

Dr SU™

Delivery room Service Unit

Dr SU is a vertical Bedhead Services Trunking System designed specifically for LDRP/Delivery rooms with the capacity for a full range of patient care services within a neat and stylish enclosure, where unsightly services are partially concealed from view, thus giving a homely and domestic feel to the overall environment. Manufactured from extruded aluminium, Dr SU is available to order in more than 1000 colour combinations with timber veneer, laminate or coloured fascia panels designed to portray a feel of opulence in the patient environment.

A vertical wall wash lighting system utilising coloured LEDs or TL5 lamps which can be set and controlled by the expectant parent, simultaneously adds to the ambience of the room. A series of lighting accessories allow co-ordinated room illumination, all in accordance with CIBSE LG2:2008. Using TL5 lamps and gear, the lighting system will provide flicker-free, inaudible operation at all times. A full range of ballasts at 28W, 54W or 80W, fixed output, dimmable or DALI controlled, is available.



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Recent changes in the environmental design requirements of LDRP rooms, typified by the recent publication of **HBN 21**, seek to develop a calming and less clinical environment for both the patient and clinical staff alike.

The **Dr SU** by **CABLEFLOW** has been specifically designed with these considerations in mind whilst acting as the sole source of delivery of patient care services within the patient environment.

An unobtrusive ergonomic design with semi concealed services outlets ensures that the room environment has a homely yet functional feel, while portraying a high level of design. The display of services, including calming supplementary room lighting that can



be varied by the expectant mother to suit her mood at the time, provides a revolutionary concept in the provision of patient care services within the room.

Manufactured from a system of aluminium extrusions with a decorative fascia panel of either wood veneer, laminates or a simple painted finish, the **Dr SU** can be customised to provide a full range of electrical, nurse call, data & voice, medical gas and communication services for general patient care.

Whether the application is for High Dependency or general ward use, the **Dr SU** can be configured to suit a variety of applications. It is fully EMC certified and can include all or any of the following optional features:

- Wall wash lighting.

Provides a "wash" of light around the sides of the unit, adding to the general ambience and providing additional lighting to the room. This can include a series of coloured LEDs which give a variety of hues to the room, thus introducing colour to the healing process.

- General ambient lighting (uplights)

By integrating the **integra wardLIGHT** with the **Dr SU**, you can provide ambient ward lighting to illuminate the whole room in accordance with CIBSE LG2:2008.

- Adjustable arm Reading lights

A standard lamp bracket can be fitted so as to mount an 'anglepoise' type lamp for reading/observation lighting.

- Medical equipment rail

A 450mm medical equipment rail can be provided across the front of the unit.

- IV Pole

A stainless steel 25mm diameter IV pole is provided on both sides of the column for the connection of ancillary drip stands, IV pumps or monitoring equipment.

- Pre-gassed & pre-wired for power

The unit is supplied pre-wired and pre-gassed in accordance with national standards and HTM 02-01.

- Night Lighting

The various lighting solutions offered by the **Dr SU** can all provide a night lighting option.



Multiple Applications

The **Dr SU** has been designed for use within in-patient accommodation, and specifically within maternity wards, including high dependency and treatment rooms.

The **Dr SU** is most suited to be installed in LDRP rooms where the majority of expectant mothers will spend their entire period of stay and has been designed to contribute substantially towards a homely and domestic feel to the room environment. By having a domestic feel to the product, both mother and her partner are sure to feel at ease in a homely environment where the extent of the clinical facilities are not immediately evident. By creating this environment, staff morale is lifted and offers greater efficiency to working procedures whilst also encouraging a sense of well being.



conventional sterile and unwelcoming delivery room environment. Medical gas terminal outlets are neatly accommodated in the front fascia panel of the **Dr SU**, thus ensuring that access is uninhibited at any time. A full provision of gas terminal units can be accommodated.

A pair of integral stainless steel vertical IV poles for clamping various monitoring and patient care equipment, such as sphygmomanometers or drip stands, can be neatly integrated onto either side of the module if required. This is especially relevant when acute patient monitoring equipment is required as part of high dependency care.

Where some mothers may prefer alternative methods of giving birth the composite nature of the **Dr SU** ensures that furniture configurations within the room can be varied to suit each and every requirement.

Designed to be located directly behind the bed position, the **Dr SU** is sufficiently wide enough to present the cabled outlets for power, data and nurse call on either side of the bed or couch.

Lighting

The **Dr SU** has been designed to provide the sole source of room illumination when combined with the **CABLEFLOW integra wardLIGHT**, an asymmetric system of uplighters which neatly interface with the sides of the **Dr SU** to provide a luminaire for general room illumination in accordance with the requirements of CIBSE LG2:2008. These luminaires are indirect uplighters and are sited outboard of the bed position so as to protect a prone patient from any resultant glare on the ceiling.

Bed Buffer

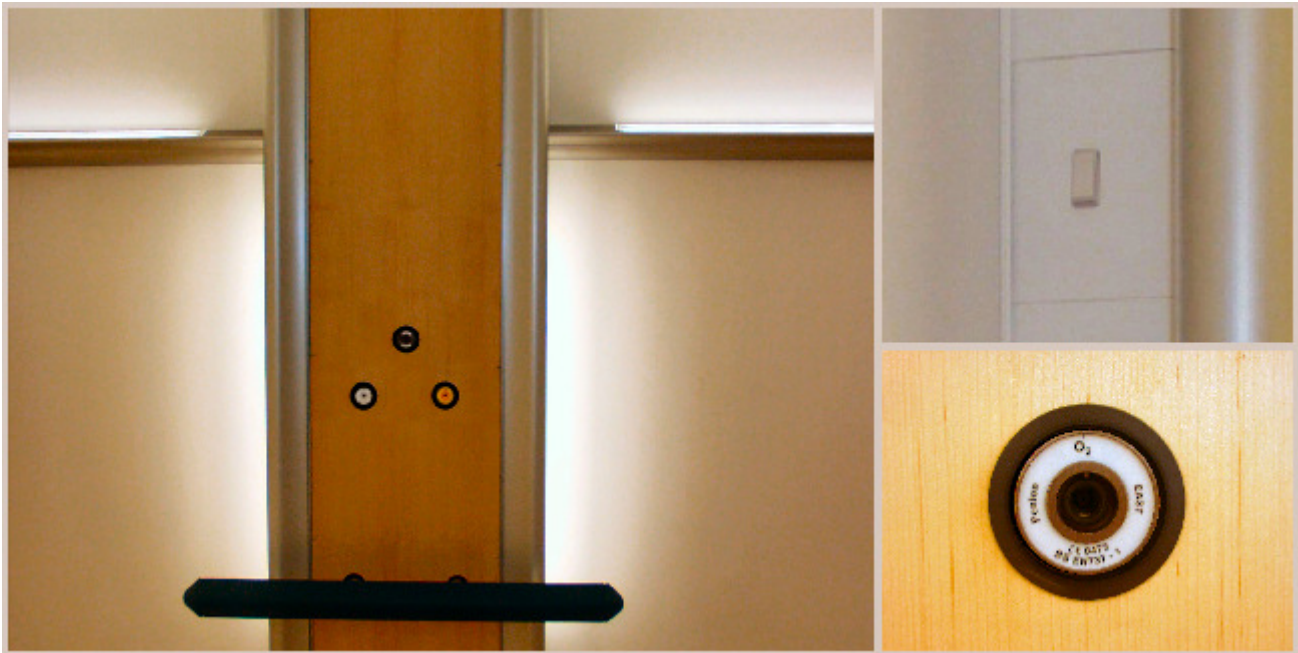


Co-ordinated Décor

The central fascia panel finish can be varied according to the eventual room décor selected and is made from flame retardant high density MDF with a polished finish. The hue of colours and finishes are encouraged on this system to enhance the overall room appeal and make a feature of the product, thus creating a focal point. All surfaces of the **Dr SU** 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 delivery room environment whilst maintaining a fashionable appearance throughout time.

Services Provision

With semi-concealed services outlets for power, data, nurse call and lighting control, the **Dr SU** provides a non-clinical feel of comfort that sets it apart from a



The inclusion of a bed buffer which attaches directly to the wall ensures that the **Dr SU** is protected from damage by the constant movement of beds and mobile equipment.

By using the latest energy efficient TL5 lamps and gear the **Dr SU** lighting technology has been derived from our hugely successful range of linear Bedhead Services Trunking Systems with fully integrated ambient and reading lights. The lighting solutions provide both a calming and a warm feel to the room with variable methods of dimmable control.

Artificial lighting is critical in the overall design of the patient care environment and its clever and variable use adds to the functionality of the room. Using lamps with colour rendering at 4000K, variations in skin tones and colour can be easily defined and identified by nursing staff.

Two vertical luminaires offer further lighting options and have been cleverly integrated into the sides of the **Dr SU**, neatly concealed so as not to be immediately visible until energised. These provide a general wall wash of light behind the bed whilst also acting as a calming night-time provision. This luminaire can be supplemented by a series of LED's where the illumination colour can be changed or supplemented throughout the range of RYGB, all under the full control of the expectant mother.

These vertical luminaires also assist in the illumination of services outlets and monitoring equipment to clinical staff at night so as not to disturb the patient by fully illuminating the room. The **Dr SU** cleverly cuts off unwanted glare to the patient or to others within the room.

All luminaires are fully dimmable so as to satisfy the requirement for variable levels of room illumination.

A range of adjustable arm reading/observation or examination lights can also be attached to the fascia panel of the **Dr SU**, thus providing a full range of general and clinical lighting facilities.

EMC Certification

The unit is independently certified to comply with the 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 **Dr SU** to facilitate a co-ordinated solution to entertainment provision.



Standard Units	Dr SU Standard	Dr SU HDU
Height (mm)	2200	2200
Width (mm)	740	840
Depth (mm)	214	257
Finish (fascia)	MDF Veneered / Laminated / Coloured	MDF Veneered / Laminated / Coloured
Finish (sides & trunking)	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
Single Socket Outlets - unswitched	✓ x 8	✓ x 8
Data/Voice Outlets	✓ x 2	✓ x 2
TV Socket	✓ x 1	✓ x 1
IV Poles	●†	✓ x 2
Wall wash lighting system	●††	●††
Variable colour LED night light	●	●
Integrated bed buffer	●	●
Gas Provision		
Oxygen	✓ x 1	✓ x 2
Nitrous Oxide	✘	✓ x 1
Medical Vacuum	✓ x 1	✓ x 1
Medical Air (MA4)	✓ x 1	✘
Entanox (N ₂ O/O ₂)	✘	✓ x 1
AGSS	✘	✓ x 1

Key

- ✓ x 8 8 units of this item are included.
- Available as an additional option.
- ✘ Not available.

* Available from our standard range.

† Addition of IV poles to the standard **Dr SU** will alter the dimensions.

†† Available as 28W, 54W or 80W systems with fixed output, digital dimmable, analogue dimmable or DALI control.

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.



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 overcurrent 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



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 supersede 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 21	Facilities for maternity care
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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