

Underground cabinets



Applications

- Temporary connection at markets, fairs and events
- Low voltage distribution
- Glass fibre connections
- IT applications
- Mobile telephone networks
- Sewer installations
- kWh meter enclosures
- Telephone network Repeater Access Modules

Outdoor locations

- Market places
- City squares
- Harbours
- Railway stations
- Sports stadia and arenas
- Airports
- Shopping centres

Indoor locations

- Factories
- Storage facilities
- Maintenance areas
- Sports halls
- Event halls
- Congress halls
- Shopping malls

Aesthetical solution

- No obstacle at street level
- Fully integrated solutions
- The cover can integrate paving materials
- Extra public space

Safety

- Cover closed during use
- Due to Diving bell system (Boyle's law) the enclosure can be used without any problem immediately after a flood (tested by 1m water during 48 h)
- The user does not have to access electrical equipment
- User compartment is separated from electricity supplier compartment (Market & Fair types)
- Cover load tested by COPRO according to EN 124-3 (12.5 tons)
- Electrically tested according to EN/IEC 61439-2
- Complies to RoHS-guidelines (EU directive)
- Steel reinforced concrete base. Cover in stainless steel AISI 304

No damage due to flood

Due to the diving bell system (Boyle's law) the cabinet can be used without any problem immediately after a flood (tested by 1 m water during 48 h, and proven reliable).

Standards

EN/IEC 61439-2

EN 124-3



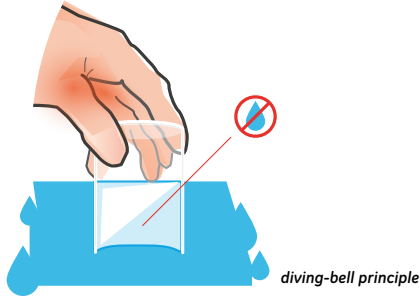
Dimensional drawings ● Page 1.45
 Specifications for tender documents ● Page 1.65

Prevents any water-ingress

The diving-bell principle

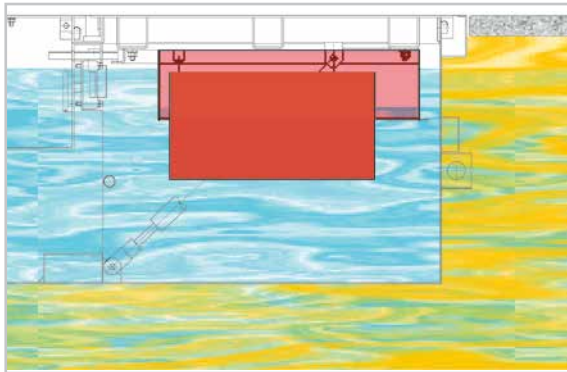
The principle of the Diving-Bell is the working mechanism of the underground cabinet.

A Diving-Bell is a five wall, hermetically sealed space. The opening is at the bottom side under normal conditions. In case the water rises, the bottom side will be closed by the water. With the further raise of the water, the air enclosed in the Diving-Bell will be compressed and builds a balance with the water pressure. The water level inside the Diving-Bell stagnates because of this counter pressure (Boyle's law).



Even in case that the underground cabinet will be flooded completely, for example during a flood or heavy rain, the air bubble remains and the electrical components installed inside a polyester enclosure stay dry. The underground cabinets are made out of stainless steel with a foundation of concrete.

The cover is made out of double-layered stainless steel (equivalent to EN1.4662) in order to fulfill the requirements of the cover load laid down in EN 124-3.



Type Stadium



Characteristics

Common compartment for users and supplier.
Cover standard provided with tread-plate, optionally the cover is available suitable for pavement.

Technical features

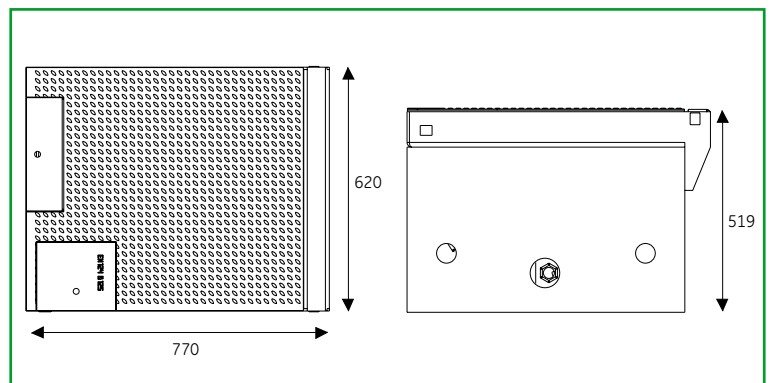
Maximum voltage	400/230V a.c.
Maximum incoming rating	63A
Maximum outgoing rating	32A
Frequency	50Hz
Maximum outgoing functions	10
Operating temperature	-25°C to +40°C
Level of immersion	1 m above groundlevel
Cover load	12.5 tons
Maximum angle of cover opening	80°
Dimensions (HxWxL)	519x620x770 mm
Weight (kg)	275

Basic compositions

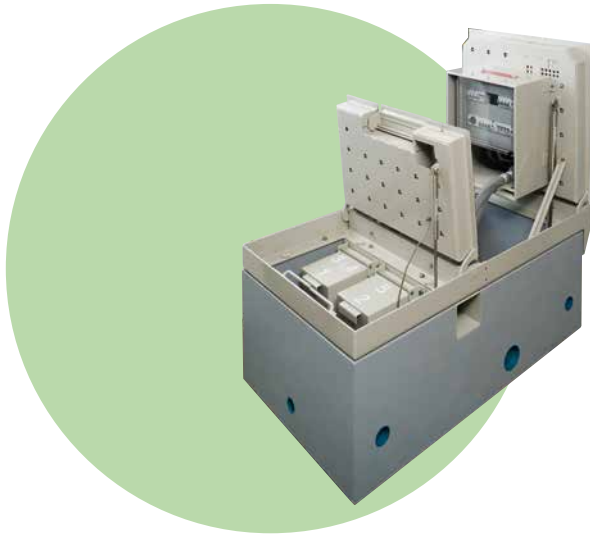
	32A/5P	16A/5P	16A/3P	Main breaker	Ref. No.
Stadion 1	1	-	6	1	424415
Stadion 2	-	1	6	1	424416
Stadion 3	2	-	5	1	424417
Stadion 4	-	2	5	1	424418
Stadion 5	1	1	5	1	424419
Stadion 6	3	-	2	1	424420
Stadion 7	1	2	2	1	424421
Stadion 8	2	1	2	1	424422

Version for permanent connections available on request

Dimensional drawing



Type Fair



Characteristics

Separated compartments for users and supplier.
Cover standard provided with tread-plate, optionally the cover is available suitable for pavement.

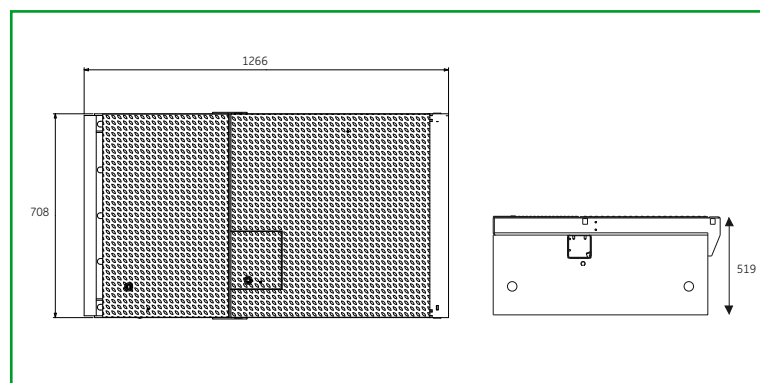
Technical features

Maximum voltage	400/230V a.c.
Maximum incoming rating	63A
Maximum outgoing rating	32A
Frequency	50Hz
Maximum outgoing functions	8
Operating temperature	-25°C to +40°C
Level of immersion	1 m above groundlevel
Cover load	12.5 tons
Maximum angle of cover opening	80°
Dimensions (HxWxL)	519 (569)x708x1230 mm
Weight (kg)	350

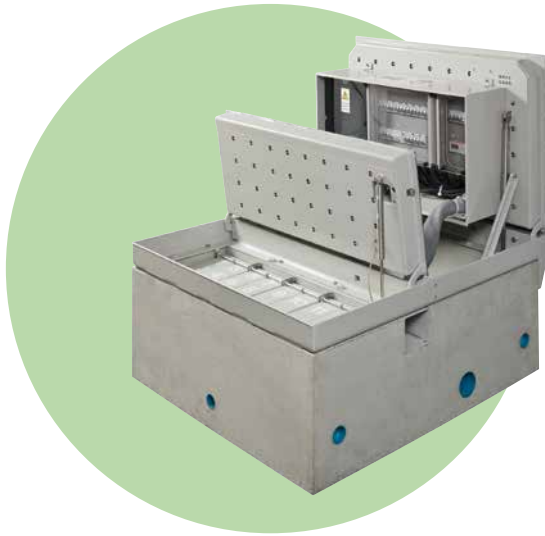
Basic compositions

	32A/5P	16A/5P	16A/3P	Main breaker	Ref. No.
Fair 1	2	-	5	1	424423
Fair 2	-	2	5	1	424424
Fair 3	1	1	5	1	424425
Fair 4	3	-	2	1	424426
Fair 5	2	1	2	1	424427
Fair 6	1	-	7	1	424428
Fair 7	-	1	7	1	424429
Fair 8	-	-	8	1	424430

Dimensional drawing



Type Market



Characteristics

Separated compartments for users and supplier.
Cover standard provided with tread-plate, optionally the cover is available suitable for pavement.

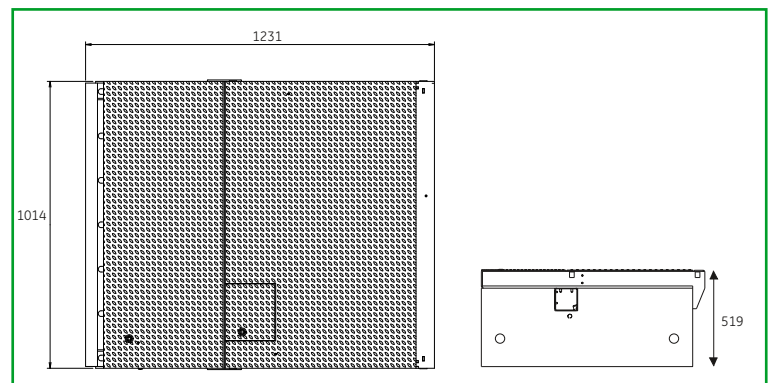
Technical features

Maximum voltage	400/230V a.c.
Maximum incoming rating	63A
Maximum outgoing rating	32A
Frequency	50Hz
Maximum outgoing functions	16
Operating temperature	-25°C to +40°C
Level of immersion	1 m above groundlevel
Cover load	12.5 tons
Maximum angle of cover opening	80°
Dimensions (HxWxL)	519 (569)x 1014x 1195 mm
Weight (kg)	400

Basic compositions

	32A/5P	16A/5P	16A/3P	Main breaker	Ref. No.
Market 1	3	-	7	1	424431
Market 2	2	-	10	1	424432
Market 3	1	-	11	1	424433
Market 4	2	1	7	1	424434
Market 5	1	2	7	1	424435
Market 6	-	1	11	1	424436
Market 7	1	1	10	1	424437
Market 8	-	2	10	1	424438

Dimensional drawing



Type Event



Characteristics

Common compartment for users and supplier.
 Designed for higher rates.
 Cover standard provided with tread-plate, optionally the cover is available suitable for pavement.

Technical features

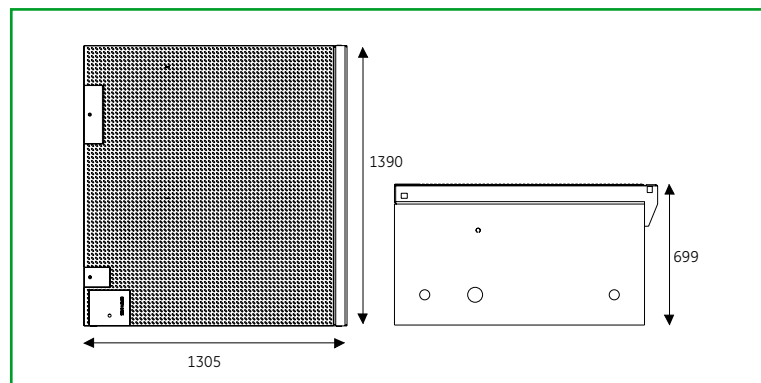
Maximum voltage	400/230V a.c.
Maximum incoming rating	32/125A
Maximum outgoing rating	125A
Frequency	50Hz
Maximum outgoing functions	12/2
Operating temperature	-25°C to +40°C
Level of immersion	1 m above groundlevel
Cover load	12.5 tons
Maximum angle of cover opening	80°
Dimensions (H x W x L)	699 (749) x 1390 x 1305 mm

Basic compositions

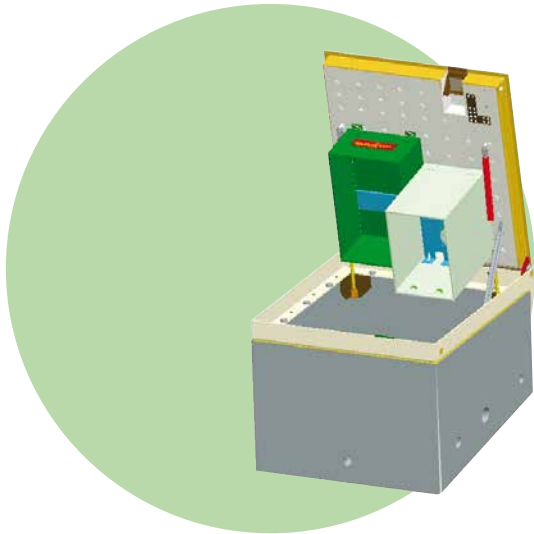
	32A/5P	16A/5P	16A/3P	63A/5P	125A/5P	Main breaker	kWh ⁽¹⁾	Ref. No.
Event 1	-	4	6	2	-	1	1	424447
Event 2	1	4	6	1	-	1	1	424448
Event 3	-	4	6	-	1	1	1	424449
Event 4	2	2	6	2	-	1	1	424450
Event 5	2	2	6	1	-	1	1	424451
Event 6	2	-	6	-	1	1	1	424452

(1) Only for outgoing functions 16/32A

Dimensional drawing



Type Festival



Characteristics

Common compartment for users and supplier.
 Designed for higher rates.
 Cover standard provided with tread-plate, optionally the cover is available suitable for pavement.

Technical features

Maximum voltage	400/230V a.c.
Maximum incoming rating	160A
Maximum outgoing rating	125A
Frequency	50Hz
Maximum outgoing functions	2
Operating temperature	-25°C to +40°C
Level of immersion	1 m above groundlevel
Cover load	12.5 tons
Maximum angle of cover opening	80°
Dimensions (H x W x L)	699 (749) x 872 x 1010 mm

Basic compositions

	63A/5P	125A/5P	Main breaker	kWh	Ref. No.
Festival 1	2	-	1	-	424453
Festival 3	-	1	1	-	424455

Version for permanent connections available on request

Dimensional drawing

