

Foster Coldrooms

infinitely adaptable, utterly foodsafe

When choosing a coldroom, you need a supplier who will not only design a room to suit your specific needs, but manufacture and install your rooms with the minimum of disruption to your business.

Foster has extensive experience in coldroom design and installation, from small packaged coldrooms for independent caterers, to large multi-suites for hospitals, international hotel chains and top restaurants worldwide. We can configure and supply specialist applications such as food processing, bakery and in-flight catering facilities.

Calling Foster is the simplest way to get the coldroom you need. Just tell us the nature of your business and highlight any requirements: we'll design and install the perfect coldroom for you.



coldrooms maximise the storage space available



small packaged coldrooms can be installed in less than a day

service

- The complete package: make the most of Foster's extensive experience from initial site survey, to design, quotation, manufacture and installation
- Competitive: Foster Coldrooms are superior not only on quality, but also on price
- Speed of quotation: automated Computair pricing system provides an instant quotation to suit your needs
- Faster turnaround: Foster's Computair system speedily converts quotes into orders, and reviews stock and production planning to ensure the quickest availability

construction

- Solid, foodsafe panel construction
- All panels meet the latest international standards for food safety, fire retardancy, thermal efficiency and environmental friendliness
- White PVC laminate is used because of its resistance to salt spray, heat, humidity and mould
- PVC laminate complies with food contact recommendations avoiding the danger of food contamination
- Panels are insulated with polyurethane foam
- Panels are securely and safely locked together using the exclusive 'Fosterlok' camlock system

insulation

- Thickness
75mm for temperatures down to -23°C
100mm for temperatures down to -29°C
- Zero ODP insulation

design

- Coldrooms are designed to meet your individual needs, making optimum use of your storage space.
- Computair design and quotation technology provides an accurate scale drawing and quotation in seconds
- The Foster Computair system selects the most appropriate refrigeration system and shelving arrangement for each individual room
- Optimises panel and shelving layouts for the most cost-effective and simplest means of construction
- Creates an accurate scale drawing for customer approval, based on the customer's input
- Design amendments are simple and easy to carry out

finishes

	Standard Finish
Walls	White PVC laminate
Ceilings	White PVC interior Galvanised steel exterior
Floors	1.5mm rigidised mild steel Optional Floor: Plywood reinforced 1.5mm rigidised mild steel

Other options available on request

installation

- Quick and easy to install
- Foster's dedicated Installations Team provides expertise, practical support and advice
- Complete site supervision service available

flexibility

- Foster Coldroom capacities and configurations are endless. Complete flexibility in the planning and manufacturing process allows a coldroom to be created to meet with the customer's space allocation and application criteria



designed to your specification for your business



large volume coldrooms suitable for applications such as hospitals and hotels



specialist food preparation area

Foster Packaged Coldrooms

Foster offers a wide range of complete coldroom packages which can be installed with the minimum disruption to your kitchen operation.

wide range

- Choose from our 30 most popular sizes - see tech spec.
- A wide choice is available; for information on all other sizes available, please call Coldroom Sales
- Choice of 3 storage temperatures

Temperature Bands

Refrigerator (H)	+2 to +4°C
Meat (M)	0 to -2°C
Freezer (L)	-18 to -21°C

refrigeration

- All packaged rooms are supplied with a quick and easy to install Solo Plus integral refrigeration system, which is neatly mounted high on the exterior wall
- Rated to operate in 32°C ambient conditions as standard; 43°C option available (price and delivery on request)
- R404a refrigerant as standard on all models

shelving

- Each packaged system is fully racked with shelving which is easily assembled with a screwdriver
- Continuous uninterrupted shelving runs make the best use of the available space
- Fosterstor nylon coated wire shelving supplied as standard
- Anodised aluminium and stainless steel shelving are available as an option

fully packaged

- Prices include refrigeration system, shelving, rigidised galvanised floor, a lockable door with internal release handle and internal lighting (door heater and PRV on freezer models only)
- Modular construction means installation can be completed in less than a day
- Exterior height: 2100mm suits most applications



● Foster Packaged Coldrooms
*features anodised aluminium shelving option



more shelving space - even inside the smallest coldroom*

microprocessor control with digital display

Foster Modular Coldrooms

door, shelving and refrigeration system options



Semi-rebate Door (standard)

Available in a range of sizes to suit customer requirements.
Door dimensions:
1975 x 900mm (standard)
1975 x 800mm (option)
1975 x 675mm (option)
1975 x 600mm (option)
This door comes complete with Fermod 621 handle.



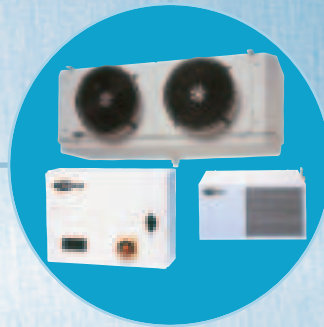
Solo Plus

Wall or ceiling mounted integral refrigeration system
Choice of five different design temperature options available
Choice of capacities
Fully programmable control panel
HFC refrigerant
Tough, hygienic construction



Sliding Door

Ideal for sites with narrow corridors and/or trolley traffic. Widths available from 600mm to 3000mm in 100mm increments.



Duet

Split refrigeration system includes housed condensing unit, unit cooler and separate control panel
Seven temperature options
Easy remote operation
HI/low temperature alarm



Flip-flap Door

For easy access from one room to another.
Sizes on application



Unit Coolers

Two designs (14 models) for every application
Capacities from 1600 to 9500 watts
ABS casings
Evaporator temperatures down to -30 °C
Designed for easy installation



Door Options

Door Frame Heaters
Low voltage door frame heaters recommended with all rooms of temperatures below -2°C or high humidity

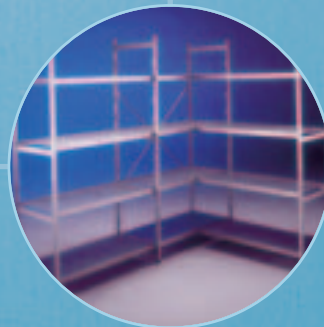
Low Voltage Transformer

Door Kick Plates
For further protection to doors

Strip/Air Curtains
Designed to hang over doorways to limit a rise in temperature when the door is opened, particularly suitable when regular access is required

Wiper Gasket
For recessed/ramp options

Door Peep Windows
Lets you see into the coldroom without opening the door (above 0°C only)



Shelving Systems

Two complementary systems
Wire, slatted, solid or perforated shelves
Free standing shelving options
Hygienic and easy to clean
Anodised aluminium, stainless steel, nylon wire and polymer matt finish available
Mobile options available

Other Coldroom Options

Bumper Bars
Give added protection from trolley traffic on the coldroom interior

Ceiling Support
Coldroom ceiling supports engineered to suit individual building and coldroom designs

Pressure Relief Valves
Recommended on all coldrooms below -2°C

Double Glazed Windows
For easy stock checking without the need to open a coldroom door

Infill Panels
To finish gaps from coldroom to wall or ceiling and create a clean, safe finish

IceSpy
The perfect solution to the problem of constant food temperature monitoring

Lights
Ceiling lamps available

Coldrooms

modular coldrooms structural and technical features



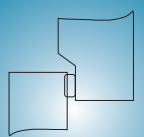
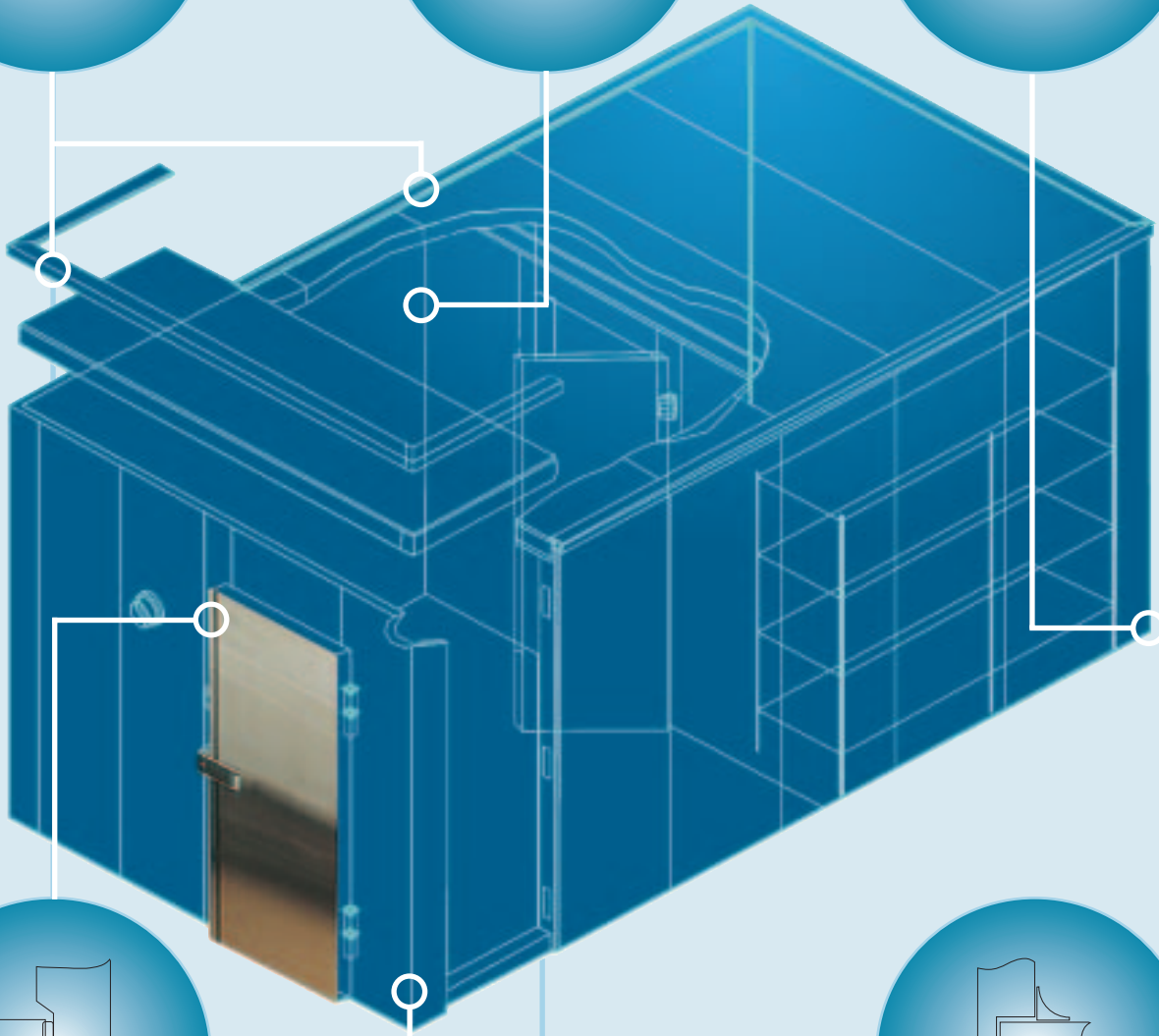
Fully covered interior avoids dirt traps and makes cleaning easy



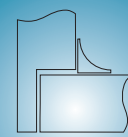
Partition walls are fully covered and can be located in any position



Hygienic covering with ball corner features



Semi-rebate door with gasket for positive seal



Corner assembly for structural stability. (Plan view)

No horizontal joints to walls, just a smooth easy to clean surface

Interior safety release mechanism overrides door closure or locking for personal safety*

Safe, hygienic, lockable door furniture with concealed fitting to prevent unauthorised access*

Hygienic, screw-free door frame for a clean appearance

Heavy duty one piece, stainless steel foot plate gives hard-wearing door threshold

Non-slip, patterned, hard wearing floor

* Only available on slab and semi-rebate door types

Coldrooms

floor recommendations

The right floor is essential to meet individual requirements. Foster can advise on the most suitable floor designs for individual food handling and storage schemes and provide them as part of the project package

- Modular Floors**
1.5mm rigidised galvanised mild steel as standard, reinforced option available

- Floorless**
Where required the coldrooms can be supplied floorless

Wall panels are secured to the subfloor by means of a white plastic perimeter channel

'Altro' type floor covering can be taken through and covered up the base of the wall panels to give an easy-to-clean, hygienic finish as part of a separate contract

- Recessed**
Combination of recessed floors can be accommodated with wiper overlap doors as appropriate

- In situ**
Where specified, the floor can be supplied in situ. Construction consists of a 1000 gauge polythene vapour barrier overlaid with Styrofoam slabs with the joints staggered to give a good thermal barrier. The finish is a reinforced granolithic concrete topping trowelled smooth. A recessed sub floor will be necessary to allow for level entry. A heater may also be required (see heater options)

- Altro**
If an 'Altro' type floor covering is to be laid, the modular floor panels will be finished internally in smooth galvanised steel or overlaid with 9.5mm thick plywood

Overlays
Where specified overlays are available (see separate architectural specification)

- Heater Mats**
If a coldroom is installed on other than ground floors or for temperatures below -18°C heater mats are required to eliminate condensation

Options:
Flexible Approx 5mm thick
Modular 25mm thick
Traditional Incorporated within a 50mm screed

Floor types	Static Load (distributed)	Concentrated Load (300mm x 300mm)	Concentrated Load (25mm x 25mm)	Rolling Load	Recommended Application
1.5mm rigidised mild steel galvanised non reinforced	1500kg/m ²	900kg	400kg	250kg	Light Duty Trolley Shelving supports
1.5mm rigidised mild steel galvanised reinforced	1500kg/m ²	900kg	400kg	400kg	Heavy Duty Trolley

Note: Foster does not recommend mild steel galvanised floors in acidic/saline environments. For floor loadings greater than those stated above, contact Foster Coldroom Sales. It is important to have a flat, level floor for the installation of the coldroom.

technical specifications

Dimensions

- Wall Panels**
Standard height options 2.1m, 2.3m, and 2.6m.
Special heights on application
- Insulation**
Thickness based on 32°C ambient
75mm Down to -23°C
100mm Down to -29°C
Insulation thickness may need to meet different structural criteria on higher ambients
- Ceiling Panels (Standard width 1200mm):**
Maximum unsupported
Thickness Ceilings Length
75mm 4.2m
100mm 6.0m
On rooms with large ceiling spans, external ceiling supports will be fitted

Construction

- The coldroom is constructed on the modular principle with each panel being locked securely to adjacent panels and drawn tightly together by the Fosterlok cassette cam-operated locking system. The locks are securely foamed in place without any wood or metal being used with locking hole buttons provided
- Panel edges are precision box-formed for strength and rigidity with all round tongue and groove jointing to ensure a good, strong, hygienic joint, eliminating the need for gaskets, cover strips, screws or rivets
- Two beads of mastic sealer need to be applied to the female recess of each panel before locking tight to the male profile of the next panel. A silicone sealer is applied between the returned metal edges of the panels inside and outside the coldroom to prevent any ingress of moisture

- The coldroom is erected from 1200mm wide panels with corner and partition joints fabricated to suit the site to ensure exact dimensional requirements. Corner, partition, wall to ceiling and wall to modular floor joints are secured internally by aluminium angle section complete with UPVC coved profile with spherical ball corner pieces for ease of cleaning. External exposed corner and ceiling to wall joints are fitted with 80 x 80 ABS angle secured by thermoplastic drive rivets. All coldrooms conform to BS 2502

Fire Retardancy

- Insulation contains a fire retardant additive. Panels are tested to:
BS 476: Part 7 - Class 1
BS 476: Part 6 - Index I<12, 1<6
BS 4735: Mean extent burnt 55mm
 Mean extinction time 57 secs
 Mean burning rate 0.9mm/sec
- (Panels shall conform to the requirement of The Building Regulations (1985) - Fire Spread - Class 'O'). Coldrooms are supplied to BS 5588 Part 11 section 17 when specified for retail store/shop applications

Insulation

- Each panel is insulated with closed cell rigid polyurethane foam injected using high pressure technology, and securely bonded to facing material to form a 'one-piece' construction. Foam is totally free of CFC blowing agent having a O.D.P. of zero. Panels have a maximum 'K' factor (initial) of 0.021 W/MK at 23°C mean temperature. Foam density is between 38kg/m³ to 44kg/m³ to provide optimum thermal insulation efficiency and a strong lightweight panel construction

Standard References

- BS 476: Fire test on building materials and structures
- BS 476: Part 6: Method of test for fire propagation of products
- BS 476: Part 7: Method of classification of the surface spread of flame of products
- BS 2502: Specification for the manufacture of sectional coldrooms (walk in type)
- BS 5588: Part 11 Fire precautions in the design, construction and use of buildings (on application)
- BS 4533: Lummaires (on application)

Quality Assured

- Foster coldrooms are manufactured to the strict dictates of international quality standards. Foster are registered to BS5750; Part 1 and ISO 9001 quality systems for design, manufacture, installation and service of refrigeration equipment and panel products

Supervision (UK only)

- The facility is available for the installation to be controlled by an Installation Supervisor from the initial receipt of order to the final handover. Services are available for pre-installation site visits and meetings, control of drawings and paperwork, and supervising the actual installation in accordance with ISO 9001

For full technical details, please refer to our Coldroom Architectural Specifications (available on request)

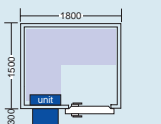
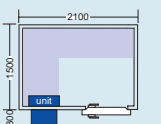
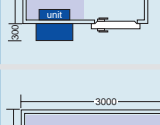
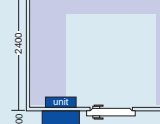
MODEL EXPLANATION

Example: 2.4 x 2.7

2.4 Width dimension (m)	2.7 Length dimension (m)
--------------------------------------	---------------------------------------

Coldrooms

Choose from 30 of our most popular storage formats. Contact Coldroom Sales for other size options

<p>1.8 x 1.2 Cubic Capacity: 3.47m³ (122 ft³)</p> 	<p>1.8 x 2.1 Cubic Capacity: 6.44m³ (227 ft³)</p> 	<p>2.4 x 2.1 Cubic Capacity: 8.78m³ (310 ft³)</p> 	<p>2.4 x 2.7 Cubic Capacity: 11.48m³ (405 ft³)</p> 
<p>2.1 x 1.2 Cubic Capacity: 4.10m³ (145 ft³)</p> 	<p>2.7 x 1.5 Cubic Capacity: 6.89m³ (243 ft³)</p> 	<p>3.0 x 1.8 Cubic Capacity: 9.41m³ (332 ft³)</p> 	
<p>1.8 x 1.5 Cubic Capacity: 4.46m³ (157 ft³)</p> 	<p>2.4 x 1.8 Cubic Capacity: 7.43m³ (262 ft³)</p> 	<p>2.1 x 2.7 Cubic Capacity: 9.95m³ (351 ft³)</p> 	<p>2.7 x 2.4 Cubic Capacity: 11.48m³ (405 ft³)</p> 
<p>2.4 x 1.2 Cubic Capacity: 4.73m³ (167 ft³)</p> 	<p>1.8 x 2.4 Cubic Capacity: 7.43m³ (262 ft³)</p> 		
<p>2.1 x 1.5 Cubic Capacity: 5.27m³ (186 ft³)</p> 	<p>2.7 x 2.1 Cubic Capacity: 9.95m³ (351 ft³)</p> 	<p>2.4 x 3.0 Cubic Capacity: 12.83m³ (453 ft³)</p> 	
<p>2.7 x 1.2 Cubic Capacity: 5.36m³ (189 ft³)</p> 	<p>2.1 x 2.1 Cubic Capacity: 7.61m³ (269 ft³)</p> 	<p>2.4 x 2.4 Cubic Capacity: 10.13m³ (358 ft³)</p> 	
<p>1.8 x 1.8 Cubic Capacity: 5.45m³ (192 ft³)</p> 	<p>3.0 x 1.5 Cubic Capacity: 7.70m³ (272 ft³)</p> 	<p>2.1 x 3.0 Cubic Capacity: 11.12m³ (393 ft³)</p> 	<p>3.0 x 2.4 Cubic Capacity: 12.83m³ (453 ft³)</p> 
<p>3.0 x 1.2 Cubic Capacity: 5.99m³ (211 ft³)</p> 	<p>2.7 x 1.8 Cubic Capacity: 8.42m³ (297 ft³)</p> 	<p>2.4 x 1.5 Cubic Capacity: 6.08m³ (215 ft³)</p> 	<p>2.7 x 2.7 Cubic Capacity: 13.01m³ (459 ft³)</p> 
<p>2.1 x 1.8 Cubic Capacity: 6.44m³ (227 ft³)</p> 	<p>2.1 x 2.4 Cubic Capacity: 8.78m³ (310 ft³)</p> 	<p>3.0 x 2.1 Cubic Capacity: 11.12m³ (393 ft³)</p> 	

32°C AMBIENT	
electrics	350H - 1300H
	350M - 1300M
	350L - 690L
	750L - 1300L
Supply	
230/1/50	<input type="checkbox"/>
400/3/50	<input type="checkbox"/>
Amps	
13 Amps	<input type="checkbox"/>
16 Amps	<input type="checkbox"/>

Note: For 43°C ambient applications please call the Foster Sales Team for sizing and electrical specification

NB. drawings are not to scale