closed again by means of a push part.

Advantages

- By closing the system after start up the energy system will be lowered in the ground. Therefore there will be no obstacle on the surface.
- The system is passable for pedestrians or car also during operation (rating up to 400 kN).
- Optimum safety for all road users as well as protection against unauthorized access.

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GIFAS-ELECTRIC

Pollard Energy Systems
RONDO


Rondo 150


Rondo 200


Rondo 300


Possible solution: Rondo 300 removable

- Energy pollard for stationary mounting in 3 different sizes: diameter: 150 mm, 200 mm or 300 mm
- V2A stainless steel construction powder coated. Available in all standard RAL-colours or with iron mica coating.

- Special colours upon request
- door to be locked with cylinder lock
- Power and/or water supply integrated in pollard
- junction box of vulcanized self-extinguishing Butyl-rubber
- individual fittings as per clients' specification, technical requirements and rules
- fuses covered by shockproof Makrolon
- **power supply when the door is closed** via cable exit opening below the door
- high operational safety and protection against unauthorized access and vandalism.

This construction offers a variable use of the power supply pollard.

Case study
In the planning stage a market square is to be equipped with 20 built-in subsurface parts and 8 pollards. Now the pollards can be placed according to the actual requirement and purpose.

Advantages
- Cost saving, as only 8 pollards must be purchased for 20 supply spots, as they can be placed wherever they are needed.
- The pollards can be removed when they are not required any longer and can be stored at another location.
- By using pollards it is not necessary to lay many meters of exposed cables or hoses, thus avoiding many safety hazards.

Detailed information upon request or on our home page: **www.gifas.at**

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GIFAS-ELECTRIC

Aluminium Power Supply Columns
GAS 100, GAS 160

Aluminium column GAS 100

The “small” energy column can contain all standard switch and socket systems. The different possibilities of drill holes and drilling templates offer high flexibility for the application of single or multiple socket and switch frames. For water cleaned ceramic or tile floors we offer the version IP 54.
The pleasant design is appreciated mainly in offices. Moreover, data and telephone systems can be integrated.

Pleasant and functional design
Mere functionality is not the most important asset today – the design of electro technical equipment is appreciated more and more, especially in office buildings, work shops and production plants, e.g. in automobile industry or engineering plants.
High impact resistance, low weight and high flexibility in usage are further assets.

High grade Aluminium =
weather- and impact resistant and corrosion proof

Powder coating in all available RAL colours on request.

Protection categories
- for outdoor use: IP 54 (with corresponding fittings)
- for indoor use: IP 20

Aluminium column GAS 160

The GAS 160 is a multifunctional and particularly solid construction. Fittings can be installed on all four sides of the column, e.g. 230 V or 400 V CEE-sockets in connection with switches and socket combinations, fuses and control units. A top guiding light is also available.
The GAS 160 is the ideal solution for production plants and workshops. Of special interest is the possibility to connect compressed air, **low voltage supply systems as well as data processing modules, controlling and signal devices and CEE-add-on sockets up to 32A etc.**

Application
- gateways, garden and park areas
- banks and office buildings
- medical practices (surgeries)
- administration buildings
- entrance halls and foyers
- residential areas, conservatories
- industrial plants
- swimming pools
- railway stations, airports, etc.

Detailed information upon request or on our home page: **www.gifas.at**

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