

ACTIVE APPARATUS CABINETS

Cannon Technologies S143800 cabinet has been designed to house sensitive electronic equipment for use in communications, transportation and rail infrastructure projects including SISS, CIS, CCTV, communications, Networking etc.

The cabinet is configured with fully locking doors to both front and rear faces allowing for access from both sides of the electrical equipment being integrated. The construction of the cabinet consists of a dual skinned, thermally insulated chamber for maximum protection against the effects of both solar gain and long wave radiation.

Cooled using “Forced Fan Ventilation” and giving a Δt (delta t) of between +5°C and +7°C depending on the surrounding ambient air temperature. This is achieved by using two radial blowers, each fitted with finger guards for operator protection during periodic servicing requirements. Fans are positioned within the hinged roof void giving an N+1 solution. The roof is also supported in the open position by a bonnet type stay bar.

The “Forced Fan Ventilated” system works by drawing fresh ambient air into the cabinet through replaceable filters incorporated within the doors which also have in-built bug screens. The filters have a large dust holding capacity so cleaning/replacement can be accommodated within the normal equipment maintenance routines.

The fans are powered via an independent 48-volt DC power supply, and is controlled by the Environmental Monitoring and Control system, a programmable up-to 6 fan controller card. This can also be monitored via an optional Cannon Guard system which is housed in a 19” rack mounted 1-U chassis providing alarm output over IP via SNMP (Cannon Guard 405E-N3SP-2A), details of the unit are available upon request.

The Environmental Monitoring and Control system controls the fan speed measured against internal temperature and provides a OPEX cost saving by reducing the fans speed & therefore power usage during low temperature conditions. It also provides alarm contacts required, typically, temperature out of limits, door open, fan failure etc.

Internally mounted within the thermal chamber and positioned to the underside of the internal roof panel is a low power AC LED strip light, this is switched on during the door being opened.

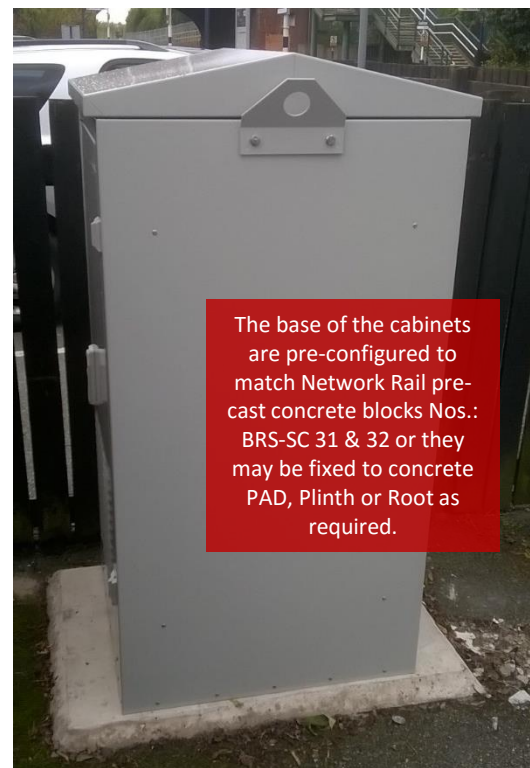
Cannon also provide integration of a small 6-way consumer unit complete with a double pole 63-amp RCCB incomer and 6-off 20-amp single pole MCB's all mounted on a 5-U high mounting bracket which also carried a 13-amp dual RCB socket for use during customer configuration and site testing/set-up.



Configured with fully locking doors to both front and rear faces allowing for access from both sides of the electrical equipment being integrated.



Fans are powered via an independent 48-volt DC power supply, and is controlled by the Environmental Monitoring and Control system, a programmable up-to 6 fan controller card.



The base of the cabinets are pre-configured to match Network Rail pre-cast concrete blocks Nos.: BRS-SC 31 & 32 or they may be fixed to concrete PAD, Plinth or Root as required.



An independent 48-volt DC power supply and Environmental Monitoring and Control system control the fan(s) speed to match exacting requirements against programmable temperature points.



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The Active Apparatus Cabinet, is rated at IP55 (design can be uprated to IP65) and is available in two sizes: full width 1064mm and half width 650mm.

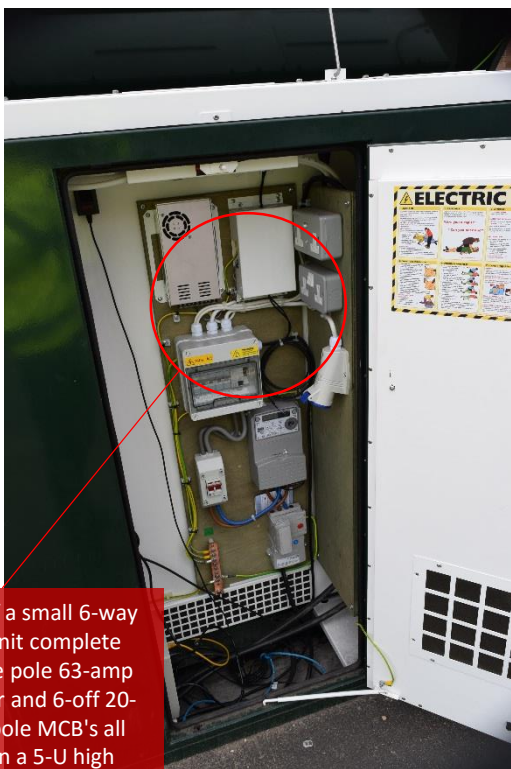
The larger (full width) cabinet has a pair of full height lockable doors front and rear whereas the smaller (half width) version has a single full height lockable door front and rear.

Locking is achieved by fitting a customer supplied padlock or lock barrel to the heavy duty lever swing handle located on the door.

The cabinet interior is ventilated by active roof fan forced air convection, with air being drawn through high capacity air filters in the front and rear doors.

The base includes gland plate arrangements for customer cable I/O and can be punched to suit customer's specific requirements.

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Integration of a small 6-way consumer unit complete with a double pole 63-amp RCCB incomer and 6-off 20-amp single pole MCB's all mounted on a 5-U high mounting bracket .



A heater provides protection during start-up, cold temperatures and against humidity



Environmental Monitoring and Control system control the fan(s) speed to match exacting requirements against programmable temperature points.



A 13-amp dual RCB socket for use during customer configuration and site testing/set-up

PRODUCT FEATURES

- Manufactured from 3mm thick Z600 Galvanised steel
- Treated with a state-of-the-art eco-friendly 90 micron thick powder paint process which provides significant maintenance savings during the expected 30-year life span.
- Based on the design principles of our Apparatus/Location case range which carries network rail certificate numbers PA05/674, PA05/01919, PA05/01975 and link-up certificate number 73595.
- Fully designed in accordance with BRS-SM 431 and 440.
- Adjustable 19" panels mounting included for signalling, SISS, CIS or other equipment, other mounting options are available for both full and half widths.



BENEFITS

- Low maintenance options reducing service costs
- Proven design protecting key network infrastructure
- Can be modified to suit customer specific sizes or manufactured from other materials i.e. Stainless Steel
- Optional monitoring and control system providing remoted alarm and door access.

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