


68 Q-MC RANGE POWER AND SERVICES DISTRIBUTION TERMINALS

The 68 Q-MC range is the innovative power and services distribution system for environments such as tourist harbours, campsites and public spaces (trade fairs, markets etc.), combining maximum reliability technical performance and an attractive design for shape and geometries. The 68 Q-MC range offers maximum mechanical resistance and lasting total reliability with respect to atmospheric and chemical agents thanks to an unpainted technopolymer coating, 650° self-extinguishing capacity according to the Glow Wire Test (EN 50298) and the use of stainless steel for all the metal parts. All terminal versions are equipped with cable rails in order to avoid accidental tugging of the cable.

The various versions of Q-MC supply terminals conform to the EN 60439-1 Standard and therefore each terminal, whether already wired or to be assembled following the Prearranged Construction System rules, is certified as AS, Standard Equipment. The system's extreme modularity is a very important feature, as it allows the execution of possible modifications or variations of the various implementations while keeping design, safety and functionality features unaltered.

TECHNICAL DATA AND COMPLIANCE WITH STANDARDS

Board type	Reference Standards:	Protection rating (IP)	Protection Indirect contacts	Impact resistance at ambient temperature	Resistance to abnormal heat and fire:	
				(code IK)	Thermo-pressure with ball (°C)	Glow Wire Test (°C)
Empty terminals Assembled and wired terminals (AS)	EN 50298 CEI 17-87	IP 56		IK 10	70	650
	EN 60439-1 CEI 17-13/1 - IEC 17-13/1	IP 44 / IP 55/56 (depending on sockets)		IK 10 (enclosure) IK 09 (installed components)		850 (active parts) 650 (passive parts)

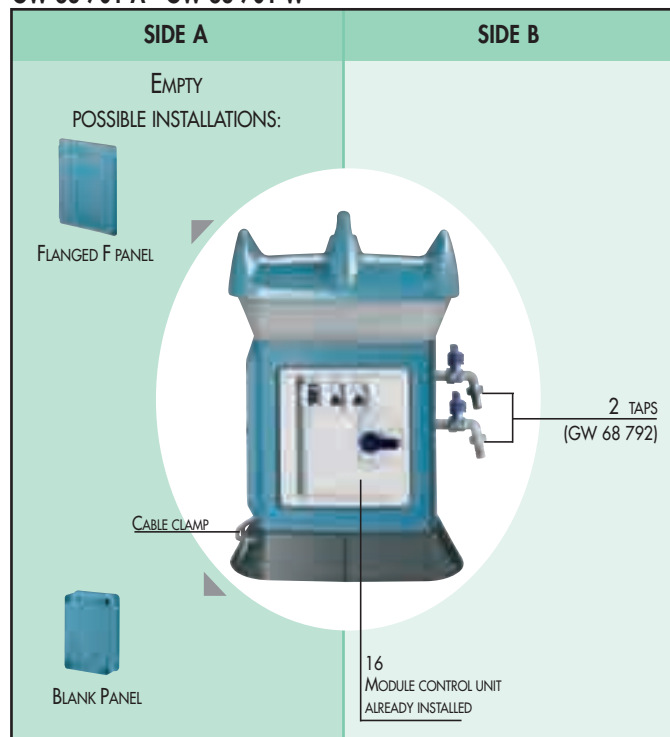
BEHAVIOUR WITH ATMOSPHERIC AND CHEMICAL AGENTS

Agent	Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
		Concentrated	Diluted	Concentrated	Diluted	Esane	Benzol	Acetone	Alcohol		
Resistance	Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Resistant	Limited resistance	Resistant

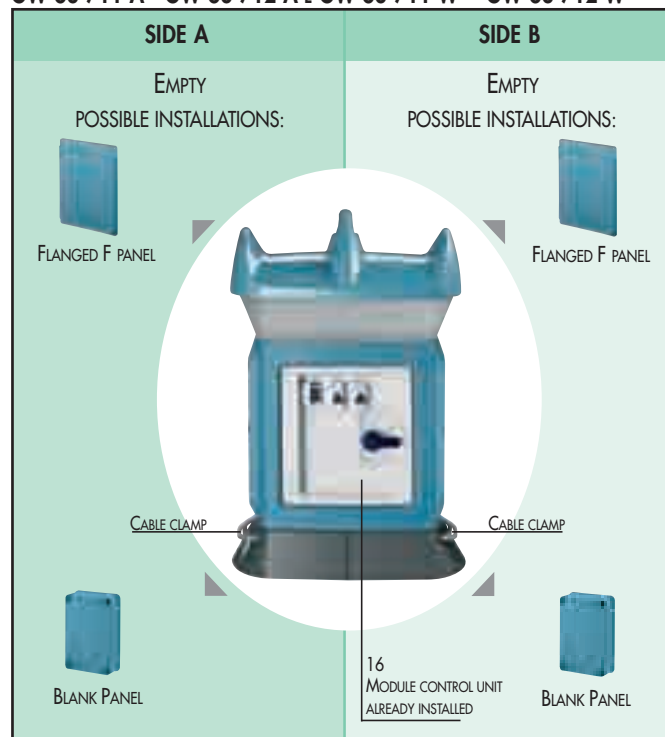
COMPACT DISTRIBUTION TERMINALS

PANEL MODULARITY

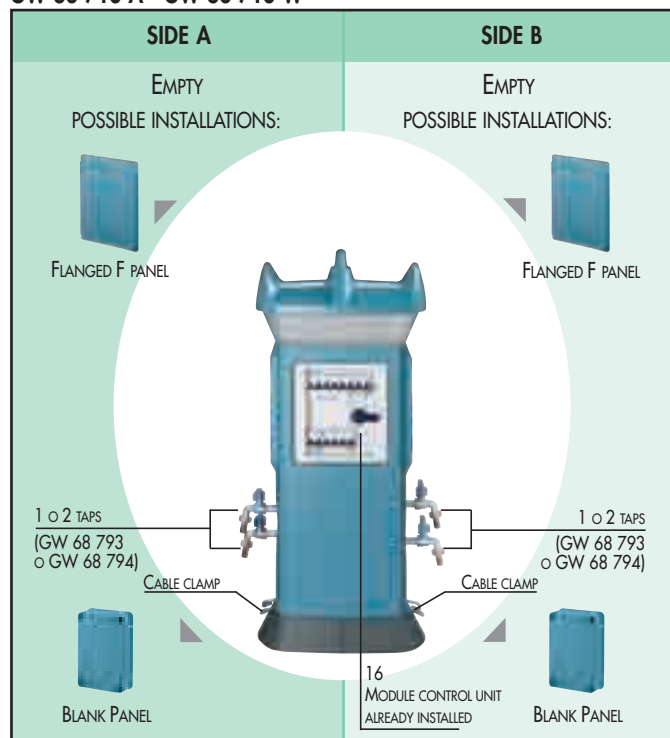
Q-MC 16 B COMPACT TERMINALS WITH SINGLE- SIDED TAKE-OFF
GW 68 701 A - GW 68 701 W



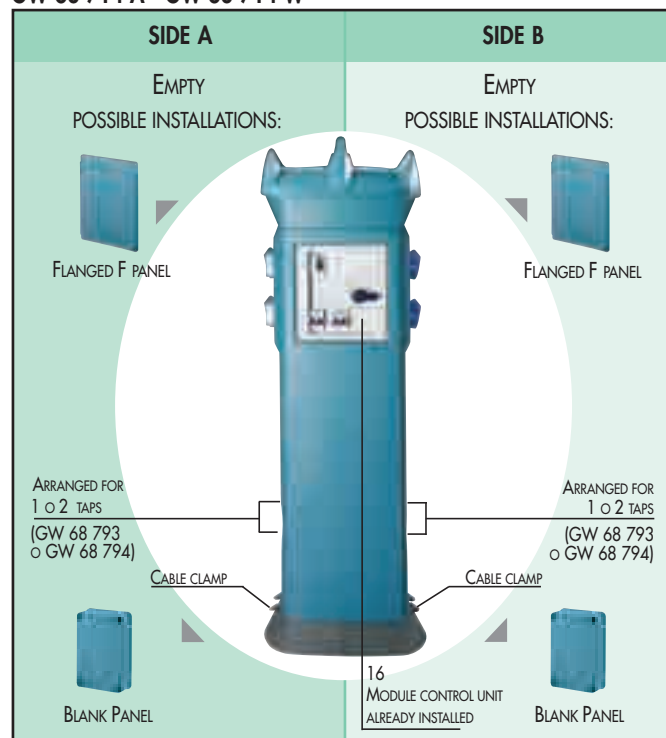
Q-MC 16 B AND Q-MC 16 T COMPACT TERMINALS WITH DOUBLE-SIDED TAKE-OFF
GW 68 711 A - GW 68 712 A E GW 68 711 W - GW 68 712 W



Q-MC 63 B COMPACT TERMINAL WITH DOUBLE-SIDED TAKE-OFF
GW 68 713 A - GW 68 713 W



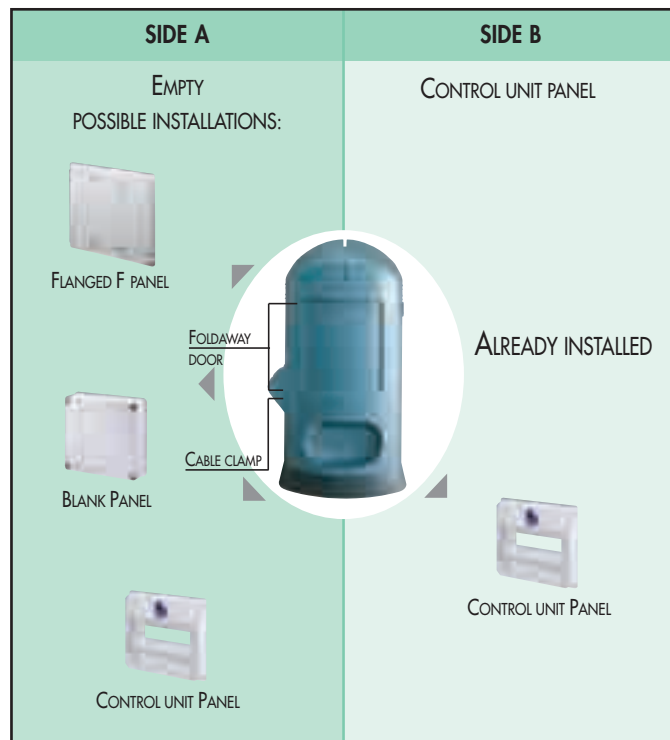
QM-C 63 C COMPACT TERMINAL WITH DOUBLE- SIDED TAKE-OFF
GW 68 714 A - GW 68 714 W



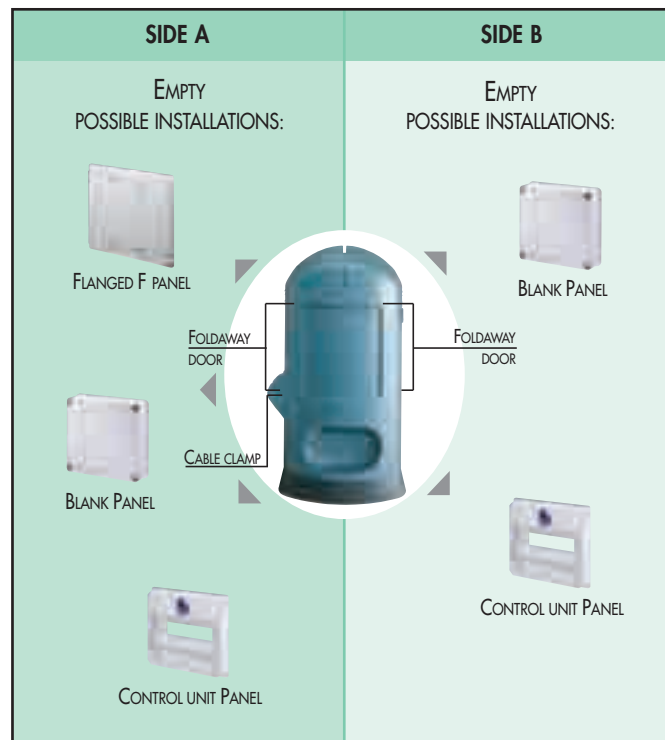
STANDARD AND HIGH CAPACITY DISTRIBUTION TERMINALS

PANEL MODULARITY

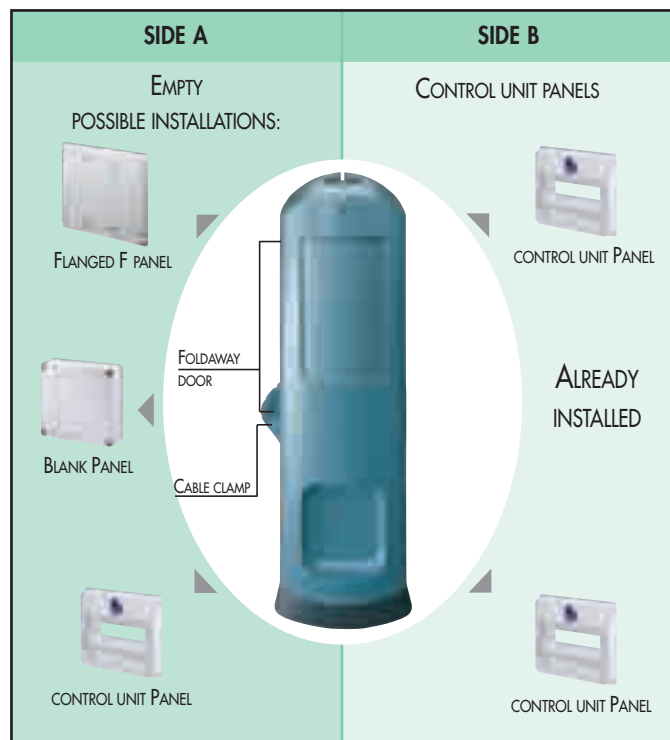
Q-MC 125 B STANDARD TERMINAL WITH SINGLE-SIDED TAKE-OFF
GW 68 705 A - GW 68 705 W



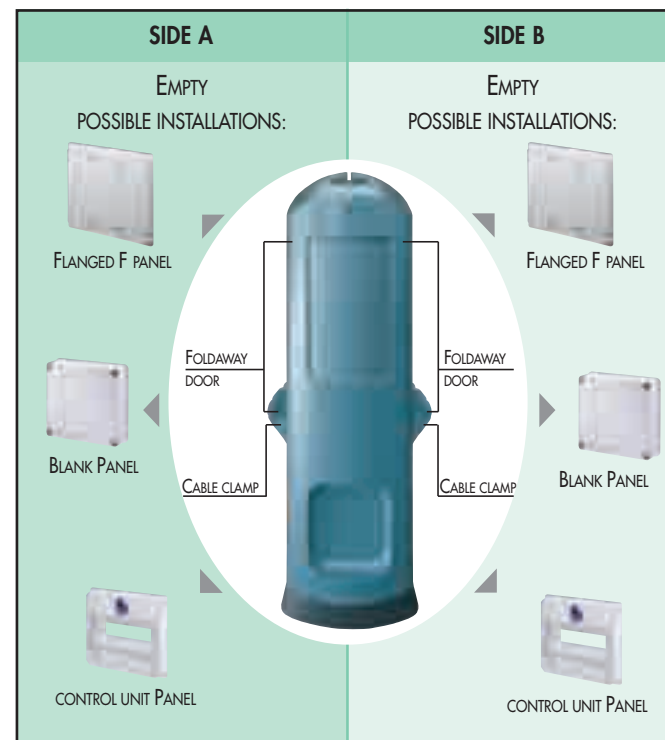
Q-MC 125 B STANDARD TERMINAL WITH SINGLE-SIDED TAKE-OFF
GW 68 715 A - GW 68 715 W



Q-MC 200 B HIGH CAPACITY TERMINAL WITH SINGLE-SIDED TAKE-OFF
GW 68 707 A - GW 68 707 W



Q-MC 200 B HIGH CAPACITY TERMINAL WITH DOUBLE-SIDED TAKE-OFF
GW 68 717 A - GW 68 717 W





COMPATIBILITY DOOR CLOSED/PLUG INSERTED

SINGLE-SIDED TERMINALS WITH ONE BLANK DOOR

Unwired versions: GW 68 705 A - GW 68 707 A - GW 68 705 W - GW 68 707 W



Wired versions GW 68 801 A - GW 68 802 A - GW 68 803 A - GW 68 804 A - GW 68 861 A - GW 68 862 A - GW 68 863 A - GW 68 864 A
GW 68 865 A - GW 68 866 A
GW 68 801 W - GW 68 802 W - GW 68 803 W - GW 68 804 W - GW 68 861 W - GW 68 862 W - GW 68 863 W - GW 68 864 W
GW 68 865 W - GW 68 866 W

Side A blank door	Side B exposed control unit	Socket panel code	Socket type	Closing door
		GW 68 731 W	66 IB - Vertical sockets 16/32A	YES
		GW 68 732 W	66 IB - Horizontal sockets 16/32A	YES
		GW 68 733 W	66 COMBIBLOC - Compact sockets 16/32A	YES
		GW 68 734 W	IEC 309 - Flush-mounting sockets 16/32A	YES
		GW 68 735 W	66 IB - Vertical sockets 63A	NO
		GW 68 736 W	IEC 309 - Flush-mounting sockets 125A	NO

SINGLE-SIDED AND DOUBLE-SIDED TERMINALS EQUIPPED WITH 2 BLANK DOORS

Unwired versions: GW 68 715 A - GW 68 717 A - GW 68 715 W - GW 68 717 W

Wired versions GW 68 831 A - GW 68 832 A - GW 68 833 A - GW 68 834 A - GW 68 835 A - GW 68 836 A - GW 68 837 A
GW 68 831 W - GW 68 832 W - GW 68 833 W - GW 68 834 W - GW 68 835 W - GW 68 836 W - GW 68 837 W

Side A blank door	Side B blank door	Socket panel code	Socket type	Closing door
		GW 68 731 W	66 IB - Vertical sockets 16/32A	NO
		GW 68 732 W	66 IB - Horizontal sockets 16/32A	NO
		GW 68 733 W	66 COMBIBLOC - Compact sockets 16/32A	NO
		GW 68 734 W	IEC 309 - Flush-mounting sockets 16/32A	NO
		GW 68 735 W	66 IB - Vertical sockets 63A	NO
		GW 68 736 W	IEC 309 - Flush-mounting sockets 125A	NO

DISTRIBUTION TERMINALS WITH ELECTRONIC MANAGEMENT

PREPAID AND CENTRALISED SYSTEM CHARACTERISTICS

The prepaid system is made up by the following components:

- 68 Q-MC terminals;
- console for programming transponder keys;
- PC with dedicated software to program transponder keys.

In order to achieve the centralised management system it is necessary to connect the terminals to the PC with a serial data cable. The PC must be equipped with the special electronic card with the specific software for centralised management, available as a single Kit in the catalogue (GW 68 773). From a PC, installed for example in the facility reception area (port or campsite), it is possible to monitor and control the terminals. Specifically, the main functions are:

- Status of power sockets: open/closed, protection device triggered, instantaneous consumption (kW) and total consumption (kWh).
- Status of water outlets: open/closed, instantaneous consumption (m³/s) and total consumption (m³).
- Permission by central PC to use the outlets (power and/or water); Connection or disconnection of users to supply water and energy must always be carried out with the transponder key.

It is also possible to send messages or notices to the users. Messages are input in the PC by the operator and are shown to the user on the terminal display.

PREPAID AND CENTRALISED SYSTEM - TERMINAL COMPONENTS

Electronic devices on the terminals are made up of the following components:

- Monitoring and control unit (electronic card on board distribution pillar);
- LCD display of 2 lines x 16 characters (character size 5x10 mm);
- Reading area for transponder key;
- Contactors for power socket disconnection;
- Solenoid valves for enabling water users.

PREPAID AND CENTRALISED SYSTEM - TERMINAL TECHNICAL DATA

Supply voltage	230V ac 50hz
Power absorbed without load	10va
Ambient operating temperature (°)	-20..+65°C
Ambient storage temperature	-30..+80°C
Max. humidity	98% (non-condensing)
Protection rating:	IP 55

[(')] The control unit can operate at higher working temperatures because the internal temperature is always higher than the external temperature]

EXAMPLE OF OPERATION

The operations the user must carry out in order to activate an outlet are:

- 1 - bring the transponder key near the reading area;
- 2 - select the outlet and type of service required (only energy/ only water / both):
Each selection occurs by leaving the transponder key positioned near the reading area; the selectable items are displayed in a sequence; selection of an item is done by removing the key from the reading area when the item is displayed; a "beep" will confirm selection.

The display shows:

- the outlet activated and the services supplied;
- the available credit (only with prepaid system).

To deactivate the outlet put the key back near the reading zone and remove it again after a few seconds;

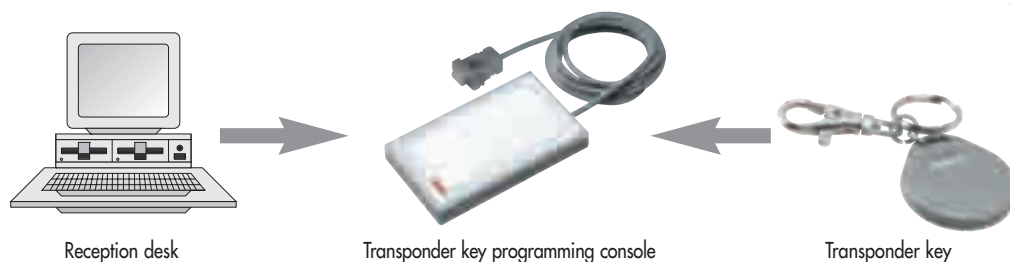
a "beep" will confirm the operation.

CENTRALISED SYSTEM TECHNICAL DATA

- Maximum number of terminals: 800;
- Communication between PC and terminals: standard Modbus/RS485;
- Connection cable between PC and terminals: shielded, 2 braided pairs (see SAT for detailed electrical characteristics).

PREPAID ELECTRONIC MANAGEMENT - "STAND-ALONE " OPERATING SYSTEM

TERMINALS ARE INDEPENDENT OF CENTRAL PC (LOCATED IN THE RECEPTION AREA).



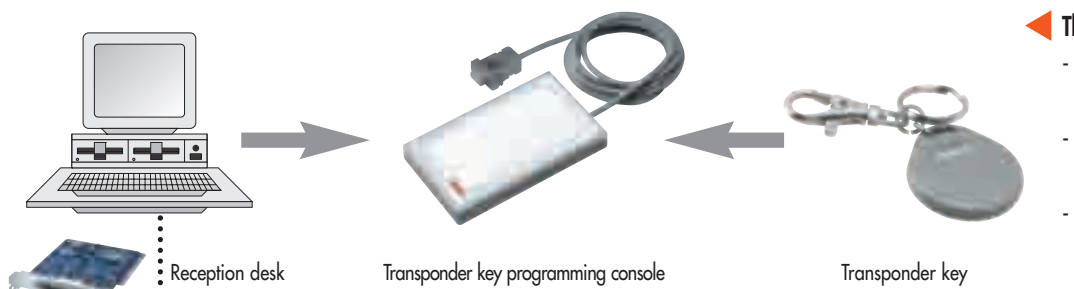
▶ The system allows:

- local enabling/disabling of energy and water supply;
- calculation of energy and water consumption for each user with relevant decrease of credit.



CENTRALISED ELECTRONIC MANAGEMENT - REMOTE MONITORING OPERATIONS

TERMINALS ARE CONNECTED TO CENTRAL PC BY BUS DATA.



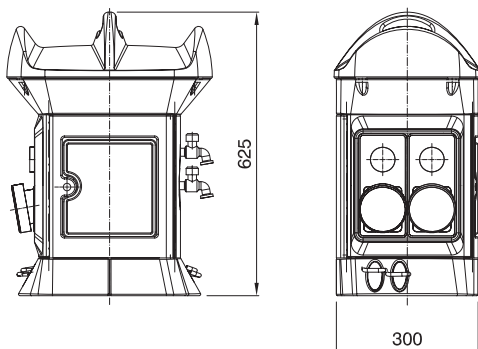
▶ The system allows:

- remote consent for power and water distribution;
- remote calculation of power and water consumption;
- supervision of operation status of each terminal.

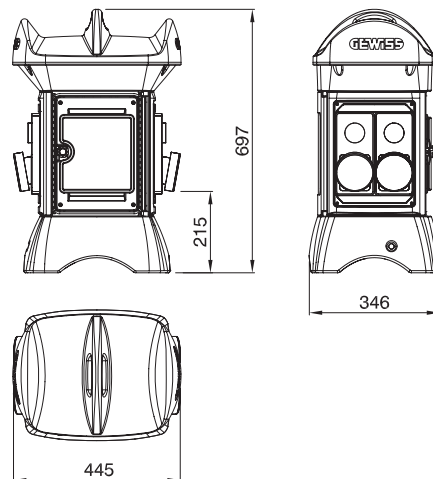


DIMENSION TABLES

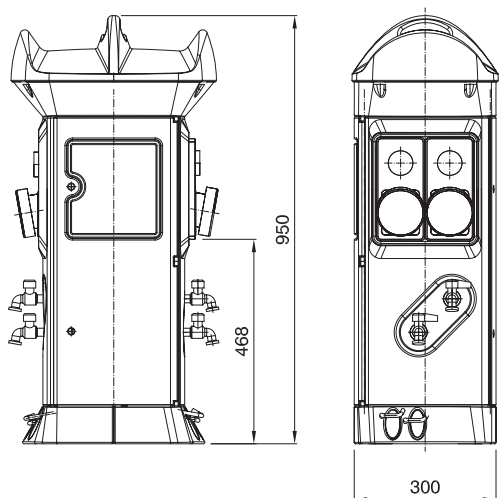
Q-MC 16 B COMPACT TERMINALS - 1 MODULE



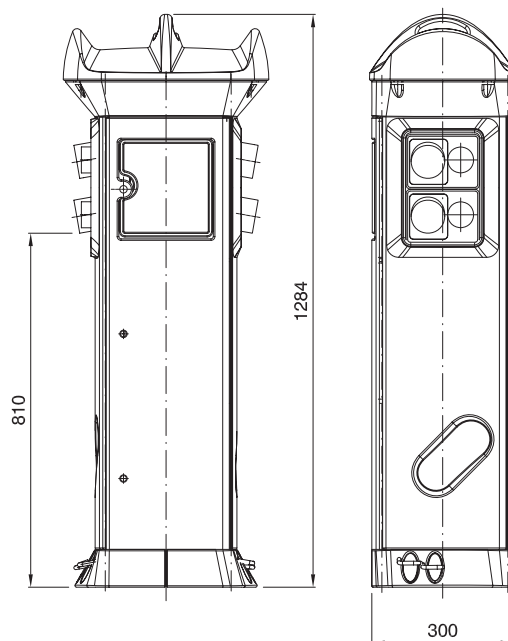
Q-MC 16 T COMPACT TERMINALS - 1 MODULE



Q-MC 63 B COMPACT TERMINALS - 2 MODULES



Q-MC 63 B COMPACT TERMINALS - 3 MODULES



FIXING BASE WITH CENTRE DISTANCES

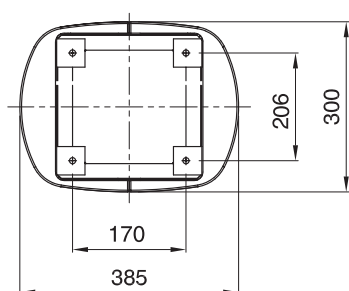
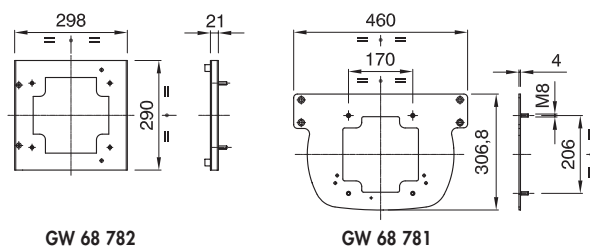


PLATE FOR PIERS



68 Q-MC RANGE

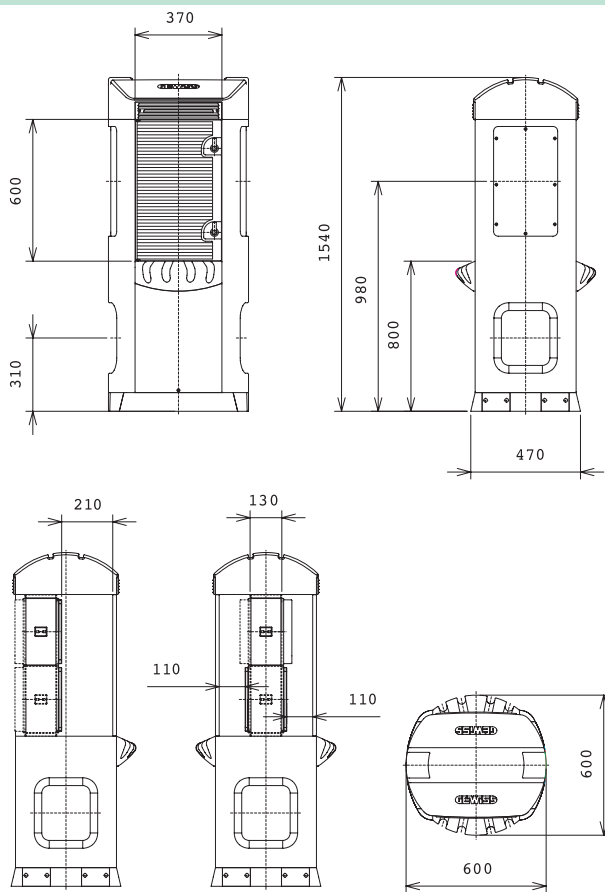
ENERGY AND SERVICES DISTRIBUTION TERMINAL SYSTEM

GEWISS

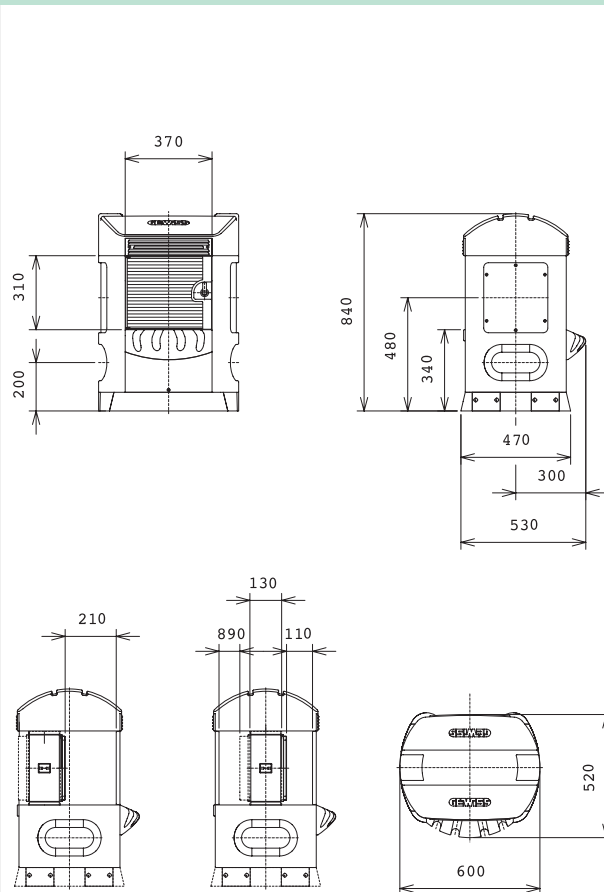
TECHNICAL CHARACTERISTICS

68 Q-MC RANGE

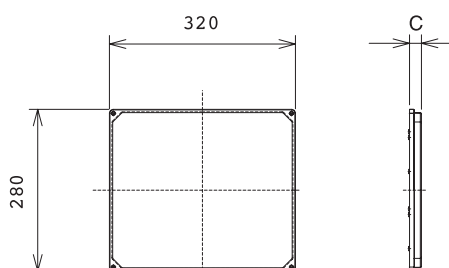
Q-MC 200 B HIGH CAPACITY TERMINALS



Q-MC 125 B STANDARD TERMINALS

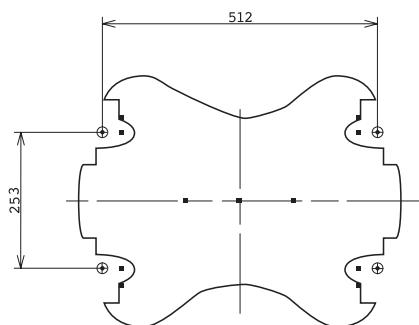


PANELS



PANEL CODE	DIMENSION C (MM)
GW 68 731 W	21
GW 68 732 W	
GW 68 733 W	
GW 68 734 W	
GW 68 735 W	110
GW 68 736 W	
GW 68 737 A	43
GW 68 737 W	
GW 68 741 A	
GW 68 741 W	

FIXING BASE WITH CENTRE DISTANCES



FIXING PLATE FOR CONCRETE

