

SPECIALIST EQUIPMENT MANUFACTURERS FOR CLEANROOMS, LABORATORIES AND HOSPITALS



ENGINEERING EXCELLENCE SINCE 1971



PROVIDERS TO: GSK, NOVARTIS, ASTRA ZENECA, SHERING-PLOUGH, UNIVERSITY OF OXFORD, UNIVERSITY OF CAMBRIDGE, UNIVERSITY OF MANCHESTER AND PLENTY MORE



FELCON GOLDSWORTH LTD

Felcon Limited
Unit 11, Euro-Business Park, New Road, Newhaven, East Sussex, BN9 ODQ, UK
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E-mail sales@felcon.co.uk Web www.felcon.co.uk

LAMINAR AIR FLOW



PERSONNEL AIR SHOWER



Laminar Air Flow is used throughout the industry. The Felcon range has been developed over decades to suit each application. A combination of filtered air, laminar air flow and air flow patterns enable Felcon to offer units with Operator Protection, Product Protection, Environmental Protection or a combination of any of the above.

Laminar Air Flow is also used in other Felcon products such as 'Wet Benches' and 'Transfer Hatches'

Filtered Air standards conform to:

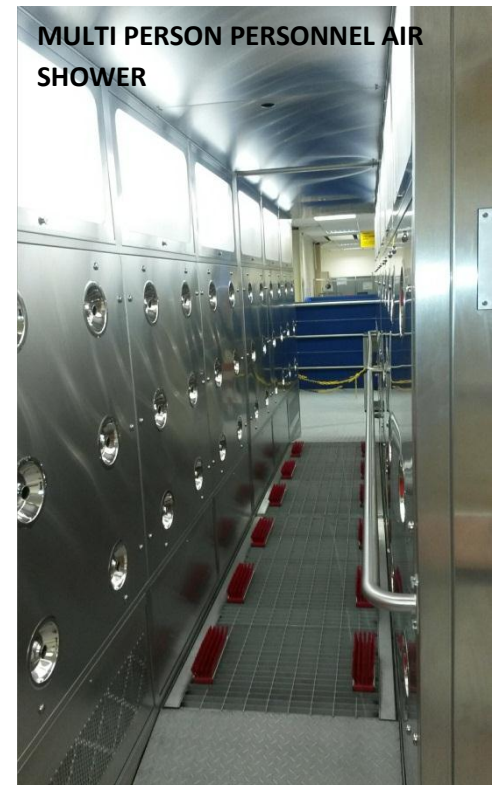
- ISO 14644-1
- BS 209 (Current Edition)
- EU CGMP (Current Edition)



2 PERSON 90 DEGREE PERSONNEL AIR SHOWER WITH RAMP FOR TROLLEY ACCESS



VERTICAL LAF UNIT WITH STAINLESS STEEL WORK ZONE



MULTI PERSON PERSONNEL AIR SHOWER



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LAMINAR AIR FLOW



STAINLESS STEEL LAF DOWN FLOW BOOTH



It's proven that the biggest cause of transfer of contamination into a clean room or laboratory or where contamination must be kept to a minimum is from personnel. The Felcon Personnel Air Shower assists in minimising this contamination.

The user enters the shower and is subjected to high velocity clean air. Contamination is dislodged from the users' garments and drawn into and through the integral filtration system. Final filtration is HEPA* filtered to 99.99% efficiency.

MOBILE REVERSE LAMINAR AIR FLOW DRUM DISPENSING BOOTH



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LAMINAR AIR FLOW



MOBILE PHARMACEUTICAL GRADE HLAF WITH PRODUCT PROTECTION



The Shower is used when entering a clean or controlled facility (to protect the product), and used when exiting a facility where contamination has been deposited upon the person (to protect surrounding rooms). It is used in a combination of both the foregoing where both the above are important and/or where cross contamination must be minimized.



PHARMACEUTICAL GRADE HORIZONTAL LAMINAR AIR FLOW WORK STATION



VERTICAL LAMINAR AIR FLOW UNIT IN STAINLESS STEEL



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ISOLATORS



ISOLATOR ENCLOSURE WITH OPERATOR AND PRODUCT PROTECTION



Our experienced in-house design team are able to adapt and cater for any need and requirement.

Here is a variety of Isolator examples provided to customers by Felcon.

- Pharmaceutical grade Keg Transfer and Tipping Isolator with conveyor system
- Tipping
- Transferring
- Capping
- Fumigation
- Specialist GAMP software
- Safe Change Filtration
- All within high grade sterile, not particulate generating environment



PILL LINE ENCLOSURE WITH OPERATOR AND PRODUCT PROTECTION

Standards for the Isolators conform to Containment Levels 3, typically 0.01mg/m³ exposure levels



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WET PROCESSING



LAF WET BENCH ARRAY BUILT FROM FM APPROVED THERMOPLASTICS – SOUTHAMPTON UNIVERSITY



Felcon Wet Processing tools are used where substrates or products require chemical etching or cleaning often as part of a larger manufacturing process typically in the manufacture of silicon wafers for example or in medical applications such as stent manufacture.



MANUAL WET BENCH ARRAY INC SPIN RINSER DRYER AND CHEMICAL DRAINAGE FACILITY



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WET PROCESSING



VERTICAL QUARTZ CLEANER



FULLY AUTOMATED LAMINAR FLOW WET BENCH



PV (PHOTOVOLTAIC) FULLY AUTOMATED SUBSTRATE WET PROCESSING STATION



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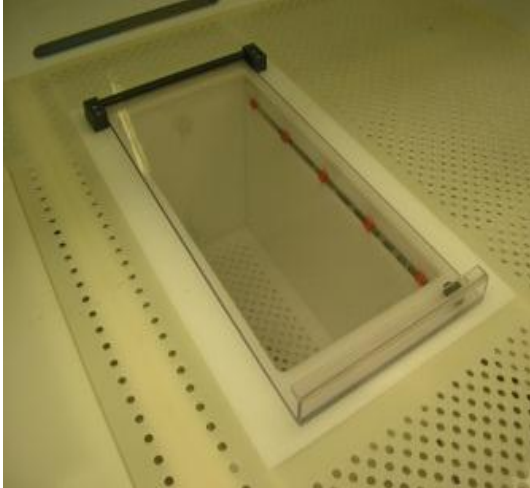
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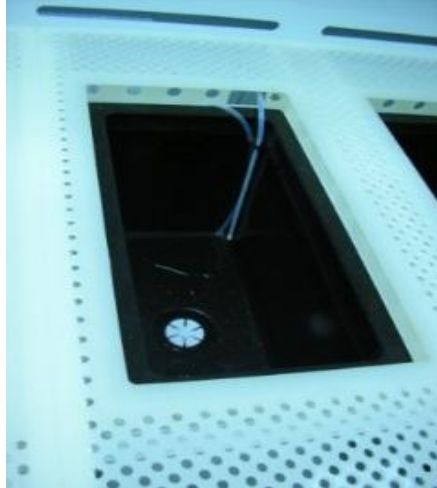
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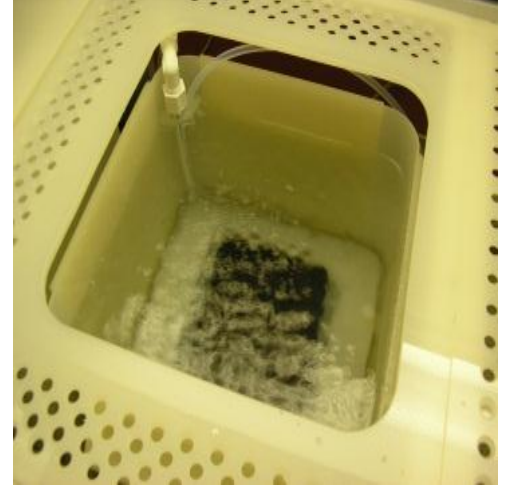
BATHS AND FITMENTS



AUTOMATED QUICK DUMP RINSE BATH



HEATED PFA COATED STAINLESS STEEL BATH



MEGA SONIC BATH



ACID FILTERED RECIRCULATION BATH



DI OVERFLOW WEIR BATH



ULTRA SONIC BATH



WET BENCH PROCESS BATH ARRAY SHOWING QUARTZ BATH QDR AND AMBIANT TEMPERATURE BOE BATH



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TRANSFER HATCHES



STAINLESS STEEL MECHANICALLY INTERLOCKED
TRANSFER HATCH WITH LAMINAR AIR FLOW



The Felcon Transfer Hatch is designed specifically for the transfer of product from one room to another (usually cleanrooms of varying pressure differentials) through adjoining wall partition. Transfer Hatches have many choices to have according to the application: Interlock Mechanical/Electrical and with LAF or without.



TRIPLE HATCH SUITE



PHARMACEUTICAL GRADE MULTI-DOOR DRUM TRANSFER
HATCH WITH LAMINAR AIR FLOW



MECHANICAL TRANSFER HATCH

Conforming to cleanroom build standards for:

- EU COMP (Current Edition)
- BS 209 (Current Edition)
- ISO 14644-1



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VHP TRANSFER CHAMBERS



VHP CHAMBER WITH INTERLOCKED DOORS AND INFLATABLE SEALS



The range of Felcon Transfer Hatches are also often used in areas where fumigation is used, especially the Stainless Steel Hatches. Although without the added features of Fumigation Chambers the regular Transfer Hatches offer a cost competitive alternative.

Felcon Fumigation Chambers for fumigation on entry and/or exit to a facility. Suitable for use with a wide range of fumigants such as Hydrogen Peroxide.



MULTIPLE CAPACITY TROLLEY CHAMBER WITH ADJACENT PRODUCT CHAMBER



WALL MOUNTED VHP CHAMBER HATCH - SINGAPORE



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FUME EXTRACTION CUPBOARDS



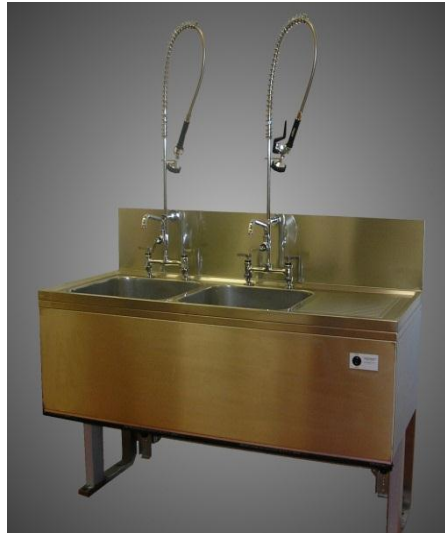
Felcon Ductless Fume Cupboards providing Operator Protection with Carbon Filtration for recirculation of air back into the laboratory which the unit stands.

Carbon filtration provides a safe alternative to conventional fume hoods in many applications, without the additional cost of extraction ductwork and fans normally located externally.

In addition the re circulatory characteristics of the air flow avoid the cost of reheating supply air back into the laboratory

Standards typically conform to BS7258 and DIN EN 14175-7

DUCTED FUME CABINET AVAILABLE IN ALL POLYPROPYLENE (ACID BASED) OR IN ALL STST (SOLVENT BASED) WITH BYPASS AIR FLOW CHARACTERISTICS



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CLEANROOM EQUIPMENT AND ACCESSORIES



STEPTOVER BARRIER WITH SWIVEL SEAT AND CLEAN GARMANT STORAGE SHELVES

Felcon Cleanroom Equipment and Accessories are often used by Cleanroom builders when building a new facility as well as Cleanroom users. As with all Felcon products these are able to be designed and built to suit an application.



DOCUMENT PASS THROUGH



MOBILE SINK AND CUPBOARD ARRAY



POLYPROPYLENE TABLE



RAPID EXIT PANEL



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DYE STAIN SINK WITH CARBON FILTRATION



FORENSICS CHEMICAL PROCESSING SINK



DARKROOM SINK WITH CARBON FILTRATION



DOWNDRAFT POD WITH CARBON FILTRATION



EVIDENCE DRYING STATION



EVIDENCE STORAGE AND DRIP DRYING RACK



FINGERPRINT DOWNDRAFT POD



All Felcon Equipment, Stainless Steel or Thermoplastics is built in its own manufacturing factory in Newhaven. With a team of experienced in-house design, Mechanical, Electrical, Software and Test Engineers, Felcon are able to design and build to suit any application, large or small. If you need something specific to your requirements, Felcon are able to cater for you.



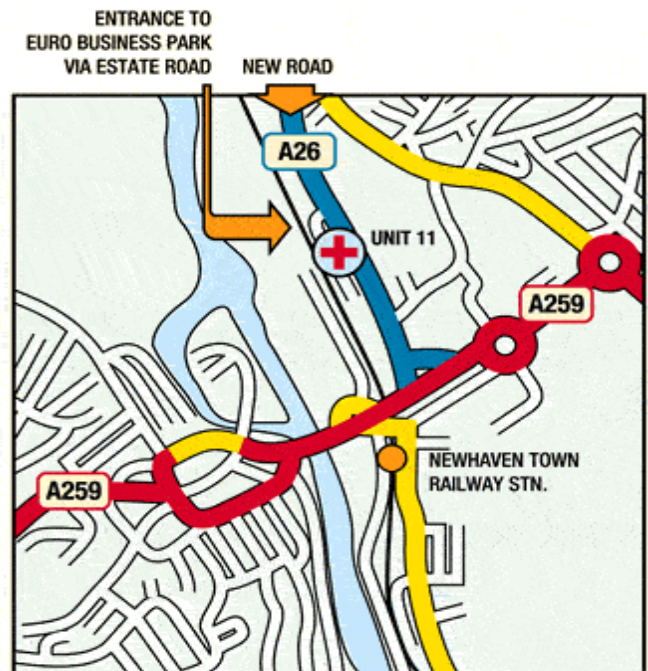
Felcon has been an ever growing business since 1971. By keeping up with an ever changing world and providing the highest standards possible, this gives Felcon their individuality and strength to provide not only professional worldwide equipment, but a step up against competitors.



FELCON, NEWHAVEN

History

- 1971 Founded as Fell Clean Air (1971) Ltd
- 1977 First overseas installation
- 1978 Formed Cleanroom Division
- 1988 Built first Robotic Wet Bench
- 1992 Buyout and restructuring as Felcon Ltd
- 1994 £multi-million Installation in Uzbekistan
- 1995 £multi-million Turnkey project in India.
- 1999 Purchased Goldsworth Medical Limited
- 2003 Management buyout resulting in present structure organised to focus on high quality equipment
- 2007 £multi-million Installation in Norway
- 2009 £million Installation in Oxford
- 2011 Management share ownership change
- 2014 Management Buy-Out
- 2015 Formed FelMed as endoscopy equipment supplier
- 2016 £half-million Installation in Saudi Arabia



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