FS MEDICOL™

The **FS MEDICOL** Patient Care Services Column has evolved from a market requirement for a stylish adaptable vertical trunking system for open plan areas. The concepts and desires of architects, consulting engineers and contractors have been taken into account in the development of this product as have the peculiarities of installation and maintenance in healthcare buildings.

Where the building structure does not permit the use of a horizontal bedhead unit, i.e. where windows obstruct, the **FS MEDICOL** offers a vertical solution that can be simply fed from the false ceiling. Like our horizontal trunking, it accommodates all patient care services for mains power, nurse call, entertainment, medical gases and lighting, by providing up to five individually screened compartments for the respective services with more available if necessary. It can be fully customised and is available finished in a range of more than 360 standard colours, and can also accommodate Patient Power TV services equipment.

THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2005

Made in Great Britain

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Multiple Applications

The **FS MEDICOL** Patient Care Services Column has evolved from a market requirement for a stylish and adaptable vertical trunking system. The concepts and desires of architects, consulting engineers and contractors have been taken into account in the development of this product as have the peculiarities of installation and maintenance in healthcare buildings.

Where the building structure does not permit a horizontal bedhead unit, i.e. where windows obstruct or multiple structural columns are evident, the **FS MEDICOL** offers a vertical solution that can be simply fed from the false ceiling.

The **FS MEDICOL** accommodates all patient care services for mains power, nurse call, entertainment, medical gases, Patient Power and bedhead lighting by providing five individually screened and segregated compartments for the respective services.

Standard Units

We offer a standard **FS MEDICOL**, although the facility exists for the units to be customised and manufactured to meet specific requirements. Our standard **FS MEDICOL** will suit numerous applications in both new and existing healthcare buildings.

The standard overall size of 3000mm high x 500mm wide x 206mm deep reflects our desire to ensure that the column remains unobtrusive when installed, whilst offering the capacity to meet the needs of one or two bed positions. Where an extended range of services is required a broader **FS MEDICOL** with a width of 742mm is available.

Co-ordinated Décor

The central fascia panels and side pods can be varied in colour according to the eventual room décor selected. The variety of colours and finishes are encouraged on this system to enhance the overall room appeal and make a feature out of this product, thus creating a focal point. All surfaces of the **FS MEDICOL** are smooth and easy to clean, with no fixing screws evident on any of the visible fascias thus ensuring a high quality appearance. We have selected a mix of hard wearing components which will withstand the daily rigours of a ward environment whilst maintaining a fashionable appearance throughout time.

Services Provision

Services outlets are mounted on accessory plates. These can be supplied powder coated either to match the pods or in a contrasting colour. Alternatively the side pods are available with an anodised aluminium finish

Where appropriate, the accessory plates are engraved with the respective legends and/or text to ensure that the user can clearly identify the function of the equipment, all generally in accordance with HTM 2015.

Plate fixings are concealed by a bespoke light grey polymer infill strip, thus complying with the requirements of HTM 08-03 whilst allowing easy maintenance of the system. Each plate has an earthing point fitted as standard. Services can be fitted to both the front and the rear of **FS MEDICOL**.

Lighting

The **FS MEDICOL** has been designed to provide bedhead reading/observation or examination lighting via one or more adjustable arm-type lamps, which are fitted

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to the front of the column by a special bedlight bracket. We can supply these lamps from a variety of manufacturers or alternatively they can easily be site-fitted by the installing contractor.

All fixings are hidden from view, ensuring an easy to clean and aesthetically pleasing finish.

Where a complete ward lighting solution is required, the **FS MEDICOL** can be integrated with our ***ward*LIGHT** uplighter or ***combi*LIGHT** up and downlighter systems.

Nurse Call

The nurse call panel accommodates all extra low voltage items including nurse call, data, voice and entertainment. Cabling access is via the side pods and its arrangement is fully co-ordinated with the respective nurse call manufacturer for locating studs for the respective nurse call PCB grid plate. **CABLEFLOW** medical trunking has been designed specifically to accommodate all commercially available nurse call products. As an independent trunking manufacturer with **no allegiance to any specific nurse call supplier**, we leave the choice of nurse call manufacturer up to you, the user and specifier.

The trunking plates are supplied free issue from us to the nurse call manufacturer, pre-punched, coated and engraved for them to assemble their components onto and test in-house. This in itself ensures compatibility between the two manufacturers, whilst ensuring that the product quality and performance is maintained. The plates are then returned to us for inclusion into the final build.

Medical Gas Services

As with the nurse call provision, our medical trunking systems are capable of accommodating all types of medical gas terminal units to EN 737, each hospital or installer having a preference for a particular type. Terminal units are located onto a terminal (type) specific mounting grid, which allows vertical and horizontal adjustment for precise alignment. This grid is in turn mounted onto a base plate, which is fixed directly into position within the base structure. A pipeline bracket and clips are supplied as standard for directing and securing the pipework once they enter the **FS MEDICOL**.

We are able to pre-gas the **FS MEDICOL** within our factory for speed of site installation and all gas sets are supplied with 15mm pipework as standard, although larger sizes can be accommodated. All Terminal Unit sets are suitably purged and pressure tested in accordance to HTM 02-01 and supplied with the appropriate test certificate.

The number of different terminal units available to be fitted varies depending on the exact product selected, but can be any variation of up to six terminal units on a standard **FS MEDICOL** from the full range of medicinal gases as defined within HTM 02-01. The broad **FS MEDICOL** has a substantially greater gas capability.

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Mains Power

Electrical sockets from the UK, the rest of Europe, the US and other continents can all be accommodated including switched or unswitched socket outlets for standard or non-standard configurations. These can also be colour co-ordinated subject to the respective manufacturer's product range and quantity required. The design of **CABLEFLOW** medical trunking ensures that no screw fixings are visible on the trunking lid and this applies to all flush mounted outlets, thus complying fully with the requirement of HTM 08-03.

The power plate also provides the mounting for the light control and any relays etc, can simply be located into the base unit behind. Relays and diodes are supplied as part of the nurse call system components by the respective manufacturer.

EMC Certification

The unit is independently certified to comply with the primary EMC requirements of the Medical Devices Directive (93/42/EEC) as well as the EMC and Low Voltage Directives. The complete unit has been designed and is manufactured to take account of the requirements of BS EN 60 601-1-2:2007 with regard to the electrical safety of medical electrical equipment.

Patient Power Integration

Equipment control units provided as part of a 'Patient Power' provision can be attached to the front of the **FS MEDICOL** to facilitate a co-ordinated solution to entertainment provision. The actual arrangement will depend upon the Patient Power provider selected.

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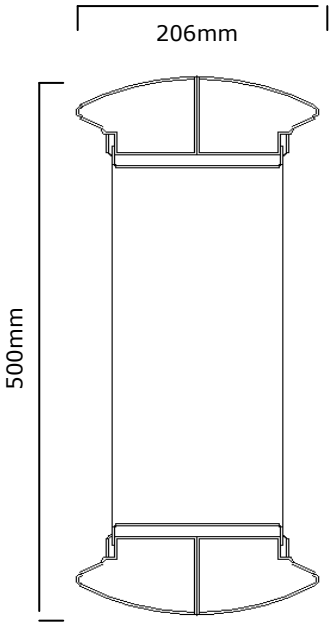
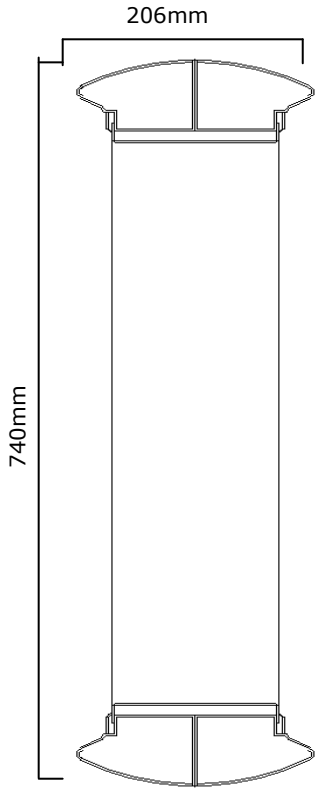
Standard FS MEDICOL	Broad FS MEDICOL
	

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Standard Units	Standard FS MEDICOL	Broad FS MEDICOL
Height (mm)	3000	3000
Width (mm)	502	742
Depth (mm)	206 (sides), 142 (centre)	206 (sides), 142 (centre)
Finish	Powder coated / Anodised	Powder coated / Anodised
Standard Content		
Nursecall & Handset provision	✓ x 1	✓ x 1
Anglepoise reading/observation light	✓ x 1	✓ x 1
Two way & off bedlight control switch	✓ x 1	✓ x 1
Twin Switched Socket Outlets	✓ x 2	✓ x 4
Data/Voice Outlets	✓ x 2	✓ x 2
TV Socket	✓ x 1	✓ x 1
Gas Provision		
Oxygen	✓ x 1	✓ x 2
Nitrous Oxide	●	✓ x 1
Medical Vacuum	✓ x 1	✓ x 1
Medical Air (MA4)	✓ x 1	●
Entonox (N_2O/O_2)	●	✓ x 1
AGSS	●	✓ x 1

Key

✓ x 8 8 units of this item are included.

● Available as an additional option.

All **FS MEDICOL** modules can be customised in most areas to meet the individual requirements of each job. Please contact our sales department for details.

All Cableflow products are designed and manufactured in the UK. We reserve the right to change or alter designs from time to time without prior notice. When specifying please check with us to ensure that you are in possession of the latest issue of this datasheet.

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Document Reference	Document Description
BS 196: 1961	Non-reversible plugs and socket outlet up to 250 Volts
BS 476-10: 2009	Fire tests on building materials and structures
BS 1363-1: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs
BS 1363-2: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets
BS 1363- 3: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for adaptors
BS 1363- 4: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A fused connection units switched and unswitched
BS 2754: 1976	Construction of electrical equipment for protection against electric shock
BS EN 60669: 1996 (replacing BS 3676-1: 1989)	Switches for fixed electrical installations
BS 5733: 1995	General requirements for electrical accessories
BS 6496: 1984	Powder organic coatings for application and stoving to aluminium alloy extrusions
BS 6701: 2010	Telecommunications equipment and telecommunications cabling
BS 6972: 1988	Specification for General requirements for luminaire supporting couplers for domestic, light industrial and commercial use
BS 7671: 2008	Requirements for electrical installations. IEE Wiring Regulations (17th Edition inc amendments)
BS 8300: 2009	Code of Practice: Design of buildings and their approaches to meet the needs of disabled people.
BS EN 737-1: 1998	Medical Gas Pipeline Systems. Terminal units for compressed medical gases and vacuum
BS EN 737-4: 1998	Medical Gas Pipeline Systems. Terminal units for anaesthetic gas scavenging systems
BS EN 12373:2001	Aluminium and aluminium alloys. Anodizing
BS EN 50081-1: 1992	EMC. Generic emission standard. Residential, commercial and light industry
BS EN 50081-2: 1994	EMC. Generic emission standard. Industrial environment
BS EN 50082-1: 1998	EMC. Generic immunity standard. Residential, commercial and light industry
BS EN 50083-2: 2006	Cable networks for television signals, sound signals and interactive services. EMC compatibility
BS EN 50085-1: 2005	Cable trunking systems and cable ducting systems for electrical installations
BS EN 50085-2: 2006	Cable trunking systems and cable ducting systems for electrical installations intended for mounting on walls and ceilings
BS EN 55015: 2006	Radio interference characteristics of fluorescent lamps and luminaries
BS EN 60439-5: 2006	Low-voltage switchgear and control gear assemblies. Particular requirements for assemblies for power distribution in public networks
BS EN 60529: 1992	Specification for degrees of protection provided by enclosures luminaires (IP code)
BS EN 60601-1: 2004 (replaced by BS EN 6060-1: 2007)	Medical electrical equipment. General requirements for safety. Collateral standard. Usability
BS EN 60601-1-2: 2007	Medical electrical equipment. General requirements for basic safety
BS EN 60669-1: 2000	Switches for household and similar fixed electrical installations
BS EN 61008- 1: 2004	Residual current operated circuit-breakers without integral overcurent protection for household and similar used (RCCBs)
ISO 11197: 2009	Essential safety Requirements of Medical Supply Units (supersedes EN 793)
ISO 7396-1:2007	Medical gas pipeline systems. Pipeline systems for compressed medical gases and vacuum

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ISO 7396-2: 2007	Medical gas pipeline systems. Anaesthetic gas scavenging disposal systems
HBN 00-03: 2010	Clinical and clinical support spaces (in preparation; to supersese Health Building Note 40 Common activity spaces: Volume 2 - Treatment areas and Volume 3 - Staff areas)
HBN 00-09	Infection control in the environment
HBN 04-01: 2010	Adult in-patient facilities
HBN 4, Supplement 1	Isolation facilities in acute settings
HBN 22: 2005	Accident and emergency facilities for adults and children
HBN 28: 2006	Facilities for cardiac services
HBN 40: 1995	The patient environment – common activity spaces
HBN 57: 2003	Facilities for critical care
HTM 00: 2006	Policies and principles: best practice guidance for healthcare engineering.
HTM 01	Anti-static precautions
HTM 02-01	Medical gas pipeline systems
HTM 06-01	Electrical services: supply and distribution
HTM 06-02	Electrical safety guidance for low voltage systems
HTM 08-03	Bedhead Services
HTM 17	Health Building Engineering Installations
HTM 2011	Emergency Electrical Interference
HTM 2014	Abatement of electrical interference
HTM 2020	Electrical safety code for low voltage systems
HFN 30: 2003	Infection control in the built environment
CIBSE LG 2: 2008	Lighting guide - Hospitals and health care buildings
CIBSE LG 3: 2001	Lighting guide - The visual environment for Display Screen Use
CIE	European Lighting Guide
IEC 60364-7-710: 2002	Electrical installations of buildings. Requirements for special installations or medical locations (UK BS7671 Section 7-710)
NHS SPEC C49: 1997	Nurse Call Systems. Revision 3
72/23/EEC	Low Voltage Directive
89/336/EEC	EMC Directive
93/42/EEC	Medical Devices Directive

This product is designed and where applicable tested and certified in accordance with the aforementioned documents.

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