



Manipulación de Sólidos

- Sistemas de Tránsito de Sólidos (PTS)
- Carga de reactores con atmósfera inerte / explosiva
- Carga y descarga de bidones, sacos y big-bags
- Sistemas de Mezclado de Sólidos (BatchMixer)
- Envasado Seguro de productos tóxicos, explosivos o alta potencia



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EQUIPOS PARA
LA INDUSTRIA
DE PROCESO Y
ALIMENTACIÓN





Tecnología de Tamizado

- Tamices vibratorios
- Cribas clasificadoras
- Tamices centrífugos
- Tamizadora por vacío y presión
- Estaciones descarga sacos con tamiz integrado
- Cribas lineales
- Tamiz por ultrasonidos



Tecnologías de Secado

- Lecho fluido Secador / enfriador
- Pasteurización / Esterilización continua de especias, hierbas y semillas
- Secador de banda para gelatinas
- Sistemas de deshumidificación de aire



Sistemas de Filtración

- Filtros de placas / autolimpiantes / cricket o bujías
- Filtros estándar y a medida de cartucho, bolsa, cesta, dúplex y consumibles de filtración
- Filtros de captación de polvo



Soluciones de Secado

- Secadores por atomización / Spray Drying
- Secadores Flash / Flash Drying
- Secadores de anillo / Ring Drying
- Secadores de haz tubular / Steam Tube Drying
- Prensas de tornillo / Screw Presses



Mezcla Estática

- Mezcladores estáticos por turbulencia
- Mezcladores estáticos en régimen laminar
- Intercambiadores de calor
- Sistemas de mezcla y reacción en continuo



Filtración Tangencial por membranas

- Micro, Ultra, Nanofiltración y Ósmosis Inversa
- Gran rango de membranas, para ajustar corte granulométrico o molecular según necesidades
- Posibilidad de trabajar con % sólidos grandes
- Posibilidad de trabajar con productos viscosos
- Sistemas automatizados
- Múltiples configuraciones y tamaños posibles
- Pruebas en laboratorio o casa cliente



Consumibles Filtración 2024/25



fitting your
separation needs



1

FILTRACIÓN DE LÍQUIDOS

10

FILTRACIÓN DE AIRE

22

EMISIONES

24

FILTRACIÓN TANGENCIAL

26

CARBÓN ACTIVADO

1 TIPOS DE CONEXIONES EN CARTUCHOS



Abierta (DOE)



Fibraza



PP, extensor de núcleo



Junta tórica interior 213



Plata (para 213)



222



222 (con inserto SS)



226



226 (con inserto SS)



Tapa plana




Alta



222 (3 pentafus)


2 CARTUCHOS DE PROFUNDIDAD PLISADA

SERIE PP




Los cartuchos de polipropileno plisado de la serie PP están diseñados para su uso en la mayoría de las aplicaciones donde se requiere filtración de partículas de **alta eficiencia**. Fabricado con materiales 100% de polipropileno y ensamblados utilizando los últimos equipos de unión térmica, La serie PP es un **filtro versátil**, excepcionalmente limpio y químicamente inerte para uso en todas las industrias. Disponible en eficiencias y clasificaciones de retención absolutas y nominales de 0.2 a 50.0 micras.

SERIE FG



Medios filtrantes de **microvidrio borosilicato** aprobados por la FDA que ofrecen una alta capacidad de retención, alta eficiencia y flujos excelentes. Usando una combinación de **vidrio reforzado** y base de polipropileno, materiales de soporte polipropileno y poliéster estos cartuchos son adecuados para muchas aplicaciones en todas las industrias. Disponible en ambas eficiencias de retención absolutas y nominales y clasificaciones de 0.2 a 50 micras.

SERIE FGE



Los cartuchos de polipropileno plisado de la serie PP están diseñados para su uso en la mayoría de las aplicaciones donde se requiere filtración de partículas de **alta eficiencia**. Fabricado con materiales 100% de polipropileno y ensamblados utilizando los últimos equipos de unión térmica, La serie PP es un **filtro versátil**, excepcionalmente limpio y químicamente inerte para uso en todas las industrias. Disponible en eficiencias y clasificaciones de retención absolutas y nominales de 0.2 a 50.0 micras.

Polisulfona



El medio filtrante de membrana polisulfona de alta pureza ofrece un **flujo excepcional** y una capacidad alta de carga por su estructura de poro altamente asimétrica. Es una elección preferida en aplicaciones que requieren la eficiencia de una membrana, y donde es importante una vida útil más larga y una caída de presión inicial mínima. Disponible como un material **hidrofilico o hidrofóbico**, esta membrana es una excelente opción tanto para líquidos y aplicaciones de filtración de aire.

Nylon 6,6 y Nylon 6,6 Plus +



Los cartuchos de membrana Nylon y Nylon Plus + alta pureza de Global Filter proporcionan excelente **retención de partículas** y limpieza para su uso en una variedad de aplicaciones de filtración. La membrana tiene la capacidad de pasar pruebas de integridad y también viene con la opción de **carga (Plus +)**. La membrana con carga permite que la captura de partículas, incluyendo bacteria y endotoxinas por debajo de la clasificación de micras indicada. Están construidas utilizando lo último en equipos de unión térmica, y disponible en múltiples grados y configuraciones.

PTFE



El medio filtrante de membrana PTFE **alta pureza** proporciona una resistencia química superior para uso en un amplio rango de aplicaciones industriales. Con índices de retención empezando de 0.01 micras (10 nanómetros), se logra una eliminación constante de contaminantes en condiciones agresivas, y fluidos y solventes orgánicos. También ofrece una **excelente hidrofobicidad**, lo que hace nuestro filtro una gran opción para evitar la humedad y otros contaminantes en el aire, el gas y aplicaciones de ventilación. Construido con lo último en equipos de unión térmica, y disponible en varios grados y configuraciones.

Meltblowns

Los múltiples grados de profundidad de fibras sopladas de Global Filter ofrecen una solución rentable, con densidad gradual para innumerables **aplicaciones en todas las industrias**. Construidos de 100% polipropileno o nylon, estos filtros ofrecen excelente compatibilidad química, alta capacidad de carga, y caídas bajas iniciales de presión. Disponible en **cualquier configuración de longitud y tapa final**..



Serie GRU-V unida con resina

Polietersulfona es **material hidrofílico** que se moja fácilmente para usar en aplicaciones de líquido. Este material ofrece altos flujos, baja unión a proteínas y la capacidad de pasar pruebas de integridad para el uso en aplicaciones críticas. Nuestra línea PES viene en múltiples grados con varios niveles de **prueba y certificación**, es uno de nuestros productos de membrana más **versátiles**. Con su construcción robusta de polipropileno unida térmicamente le permite tolerar al máximo en aplicaciones exigentes.



Filtros Encordados serie G

Los cartuchos encordados son filtros de profundidad de la serie G y son una opción **económica** para aplicaciones donde es necesaria la eliminación de sólidos de **alto volumen**. Disponibles en varias combinaciones de medio y materiales centrales y con la opción de tapas que mejoran el rendimiento. Estos filtros se adaptan fácilmente a **cualquier configuración** de portafiltro y puede tolerar una amplia gama de condiciones de proceso.. Disponible en configuraciones que cumplen con los requisitos de la FDA.



Serie HFB



Los cartuchos de la serie HFB son una excelente opción de **alta eficiencia** para aplicaciones que requieren **altos flujos** usando una huella pequeña. El cartucho utiliza los mismos medios filtrantes de nuestra serie de alta pureza PP y FG pero en una configuración que permite su uso en un portafiltro de bolsa tradicional. Diseñado con una dirección de flujo del centro hacia afuera y con capacidad de aguantar hasta 100 galones por minuto por cartucho el tiempo de inactividad por cambio de filtro y la posibilidad de contaminación al producto limpio esta reducida significativamente. Los **múltiples diseños** de tapas permiten adaptar a los portafiltros comunes.

Serie HF y HF3



Los cartuchos de **alto flujo** de las series HF y HF3 abordan la necesidad de una clasificación absoluta de filtración. El diámetro grande reduce la necesidad de usar muchos cartuchos, lo que se traduce en menos tiempo en mantenimiento y cambio de filtros. Disponible en medios **químicamente inertes** de polipropileno o micro vidrio, en clasificaciones de 0.45 a 100 micras, y longitudes de 20, 40 y 60 pulgadas. La serie HF está diseñada como un reemplazo directo de los elementos de Pall serie Highflow Ultipleat y 3M serie 740.

BOLSAS FILTRANTES PARA LÍQUIDO



Las **bolsas de filtro** ofrecen capacidades de filtración de partículas a granel en una amplia gama de clasificaciones, flujos y eficiencias, lo que las convierte en una excelente opción para filtración previa o final. Los medios disponibles incluyen fieltro tradicional, malla y microfibras de alta eficiencia, que permite al usuario adaptar la selección a su contaminante específico. Disponible en **tamaños estándar y personalizados**, se pueden configurar fácilmente para adaptarse a la mayoría de los porta filtros en el mercado. La línea de bolsas filtrantes de Global Filter cuenta con los materiales de fabricación más comunes en el mercado: **Poliéster, Polipropileno y Nylon**.

GSD Series



Los elementos filtrantes de profundidad de **disco apilado** de la serie **GSD** están contruidos a partir de celdas individuales de una mezcla de celulosa y tierra de diatomeas (DE). Cada celda está construida bajo compresión con juntas de borde de polipropileno y separadores. Se dispone de múltiples materiales de juntas para compatibilidad química en una amplia gama de aplicaciones de líquidos. Los elementos filtrantes de profundidad de disco apilados son ideales para aplicaciones que van desde laboratorio de baja capacidad hasta grandes volúmenes de producción, para la eliminación de sólidos o para proteger el equipo y la filtración de membrana aguas abajo. El DE presenta una **carga positiva** inherente que favorecen la retención de iones cargados negativamente y partículas causantes de niebla..



GSS Series

Los elementos de la serie GSS están fabricados íntegramente en **acero inoxidable 316L**, que no sólo proporciona una excelente solidez y resistencia en aplicaciones extremas, sino que permite ciclos de limpieza más sencillos y repetidos sin comprometer la integridad del producto. Disponibles en un rango de micras de 1,0 a 200,0 y con una retención de partículas de hasta el 99,0%, los elementos de la serie GSS están disponibles en **tres robustas configuraciones** para adaptarse a una gran variedad de aplicaciones: Malla tejida cilíndrica (SSC), tejido plisado (SSP) y tejido plisado sinterizado (SSSP).



CAP Series

Los **filtros de cápsula** están diseñados para **aplicaciones críticas** de filtrado de **pequeño volumen** en los mercados de revestimientos, química fina, productos farmacéuticos y microelectrónica. Contienen medios filtrantes plisados de clasificación absoluta que proporcionan una excelente retención de partículas a **caudales rápidos**. Su construcción en diferentes materiales ofrece una resistencia química y una durabilidad superior en aplicaciones diferentes.

Serie GFHD

Nuestros porta filtros con capacidad de un cartucho a la vez serie GFHD vienen en **acero inoxidable 304 o 316** y son fácil de usar. Vienen con la opción de aceptar múltiples estilos de tapas de cartuchos en 2.5 o 2.7 pulgadas. Disponible en longitudes de 5, 10, 20 y 30 pulgadas y clasificaciones de hasta 300 PSI, el GFHD es una elección versátil para muchas **aplicaciones de bajo flujo**. El sumidero con resorte de acero y múltiples estilos de cabeza hacen que los cambios sean más rápidos y fáciles en comparación con los productos competidores. Disponible en múltiples tamaños de entrada / salida y con o sin puertos para indicadores. Vienen con llave inglesa y herramienta de montaje.



Serie GTCH

Nuestros portafiltros de la serie GTCH ofrecen un **diseño robusto** de perno de giro y aceptan entre 3 a 51 cartuchos con longitudes de 10 a 40 pulgadas. Disponibles en acero inoxidable 304 o 316L con múltiples opciones de termino de superficie. La serie GTCH es una excelente opción de portafiltro para la filtración de **líquidos de alta pureza** con asientos universales que aceptan cartuchos de hasta 2.7 pulgadas de diámetro y tienen la capacidad de acomodar cartuchos DOE, 222 / planos o 222 / aletas permite al usuario reconfigurar fácilmente. Calificado para presiones de **hasta 150 PSI** y disponible con un sello opcional CÓDIGO ASME.



Serie GSTL

Los recipientes filtrantes para líquidos de cartucho **sanitario** de la serie GSTL son adecuados para una amplia variedad de aplicaciones de filtración en las que se requieren recipientes **completamente sanitarios**. El cierre de abrazadera de banda en V **facilita el acceso** para el cambio. Disponibles en acero inoxidable 316 y con una presión nominal de servicio de 150 psi.





Serie AFS (Farma)

Global Filter ha diseñado especialmente carcasas de filtros monocartucho para aplicaciones en condiciones sanitarias. Podemos ofrecer una gama de carcasas de filtros sanitarios de alta calidad en acero inoxidable. Los recipientes de la serie AFS han demostrado su calidad en las industrias farmacéutica y de bebidas.

Este filtro sólo puede utilizarse para líquidos o gases del grupo 2 (no peligrosos)..



AFL-1 (Polipropileno)

Global Filter (Filtration Group SAS) tiene una sola carcasa filtrante de plástico, la AFL1-P. Este housing es ideal para pequeños lotes que necesitan pulido. AFL1-P es una carcasa de tres piezas económica y diseñada para una amplia variedad de aplicaciones.

Serie GBFV8



Nuestros portafiltros para bolsas filtrantes individuales de tamaño estándar 1 y 2 de la serie GBFV8 están disponibles en acero inoxidable o acero de carbono y en múltiples configuraciones de entrada y salida. El diseño del **anillo en estilo "V"** y la canasta estándar fácilmente acomodan muchos tipos de filtros de bolsa con cualquier estilo de anillo o tapa, y con el beneficio adicional de ofrecer un sello positivo para garantizar que no haya sobrepaso de partículas especialmente en **aplicaciones críticas**. La tapa del portafiltro con perno de giro permite **cambios rápidos** y aguanta presiones nominales de 150 PSI. Las patas ajustables, y los puertos de drenaje, ventilación, y para indicadores son estándar.

Serie GMBE



Nuestros porta filtros de **multibolsas** de acero inoxidable o acero de carbono serie GMBE están diseñados para ofrecer una solución económica y de alta calidad para una variedad de aplicaciones de **alto flujo y altos volúmenes** de sólidos. El diseño de la placa de tubos con anillo estilo "V" proporciona un sello a presión seguro entre la tapa de la bolsa y la placa del tubo para asegurar contra el sobrepaso de partículas. Los portafiltros también aceptan tapas de anillo de acero o plástico. Disponible para acomodar entre 4, 6, 8 o 12 bolsas y capacidad de manejar hasta 2,400 galones por minuto y aguantar presiones de 150 PSI. También vienen con un brazo que soporta la tapa estilo pescante de volante para **cambios sencillos de bolsa**, al igual que los puertos para indicadores, drenaje y ventilación..

Serie GMBV

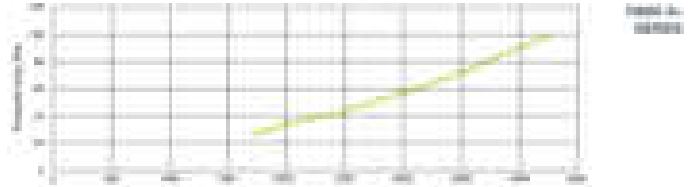


CÓDIGO ASME disponible en acero inoxidable 304 o 316. La tapa viene con cierre de perno de giro de alta resistencia con sujeción integral en el ensamblaje y viene con un brazo que soporta la tapa estilo pescante de volante para cambios y fácil, mientras que el diseño de anillo estilo "V" permite un **sello seguro** entre las bolsas y el anillo de retención. También acomoda a otros estilos de bolsas y no requiere cambios en la lámina del tubo o las canastas, lo que significa que se puede adaptar fácilmente a **cualquier proceso** que ejecute flujos hasta 2400 galones por minuto. Está clasificado para aguantar presiones de **hasta 150 PSI**. Los puertos para los indicadores, drenaje y de ventilación son equipos estándar



HQ Series

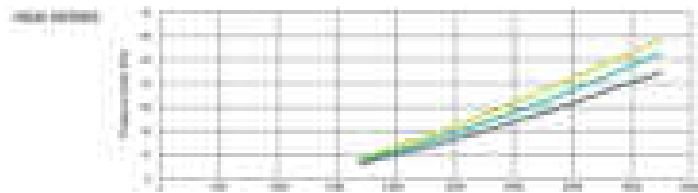
Filtros de bolsa de fibra de vidrio y marco metálico desde ePM10 70% hasta ePM1 85%. Con eficiencia energética hasta A+ Certificación EUROVENT. Amplia variedad de medidas, numero de bolsas, profundidad,



HS/HSB Series

Filtros de bolsa de fibra sintética y marco metálico Coarse 70% y 80%

Amplia variedad de medidas, numero de bolsas, profundidad,

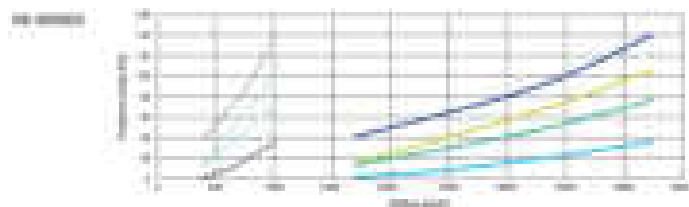


HD Series

Pre-Filtro de bolsas semirígidas de alta capacidad. Disponible en 3 eficiencias: Coarse 70%, coarse 90% y ePM10 70%

Marco de bicomponente de poliuretano

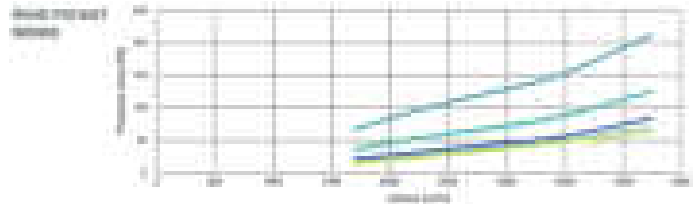
Perdida de carga de rotura 3000Pa



RIGID POCKET Series



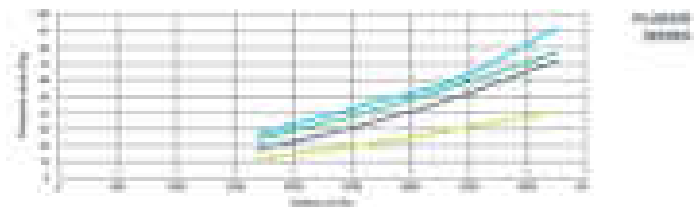
Filtro de bolsas semirígidas de alta capacidad. Disponible en varias eficiencias: desde ePM₁₀ 50% hasta ePM₁ 60%
 Marco de bicomponente de poliuretano – Inflamable K₁/F₁
 Perdida de carga de rotura 6000Pa



PLUSAIR Series



Filtro de bolsas semirígidas de alta capacidad. Disponible en varias eficiencias: desde Coarse 70% hasta ePM₁₀ 55%
 Marco de bicomponente de poliuretano – Inflamable F₁
 Perdida de carga de rotura 6000Pa



DROP SAFE Series

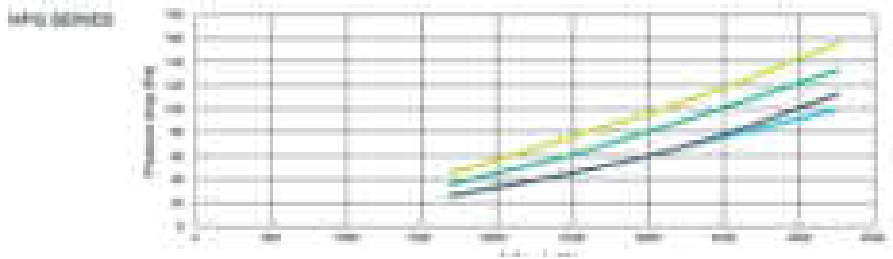


Filtro de bolsas semirígidas de alta capacidad. Disponible en varias eficiencias: desde Coarse 85% hasta ePM₁ 60%
 Marco de bicomponente de poliuretano – Inflamable F₁
 Perdida de carga de rotura 6000Pa



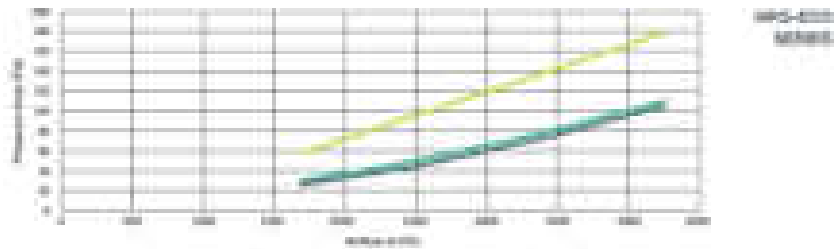
HPQ Series

Filtro de bolsas rígidas con 4 V. Desde ePM1 60% hasta eficacia EPA12 con clasificación energética A+ certificada por Eurovent.



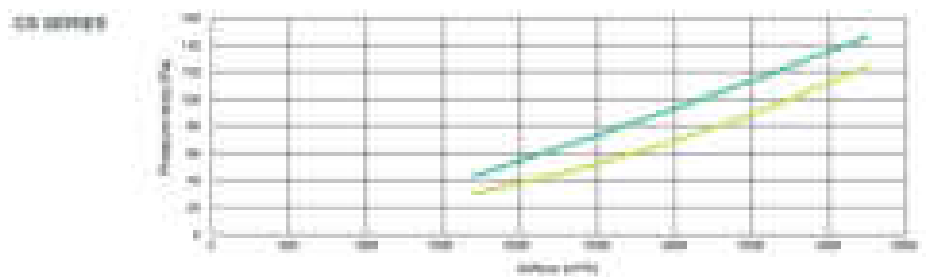
HPQ-ECO Series

Versión Eco de los filtro de bolsas rígidas con 3 V. Desde ePM2.5 55% hasta ePM1 80% con clasificación energética certificada por Eurovent.



CS Series

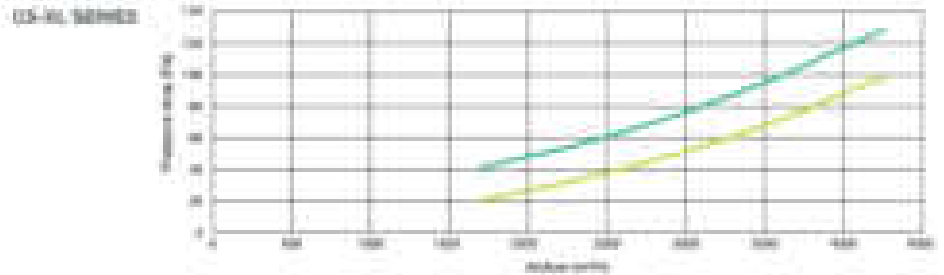
Filtro de bolsas rígidas con 4 V. Desde ePM1 55% hasta eficacia HEPA H-13 con clasificación energética B certificada por Eurovent.



CS-XL Series



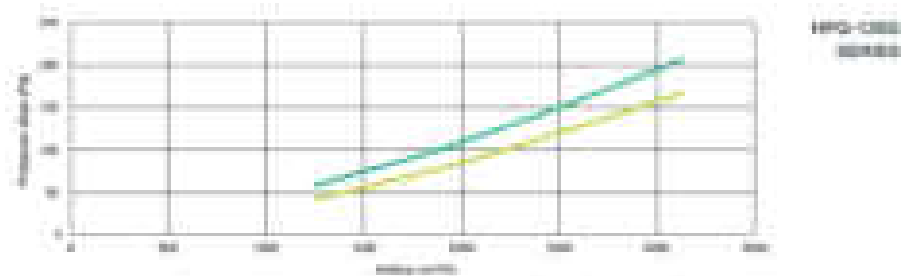
Filtro de bolsas rígidas con 4 V. Desde ePM₁ 60% hasta eficacia ePM₁ 80% con clasificación energética A+ certificada por Eurovent. Profundidad especial de 420mm. Para muy altos caudales



HPQ-135G Series



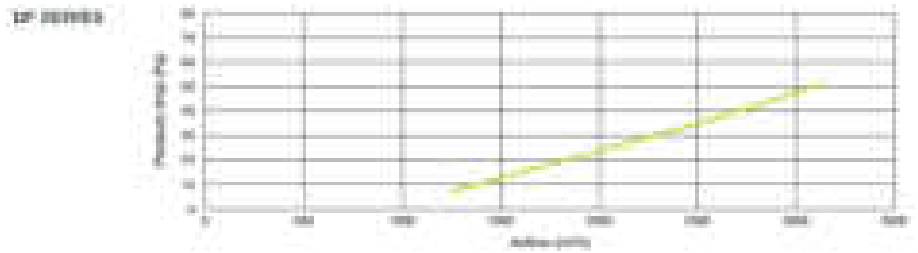
Filtro compacto plano 85 mm de profundidad. Disponible en 2 eficacias ePM_{2,5} 55% y ePM₁ 55%





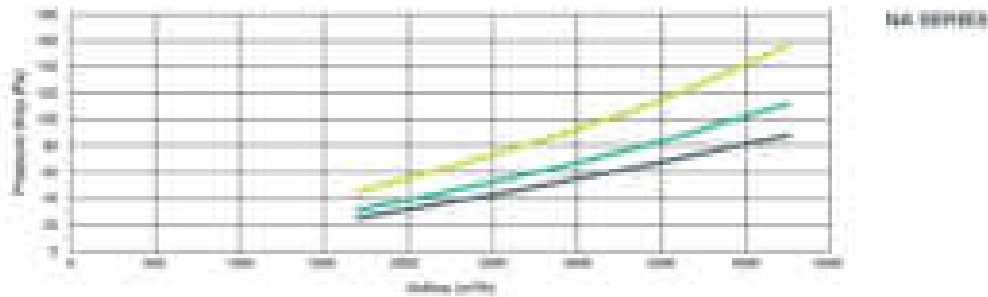
FANCOIL Series

Filtro para Fancoils fabricación a medida. Fibra sintética y marco de acero galvanizado.



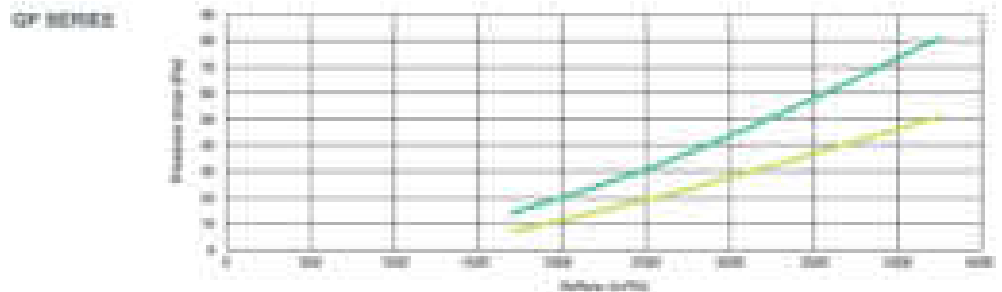
NA Panel Series

Pre filtro plano de oanel. Fabricao con marco metálico y media sintética. Junta de neopreno opcional. Coarse 30%, 50% y 60%



GP Panel Series

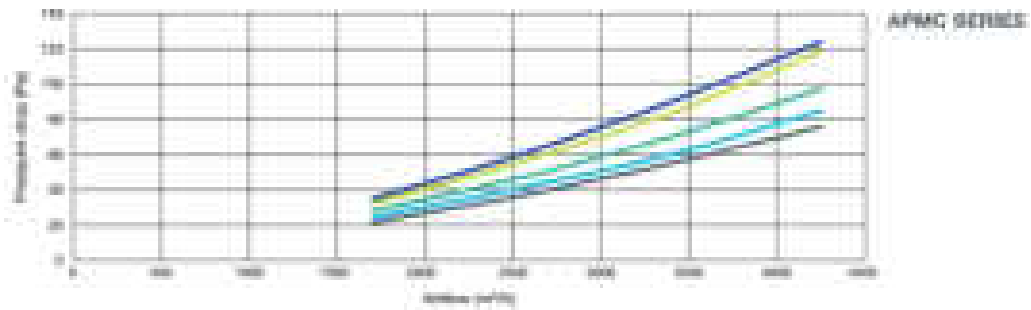
Prefiltro de marco de cartón y fibra de vidrio. Marcos de 1" y 2".
Max. Humedad relativa 90% - Max. Temperatra: 70 °C
Disponibile Coarse 30%& y 50%





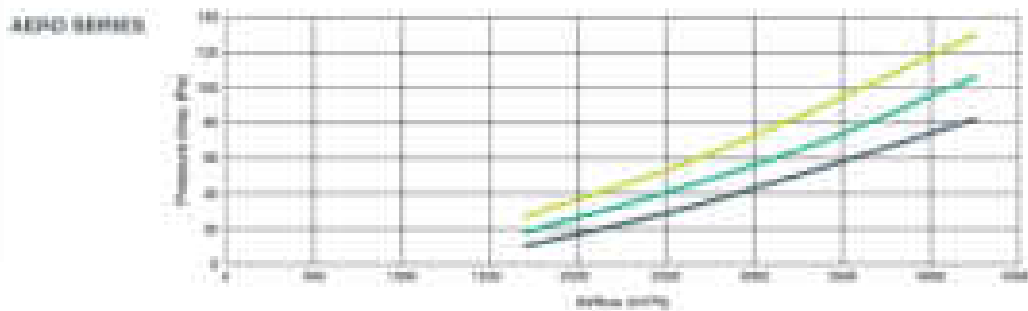
APMC Series

Pre-filtro plisado de fibra sintética y marco metálico. Doble rejilla. Opción ATEX - Coarse 70% y ePM10 50%. Baja pérdida de carga inicial



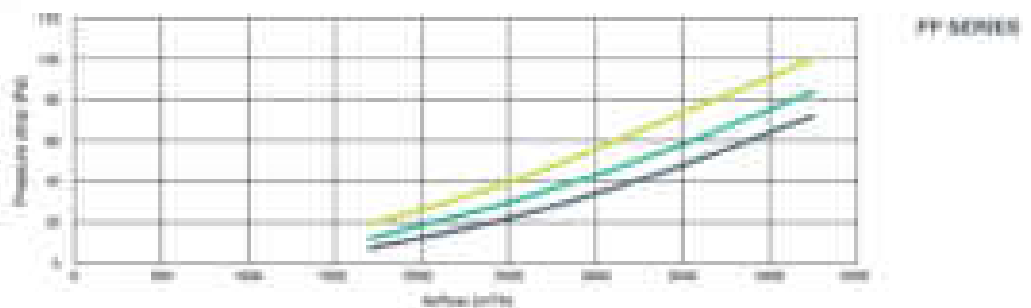
AERO Panel Series

Pre-filtro plisado de fibra sintética y marco cartón. Doble rejilla. Coarse 70% y ePM10 50%. Baja pérdida de carga inicial



FP Panel Series

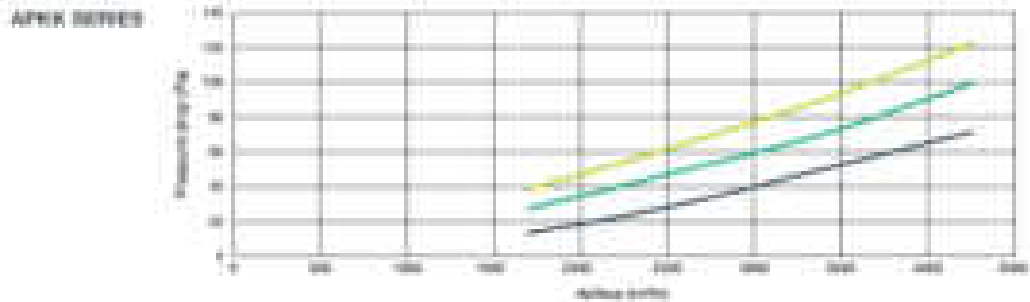
Pre-filtro plisado de fibra sintética y marco cartón. Doble rejilla. Coarse 70% y ePM10 50%. Baja pérdida de carga inicial Mayor superficie filtrante y vida útil que los Aeropanel Series



APKK Series



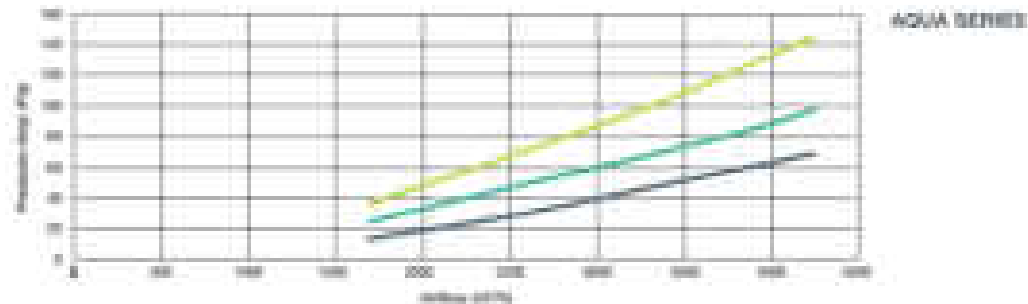
Pre-filtro plisado de fibra sintética+Poliéster y marco plástico.
Coarse 70% . Baja pérdida de carga inicial. Soportan la corrosión



AQUA Panel Series



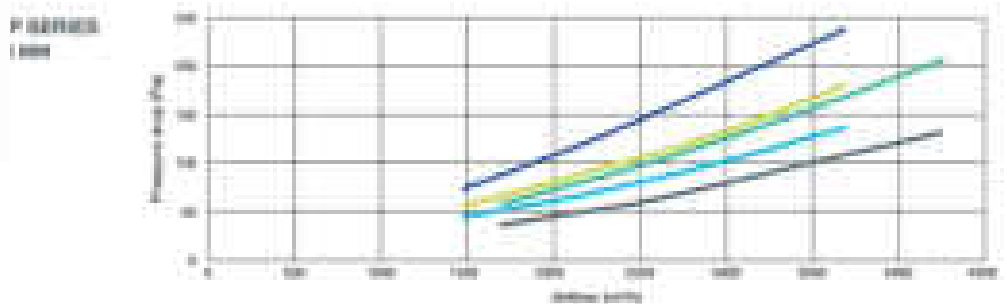
Pre-filtro plisado de fibra sintética+Poliéster y marco plástico.
Coarse 70% . Baja pérdida de carga inicial. Soportan la corrosión y resistentes al agua



CP/CPMC Panel Series



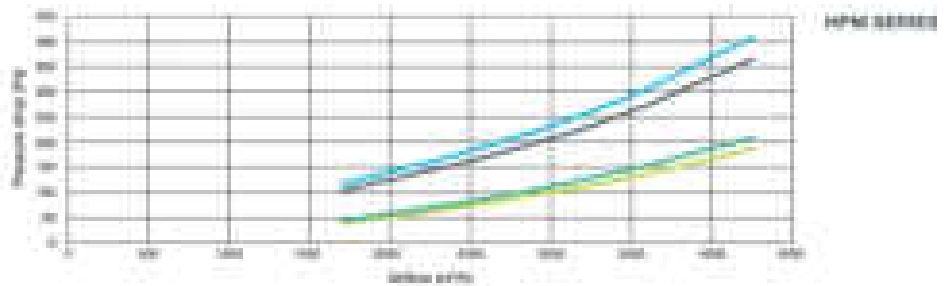
Filtro plisado de alta eficacia de fibra de vidrio y marco plástico/ o metálico. Desde ePM10 75% hasta ePM1 80% . Baja pérdida de carga inicial. La versión en marco de plástico soporta la corrosión.





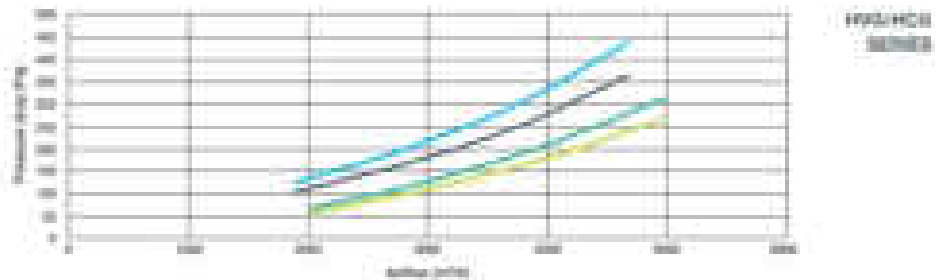
HPM Series

Filtro plano HEPA flujo turbulento para HVAC. Marco de MDF de E10 hasta H14. Junta continua. Certificado unitario



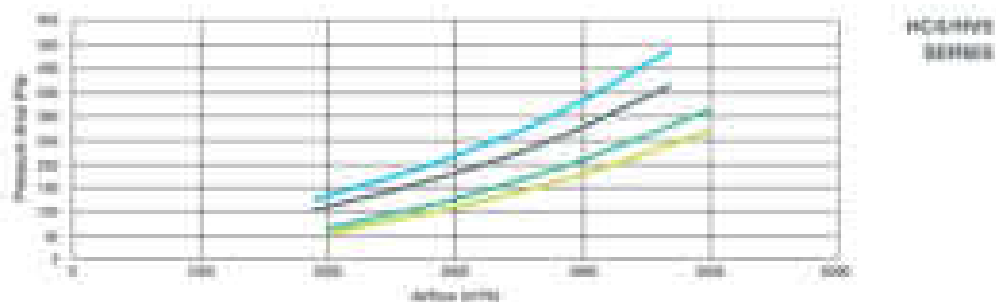
HVH/HCG Series

Filtro poliédrico de ALTO CAUDAL HEPA para HVAC. Marco de acero galvanizado. Desde E10 hasta H14. Junta continua. Certificado unitario. Opcional: ATEX y Alta Temperatura



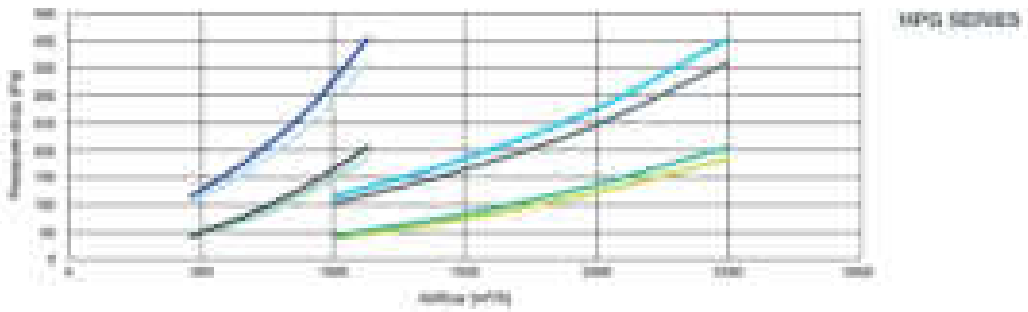
HCS/HVS Series

Filtro poliédrico de MUY ALTO CAUDAL HEPA para HVAC. Marco de acero inoxidable. Desde E10 hasta H14. Junta continua. Certificado unitario. Opcional: Alta Temperatura - Hasta 5,000 m³/h



HPG Series

Filtro plano HEPA flujo turbulento para HVAC. Marco de acero galvanizado de E10 hasta H14. Junta continua. Certificado unitario



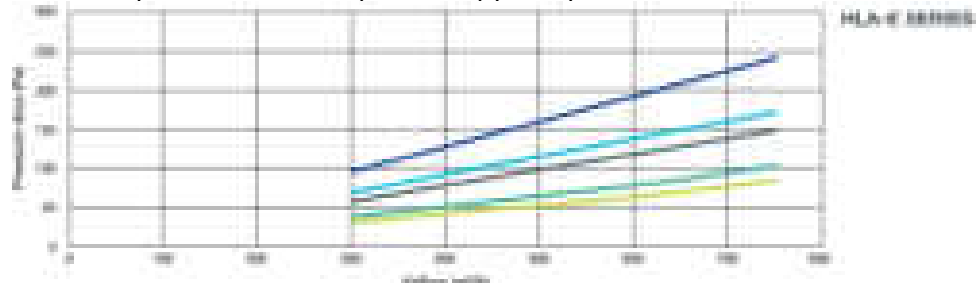
Filtración de aire en la Industria Farmacéutica





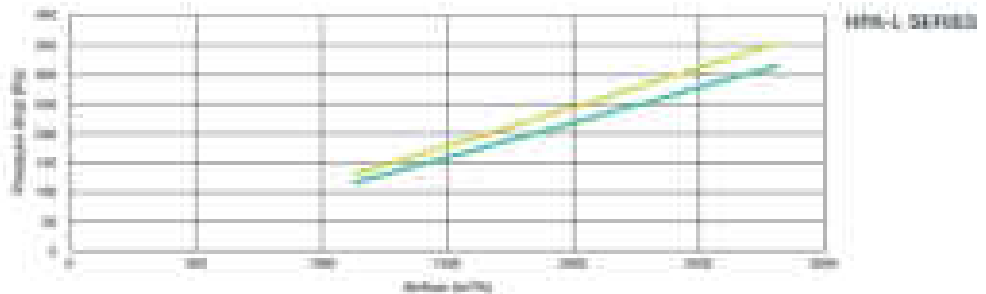
HLA Series

Filtro plano HEPA flujo laminar. Marco de aluminio de 68/80/90/110/102mm. Desde E10 hasta U15. Junta continua . Certificado unitario. Opcional: Alta temperatura / junta plana



HPA Series

Filtro plano HEPA flujo laminar. Marco de aluminio de 68/110/150 mm. Desde H13 hasta H14. Junta continua . Certificado unitario. ALTO CAUDAL



PB Series

Filtro diédrico HEPA flujo laminar. Marco de aluminio. Desde E10 hasta H14. Junta continua . Certificado unitario. ALTO CAUDAL

HL-PH

En entornos de salas blancas donde las limitaciones son cada vez mayores en términos de calidad, confiabilidad y seguridad, las campanas terminales juegan un papel importante en el control de contaminación y protección del medio ambiente ya sea en alimentos y bebidas, entornos farmacéuticos u hospitalarios. El diseño del HL-PH está especialmente adaptado para cumplir con los requisitos de los sectores farmacéutico, de alimentos y bebidas y industrias microelectrónicas, así como laboratorios y hospitales para la instalación de filtros HEPA en el suministro y extracción de aire en zonas que requieran control concentración de partículas.

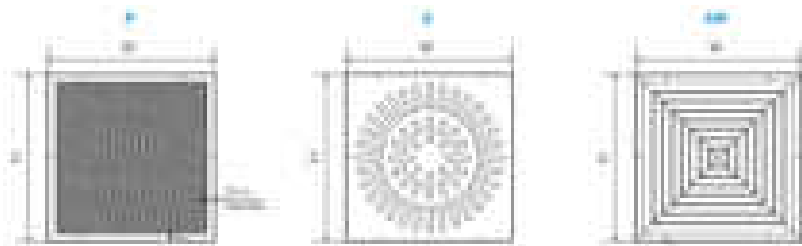
HD-CE

Desarrollado para zonas de riesgo 3 y 4 del sector hospitalario, esta es una solución modular. Se adapta a las dimensiones y limitaciones locales para garantizar un aire de impecable calidad. Construido en acero galvanizado pintado, combinado con un plenum con soportes de filtro montados en fábrica, así como un plano hermético dibujado en 1 pieza para cada celda filtrante, para garantizar un sellado perfecto. Para facilitar la inspección, validación y control de los filtros, el techo HD-CE está equipado al 100% y Puertos de validación. Finalmente se pueden retirar las rejillas de difusión perforadas mediante pestillos de $\frac{1}{4}$ de vuelta (o tornillos de bloqueo de $\frac{1}{4}$ de giro) y el área cubre toda la superficie para evitar zonas muertas.

HL-HD

Las unidades terminales HL-HD se utilizan para el suministro o extracción de aire en salas blancas.

Pueden estar equipados con varios tipos de rejillas de difusión. Su fácil mantenimiento se realiza desde el interior de la sala.



SF-CH



La unidad de contención SF-CH está diseñada para instalarse en sistemas de escape, donde existe riesgo de contaminación del medio ambiente con microorganismos, sustancias activas peligrosas, polvo nocivo u otras partículas. La unidad SF-CH es equipada con una bolsa de plástico perfectamente impermeable. Está diseñado para eliminar y sustituir el filtro contaminado con total seguridad y sin riesgo para el operador. BIBO



HOLDING FRAMES



Portafiltros metálicos para ajuste de los filtros, todas las medidas. Tipo HVAC y especial para HEPA.

Es imprescindible observar las siguientes reglas al instalar marcos de soporte:

- Si se deben montar varios marcos uno al lado del otro, se recomienda también proporcionar refuerzo adicional.
- Una vez instalados los marcos, se debe aplicar sellador alrededor de los bordes para evitar cualquier fuga.

Medio filtrante en base Poliéster



Ti 15



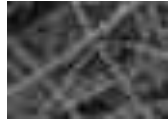
Ti 08



Ti 56/2



Ti 07/1



Ti 69



Ti 201



Ti 2011

Medio filtrante en base Celulosa



Ti 70



Ti 10



Ti 19/2



Ti 205



Ti 206

Medios filtrantes especiales (Fibra de vidrio, PPS, PP...)



Ti 18/1



Ti 26



Ti 35



DRG5N



Filtros cónicos



Los cartuchos filtrantes de polvo FGI **plegados en estrella** se utilizan para separar **las partículas más pequeñas** de los gases. El gas cargado de polvo atraviesa el cartucho filtrante montado verticalmente desde el exterior hacia el interior y sale por la tapa superior abierta. Los esfuerzos de optimización relativos al flujo y la resistencia han dado lugar a la **forma cónica** del elemento. La limpieza de los cartuchos filtrantes con la boquilla multichorro FGI **extra silenciosa** es mucho más eficaz que con las boquillas convencionales. El mejor comportamiento de limpieza en comparación con los cartuchos filtrantes cilíndricos y las condiciones de flujo más favorables se traducen en un **rendimiento** hasta un **30% superior** de los equipos de desempolvado.

Filtros Cilíndricos



Los cartuchos filtrantes de polvo FGI plegados en estrella se utilizan para separar el polvo del aire y los gases en prácticamente todos los sectores de la industria. La **alta calidad** de los cartuchos filtrantes de polvo FGI se mantiene constante mediante **inspecciones regulares y exhaustivas** del rendimiento de los materiales que entran en producción. También se realizan pruebas de aplicación en nuestros bancos de pruebas del laboratorio de desarrollo y en instalaciones in situ.

Mangas antiestáticas



Fabricadas en poliéster 100% antiestático

Permeabilidad: 4.000 lt/dm²/h (Dp:200 Pa)

Espesor: 2,5mm

Proceso de calandrado y mirada, impregnación hidrófoba repelente al agua y al aceite

Temperatura de trabajo: 150 °C

Mangas filtrantes



Se prefieren las bolsas de filtro de poliéster porque son económicas y funcionan sin problemas en muchas condiciones industriales. Aunque tiene una alta resistencia a los disolventes y a los óxidos, su resistencia a los ácidos también es moderada. Existen valores de peso como 400, 500, 525, 550, 600 gramos por metro cuadrado. La bolsa filtrante, que contiene 100% poliéster, tiene una textura interior y es resistente a roturas y estiramientos.

Permeabilidad: 11.000-14.000 lt/dm²/h (Dp:200 Pa)

Espesor: 2,0 mm

24 FG-SPIRACORE (MEMBRANAS ESPIRALES)



Las membranas espirales de PCI membranes, sirven para microfiltración, ultrafiltración, nanofiltración y ósmosis inversa y están fabricadas con la más alta tecnología para el tratamiento de aguas, alimentos, bebidas y aguas residuales industriales.

- Separación selectiva: FG-SpiraCore™ Dura puede eliminar eficazmente disruptores endocrinos, antibióticos, precursores de subproductos de la desinfección y trazas de contaminantes orgánicos en el agua, y puede retener algunos minerales.
- Alta tasa de recuperación: La recuperación en una sola etapa es de hasta el 90% y la recuperación del sistema es de hasta el 98%, lo que supone más de un 15% más que la membrana de ósmosis inversa tradicional.
- Baja presión de funcionamiento: la presión de funcionamiento es de 0,3-0,7 MPa, más de un 30% inferior a la de la membrana de ósmosis inversa tradicional, dependiendo de la aplicación específica..

MATERIAL	TAMAÑO PORO	ESPESOR DEL ESPACIADOR (mm)	PRESIÓN MÁXIMA (bar)	Tº máxima	RANGO DE PH OPERATIVO
PS	0.1 µm	31/46/65	13.8	Operación:50 Limpieza: 85	2-10
PES	5 kDa / 10 kDa/ 10 kDa	31/46/65	13.8/41.4	Operación:50 Limpieza: 85	2-10
PA	100 Da / 150 Da/ 300 Da	31/46/65	13.8/41.4/82.7	Operación:50 Limpieza: 85	2-10



Las membranas tubulares son especialmente adecuadas para fluidos con alta viscosidad y/o sólidos en suspensión, ya que son altamente resistentes al bloqueo. Los requisitos de pretratamiento son mínimos, una ventaja que hace de las las membranas la opción más rentable para muchos sistemas pequeños.

Membrane Type	Material	Dimensions	Flow (l/h)
4000	Aluminum Alloy / Polypropylene	0.25m x 0.25m	20
4025L 4030	Aluminum Alloy	0.25m x 0.25m	20
4040	Aluminum Alloy	0.25m x 0.25m	20
4050/4055 Hydrophobic Membrane UPVC/PP	Chemical Resistant Aluminum Alloy	0.25m x 0.25m	20

Type	Application	Length	Outside	Membrane Area	Flow (l/h)
4000	Water	0.25m	0.25m	2.5m²	20
4025	Water	0.25m	0.25m	2.5m²	20
4040	Water	0.25m	0.25m	2.5m²	20
4050/4055	Water	0.25m	0.25m	2.5m²	20
4025L 4030	Water	0.25m	0.25m	2.5m²	20
4040	Water	0.25m	0.25m	2.5m²	20
4050/4055	Water	0.25m	0.25m	2.5m²	20
4025L 4030	Water	0.25m	0.25m	2.5m²	20
4040	Water	0.25m	0.25m	2.5m²	20
4050/4055	Water	0.25m	0.25m	2.5m²	20
4025L 4030	Water	0.25m	0.25m	2.5m²	20
4040	Water	0.25m	0.25m	2.5m²	20
4050/4055	Water	0.25m	0.25m	2.5m²	20



Carbon Cylinder

Este filtro de carbón activado está diseñado para absorber pequeñas cantidades de gases impurezas (<100 ppm vol.) En concentraciones más altas, existe riesgo de combustión. Para obtener instrucciones sobre el uso de estos filtros, consulte la instalación adjunta e instrucciones de mantenimiento.

Rellenable

Alta capacidad.: 250mm hasta 600 mm

AC 12



Carbón activado: Carbón activado genérico M-carb. Se utiliza carbón impregnado específico R-CARB/S-CARB para museos y archivos

Marco de acero galvanizado y junta continua

Hasta 3,9 kg de carbón

Activated carbon panel



Carbón activado: Carbón activado genérico M-carb. Se utiliza carbón impregnado específico R-CARB/S-CARB para museos y archivos

Marco de acero galvanizado y junta continua

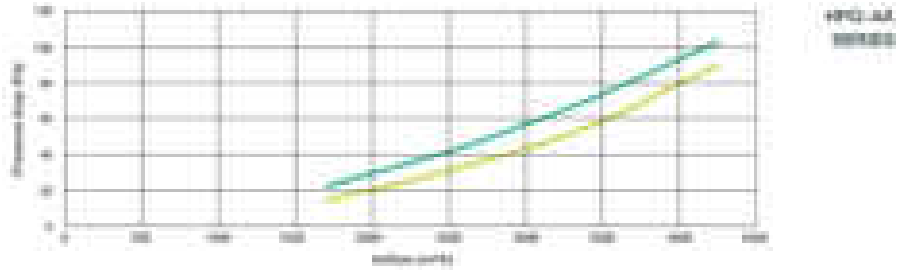
Hasta 7,8 kg de carbón



HPG-AK Series

Filtro compacto poliédrico de fibra sintética impregnada de carbón activado.

Eficacia : Coarse 80% y ePM10 60%



HF Activated Carbon

Porta filtros de acero galvanizado para la instalación de Carbon Cylinder.

Varias medidas: desde 4 hasta 16 cartuchos

Opcional: Acero inoxidable

GCCB+

Cartuchos de carbón serie GCCB+ están diseñados para eliminar el sabor, el olor, cloro, color e impurezas orgánicas no deseadas del agua potable y otras soluciones acuosas.

El carbono de matriz fija de alta porosidad maximiza capacidad de adsorción manteniendo la excelente eliminación de sedimentos.

Fabricado íntegramente con materiales aptos para alimentos/agua.



Descubre la versátil gama de consumibles **Caperva Filtration**: desde filtros de aire y filtración molecular, hasta prácticas cápsulas de un solo uso. Además, contamos con filtros especializados para carburantes y una amplia selección de opciones. ¡Encuentra todo lo que necesitas para tus necesidades de filtración en Caperva Filtration!



Filtración molecular



CFE Compact filter



Pocket filters



Filtros de gas

[CONTACTA CON NUESTROS EXPERTOS](#)



Productos fabricados con materiales de alta calidad, aplicando rigurosos estándares y pruebas exhaustivas para garantizar su durabilidad y fiabilidad.



Efficiente sistema de gestión que nos permite reducir los tiempos de fabricación y una logística ágil para garantizar entregas rápidas.



Colaboramos con compañías de transporte confiables y rápidas, asegurando la entrega en el menor tiempo posible y ofreciendo opciones de envío exprés para satisfacer las necesidades urgentes de nuestros clientes.



Amplio inventario para satisfacer rápidamente la demanda de los clientes, asegurando disponibilidad suficiente de productos y con la posibilidad de crear stock en consigna.

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VETTERTEC SPRAY DRYING TECHNOLOGIES

Perfectly adapted to your individual requirements



ADVANCED TECHNOLOGY WITH A LONG TRADITION

Since 1930, VetterTec is a specialist in the design, manufacturing and supply of industrial drying plants. Today, we are a one-stop supplier of industrial drying solutions, including dewatering and evaporation equipment – from R&D-scale and standalone equipment to fully integrated solutions. During the last decades, our equipment and systems have achieved a worldwide reputation for quality, reliability and return of investment.

Since 1984 we are realizing spray drying projects all over the world, in e.g. the food, dairy and chemical industries. With locations in Germany, Great Britain, North America, Russia and China as well as representatives in 12 further countries we implemented more than 180 spray dryer systems until today.

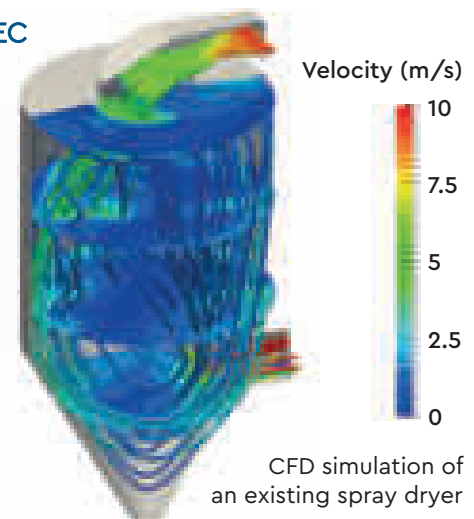


CUSTOMIZED SOLUTIONS – EXPECT MORE FROM VETTERTEC

Our experienced team of spray drying experts is always dedicated to developing the best solution for the specific needs of our customers, e.g. dust-free powder, agglomerated powder etc.

With our deep know-how in particle engineering, our customers are always getting particles of the desired powder characteristics.

For tests and product developments, own test drying facilities are available in Germany and North America.



FROM PILOT PLANTS TO INDUSTRIAL UNITS

VetterTec provides a full range of spray drying systems and services

- ✓ complete supply of spray drying systems from reception bin to powder outlet
- ✓ proven solutions adopted to customers' needs
- ✓ precise engineering and manufacturing
- ✓ project management from kick-off to commissioning
- ✓ expertise in atomization and particle engineering



Internal fluid bed



External fluid bed

- ✓ plant and process optimization
- ✓ atomization systems (rotary and nozzle)
- ✓ test centers for customer trials and application development
- ✓ CFD simulations
- ✓ upgrades and retrofits
- ✓ customer service, after-sales
- ✓ training and seminars

We are managing your project from engineering until startup.



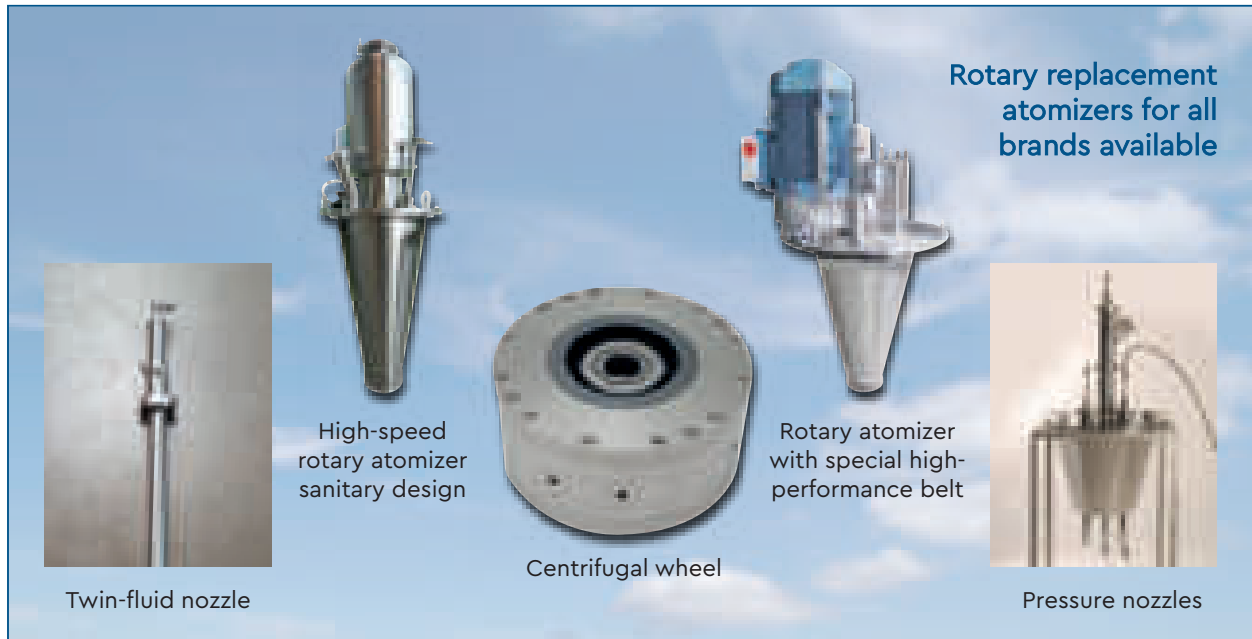
Pilot plant with homogenizer and safety equipment



Industrial plant in chemical industry

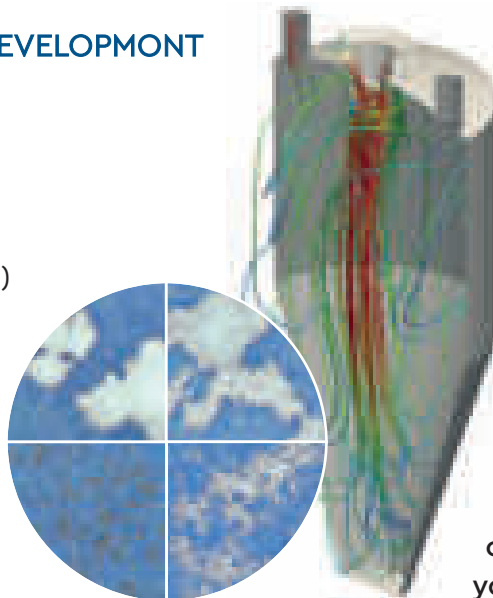
ATOMIZATION SYSTEMS AND PARTICLE DESIGN

VetterTec supplies the complete range of atomization systems: rotary atomizers with a broad range of special wheels as well as high-pressure nozzles and twin-fluid nozzles. In addition to our own rotary dryer solutions, we also supply parts and complete atomizer retrofits for other brands.



PARTICLE DESIGN AND DEVELOPMENT

- ✓ dust-free powder
- ✓ size and shape (form)
- ✓ solubility
- ✓ sinkability
- ✓ particle size (distribution)
- ✓ bulk density
- ✓ agglomerated or non-agglomerated



Deciding for VetterTec means opting for a reliable partner, whose drying experts ensure, that your particles get exactly the right characteristics for your needs.



RELIABLE OPERATION FOR MANY APPLICATIONS

VetterTec spray dryers offer high flexibility of design. Direct or indirect heating systems are supplied depending upon industry standards. Inlet temperatures may range from 100°C for very heat sensitive products up to 750°C for some inert chemicals.

Closed circuit and self-inertized dryers are supplied to allow organic solvents to be removed while meeting all environmental requirements. Different chamber configurations are used allowing a range of residence times to provide the desired particle size and moisture content in the finished powder.

Agglomerated products, which are widely used in the food industries, are produced by using integrated fluid beds, fines recycle systems and external fluid beds.

VETTERTEC SPRAY DRYERS are operating in the following Applications:

Food Industry

- ✓ whey
- ✓ protein concentrates (fish, collagen, gelatin)
- ✓ flavours
- ✓ food dyes
- ✓ soups
- ✓ food supplements
- ✓ glucose syrup
- ✓ animal feed
- ✓ enzymes



Starch and Brewery Industry

- ✓ starch
- ✓ maltodextrin
- ✓ yeast
- ✓ vegetable proteins (soya, sunflower seeds)
- ✓ biochemical proteins



Chemical Industry

- ✓ polymers (plastics)
- ✓ acrylic
- ✓ carbonates
- ✓ carbides
- ✓ ceramics
- ✓ pigments
- ✓ metal powder
- ✓ silica
- ✓ dyestuff
- ✓ herbicides



Do you miss your application? Feel free to contact us: We have several test facilities – also for food grade products, which meet highest hygienic standards. Combined with our long-term experience we would be pleased to consult for the best drying result of your product.

We are your preferred partner for spray drying and product engineering.
Benefit from VetterTec's spray drying expertise and high flexibility of design.

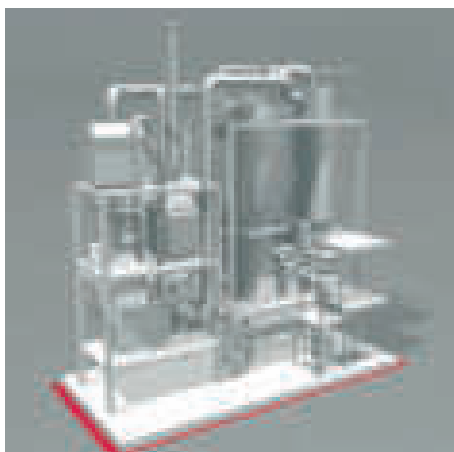
SPRAY DRYER VETTERTEC CIRRUS NSD SERIES

SPRAY DRYING SYSTEM WITH NOZZLE ATOMIZER

The atomization takes place by a high-pressure nozzle or a twin-fluid nozzle in co-current laminar airflow, introduced via a special air distributor on the top of the drying chamber.

Evaporation rate: from 70 up to 11000 kg/h
Chamber diameter: from 2.5 up to 10 m

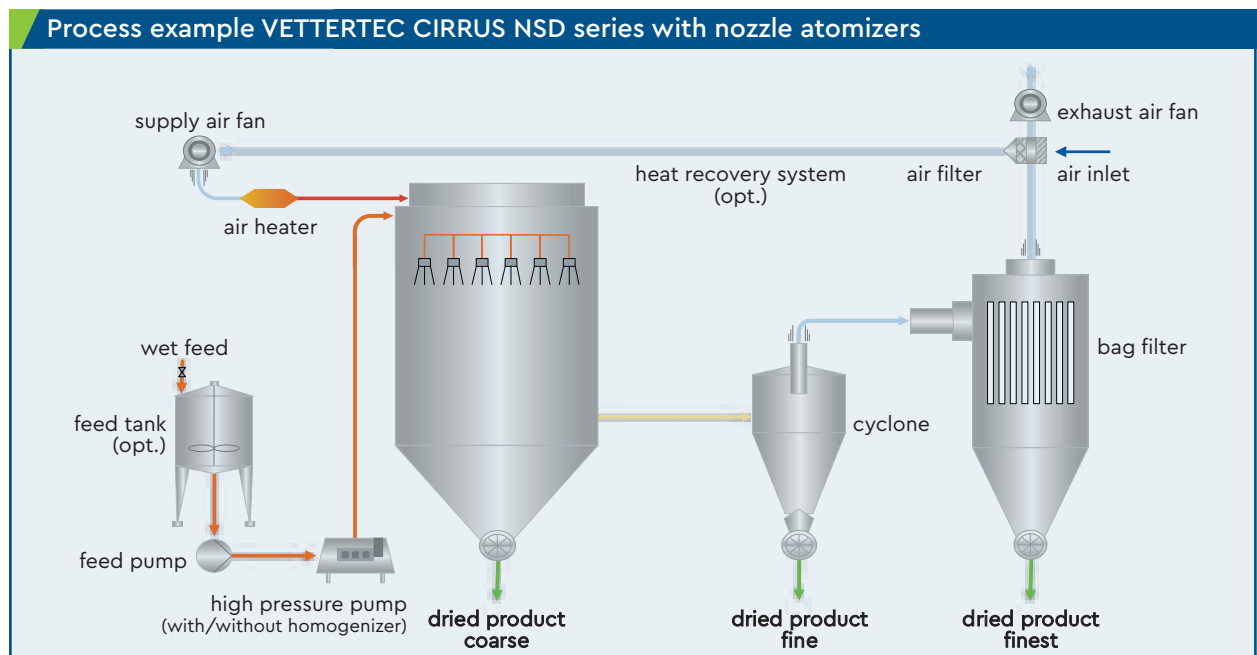
- ✓ Specially designed for non-agglomerated particles
- ✓ Large cylindrical chamber for bigger particles
- ✓ Main part of the powder is discharged at the chamber bottom
- ✓ Product can be further dried or cooled in an external fluid bed



SPECIAL FEATURES

- ✓ External fluid bed
- ✓ Air brooms
- ✓ Side air outlet
- ✓ Fluid bed agglomeration
- ✓ Product cooling systems
- ✓ Integrated homogenizing
- ✓ Mirror-polished surface (optional)

SPRAY DRYER CIRRUS NSD for babyfood ingredients



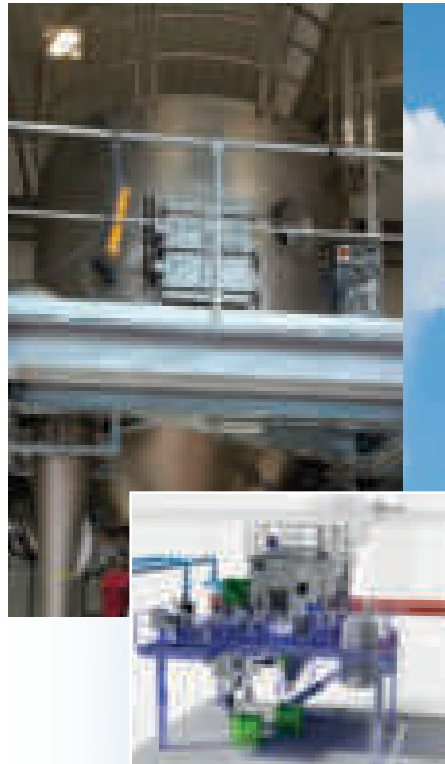
SPRAY DRYER VETTERTEC INCUS RSD SERIES

SPRAY DRYING SYSTEM WITH ROTARY ATOMIZER

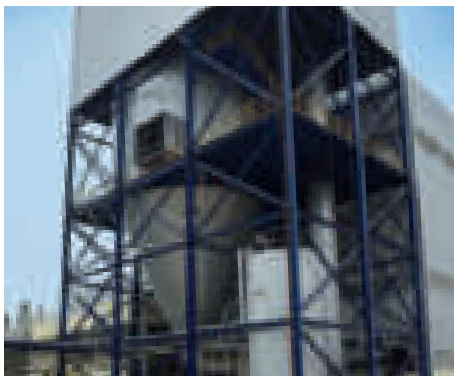
The atomization takes place by a rotary atomizer (disc atomizer) in co-current airflow, introduced via a special air distributor on the top of the drying chamber.

Evaporation rate: from 60 up to 11000 kg/h
Chamber diameter: from 2.5 up to 13 m

- ✓ Specially designed for abrasive, high-concentrated, highly viscous particles
- ✓ Powder characteristics can be adapted by adapting different disc designs
- ✓ Product can be further dried or cooled in an external fluid bed



SPRAY DRYER INCUS RSD in the chemical industry for ceramic oxide/metal powder (inorganic pigments)

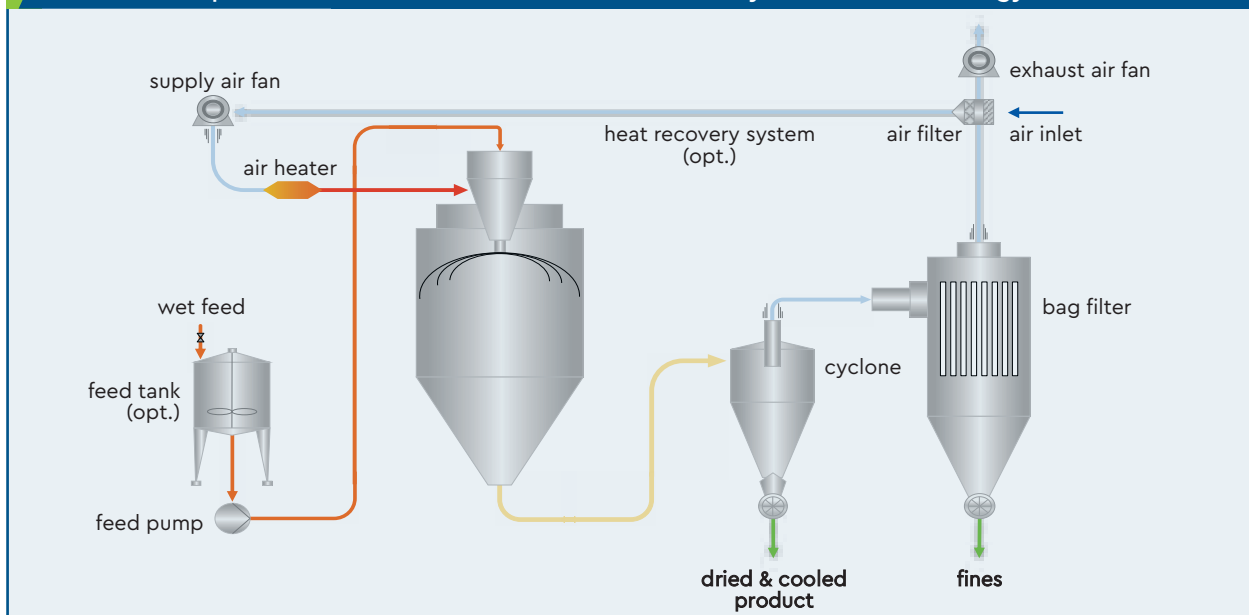


Spray dryer INCUS RSD in the starch industry for alcoholic yeast

SPECIAL FEATURES

- ✓ External fluid bed
- ✓ Air brooms
- ✓ Side air outlet
- ✓ Fluid bed agglomeration
- ✓ Product cooling systems

Process example VETTERTEC INCUS RSD series with rotary atomizer technology



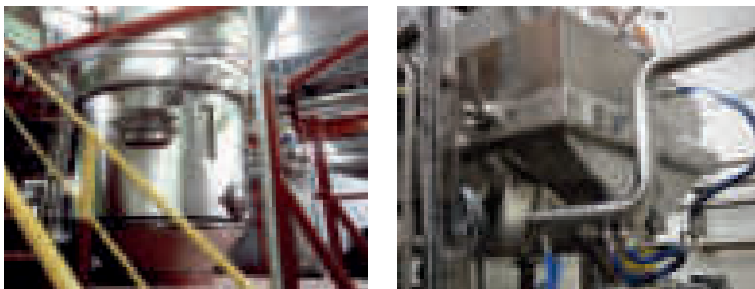
SPRAY DRYER VETTERTEC CUMULUS 3SSD SERIES

3-STEP SPRAY DRYING SYSTEM WITH INTERNAL AND EXTERNAL FLUID BED

The atomization takes place by a high-pressure nozzle atomizer in co-current airflow, introduced via a special air distributor on the top of the drying chamber. Internal and external fluid beds are added for fines removal and after drying. A versatile fines return system provides the necessary flexibility to control the degree of agglomeration by selecting the location of the fines injection back into the drying process.

Evaporation rate: from 70 up to 11000 kg/h
Chamber diameter: from 2.5 up to 13 m

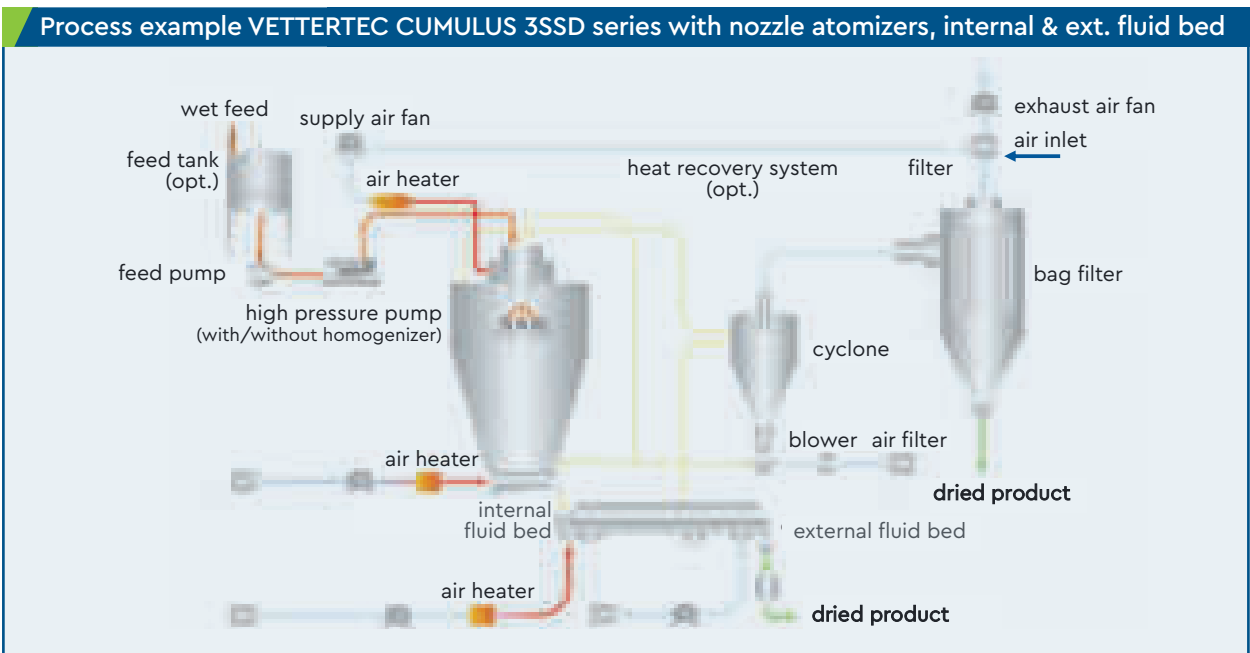
- ✓ Specially designed for agglomerated free flowing, dust-free powder with high mechanical strength
- ✓ Mixed air flow
- ✓ With internal and external fluid bed for further drying, cooling and agglomeration



SPRAY DRYER MULUS 3SSD in the starch industry for maltodextrin with external fluid bed

SPECIAL FEATURES

- ✓ Internal fluid bed
- ✓ External fluid bed
- ✓ Air brooms
- ✓ Top or side air outlet
- ✓ Fluid bed agglomeration
- ✓ Product cooling systems



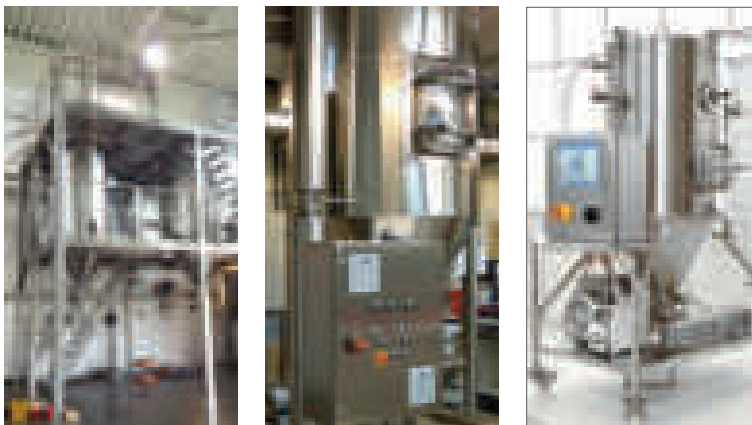
SPRAY DRYER VETTERTEC EXPERO SDL SERIES

LAB SIZE SPRAY DRYING SYSTEMS

Our lab size dryer is designed to investigate multiple operation conditions, allowing reproducible powder production at a laboratory scale. The EXPERO SDL series is suitable for performing product testing prior to large scale production or if only small powder quantities are required.

The atomization takes place via nozzle, twin-fluid nozzle or rotary (disc) technology or combined atomizers in co-current airflow, introduced via a special air distributor on the top of the drying chamber.

Evaporation rate: from 1 up to 70 kg/h
Chamber diameter: from 0.6 up to 2.5 m



© Fraunhofer

SPRAY DRYER EXPERO SDL-06 in pilot plant for chemical products

ADAPTIVE DESIGN TO MEET CUSTOMER NEEDS

Same base frames, but different equipment, e.g. air distributor, internal fluid bed, filter, tri-clamp connections, bivalent air distributor, hoses, etc.

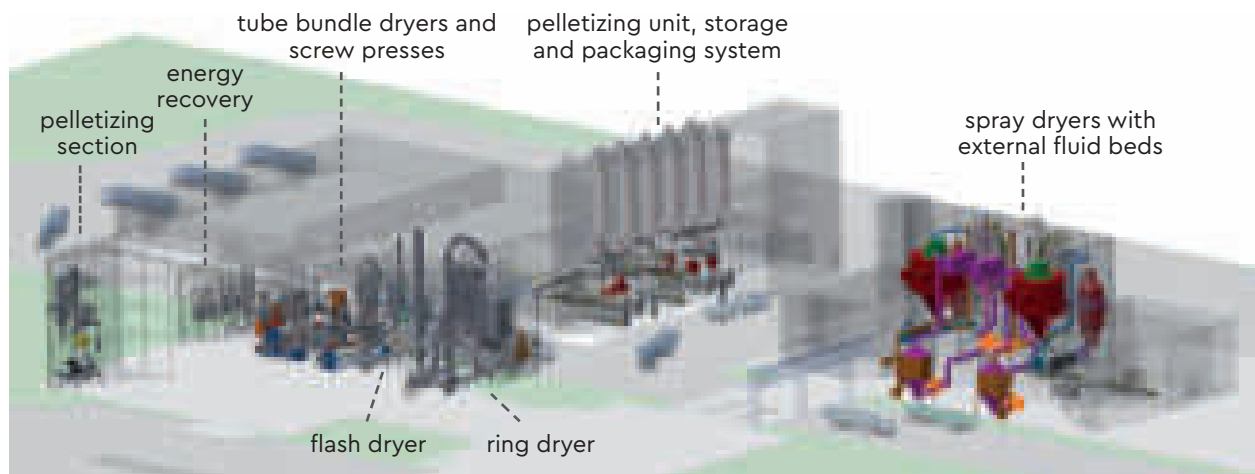
VETTERTEC EXPERO SDL series



ENGINEERING AND SUPPLY OF COMPLETE SYSTEMS

VetterTec is a one-stop supplier of dewatering and industrial drying solutions, from R&D-scale and standalone equipment to fully integrated production lines and continuous manufacturing systems — for sophisticated liquid, powder and bulk solid production processes in the starch, food, chemical, bioethanol/alcohol, brewery and many other industries.

VetterTec is able to act as strategic development partner and system or equipment supplier depending on customers' needs.



Engineering example: corn starch production plant

VetterTec's systems and equipment are renowned for their robust design, engineering, process quality and efficiency. Ranging from fluid bed dryers, flash and ring dryers, industrial spray dryers, through to tube bundle dryers, evaporators, presses and brewery conveyors and storage equipment, customers have a **wide range of flexible and fully customizable solutions** to choose from.



Our experienced process engineers will assist you in optimizing your performance, timely and efficiently. Our clients count on our service organization to optimize their ROI using VetterTec's customized solutions. Over 3500 reliably operating drying solutions and systems supplied worldwide, confirming our slogan **SUCCESSFUL DRYING SYSTEMS.**



Contact us:

Our drying experts will always find the best solution that suits your specific needs.

WE CARE!

SAFETY SYSTEMS



Spray dryers in general have high requirements on safety. VetterTec experts are working hand in hand with safety component experts and have the proven specific know-how to implement the required system in accordance with all relevant safety requirements. All our dryers fit to the latest safety standards. **If you do have already an existing dryer, don't hesitate to contact us, we have suitable safety retrofit solutions available.**

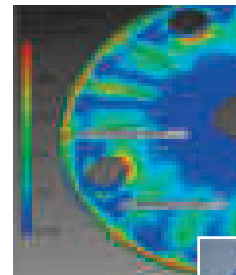
We also supply closed cycle systems for high explosion sensitive products.



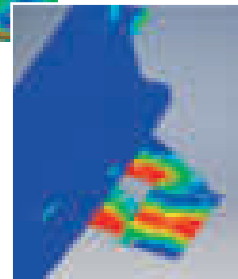
SUSTAINABILITY OF PERFORMANCE

Our commitment doesn't stop after successful startup. VetterTec is offering to continue the close relationship with our customers to ensure an optimized life cycle for operation/maintenance cost and performance – **always ensuring the best powder results.**

- ✓ Installation and commissioning
- ✓ Genuine spare parts and components
- ✓ Repair service and refurbishment
- ✓ Consultation for process optimization and plant expansion
- ✓ Preventative maintenance and inspections
- ✓ Plant modernization/upgrades and modification of equipment
- ✓ Retrofits and replacements
- ✓ After Sales Service
- ✓ Tailored trainings (maintenance and operation)



Analysis and upgrade:
Engineers at
VetterTec are...



... experts in
process optimization

But even if you don't have a VetterTec dryer (yet), we are pleased to offer our services and optimize your dryer!



VETTERTEC WORLDWIDE

CONTACT US AND FIND OUT
how we can help you achieve more!



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Quality Through Diligent Design

We provide sieving and screening solutions to businesses across the world. Our mission is to deliver distinction in our field of expertise, developing flexible modular design, along with clear and concise communication to distribute our product information.

Utilising the latest software, online platforms, and manufacturing practices we offer the processes, tools, and information that our customers and partners require. This ensures that finding the correctly specified and priced equipment is an easy, composed, courteous, and affable experience.

We Develop Products for You

We are always adapting to meet our customer's standards with a tailored approach that exceeds customer expectations. Furthermore, our commitment to maintaining strict working practices has been recognised by being awarded **ISO 9001 certification**, guaranteeing a high level of quality throughout the process.

Our customers come to us to solve very specific problems:

- > Lack of confidence with existing suppliers
- > Maintain product quality & throughput to meet set production targets
- > Prevent process contamination
- > Maintain a high standard by fitting certified and traceable equipment



Our machines are designed to address all these issues to give you complete peace of mind.

The Benefits We Deliver to Our Customers

We deliver a consultative approach to our sales process from initial request all the way through to after sales support. We take the time to understand your requirements and work with you to find the best, most effective product.

- Instead of taking a "one size fits all" approach, we adapt our machines to suit your processes. This provides a more effective machine for our customer's requirements.
- Our machines can be stripped down without tools which ensures there can be no associated contamination or health and safety issues.
- Most of our machines are **ATEX** approved as standard.
- We offer a full range of spares and accessories which will ensure years of problem free operation.
- All equipment is supplied with certified and traceable components as well as relevant documentation to comply with audit procedures.
- All our machines are manufactured in the UK in compliance with both **FDA** & various other regulations such as **CE, UKCA, EC 1935/2004**, and **ANIA**. Optional certificates such as **ATEX** upgrades, **3.1 material certificates**, **EAC, IECEX, UL** are also available.
- We provide a re-meshing service for existing rings or frames, irrespective of the original supplier.

Machinery Demonstration

We have a range of demonstration machines available for trial if you would rather try first before committing to making a purchase.

You can either make use of our demo fleet with **two-weeks for free**, or use our **in-house testing facility**.

01 Request

Tell us about your product

Let us know what product you want to test and/or if there is a particular machine you would like to use for the test.

02 Assessment

Decide what demonstration is right for you

We have three options: visit us on site, send your product directly to us (for us to carry out the test on your behalf), or arrange for a machine from our demo fleet to be sent directly to you.

03 Preparation

Ensuring the test runs smoothly

Please let us know in plenty of time the date you would like the test to commence, and/or when we can expect to receive your product for testing. If you require a demo machine on site, let us know the dates you need it for.

04 Support

Getting the most from your demonstration

All tests performed by us will aim to follow your own processing parameters and include a documented report. If you're using machinery on site, your local distributor will support you along the way or refer you to our Testing Engineer for guidance.



Types of Sieving Machinery

Maintaining a quality-controlled end product is an essential element of nearly all processing industries. We can provide both the sieving equipment and the knowledge to help you improve and maintain your product quality.

Choosing a sieve can be a daunting task, not only are there several manufacturers purporting to provide the answer to your needs, but the choices of differing types, sizes, and configurations make the process even more bewildering. Do you choose new or second hand? Round or square? Buy through an agent or from a manufacturer? Can the supplier support the sale with spares back up? Can they support the sale with engineering back up? Can they supply all those necessary items to ensure that you can connect your existing or new equipment to the sieve?

Is the unit in a hazardous area? All considerations when making that purchasing decision. Then there is the consideration of price, too expensive? Are you getting value for money? Too cheap? Is the quality of the product suspect? Will it last? It sounds obvious, but the first consideration should be: 'what is the sieve to be used for?'

This fundamental consideration is so often overlooked, but ensuring the requirement is correctly specified will narrow down the choice process. Assistance is always available from your Farleygreene distributor for you to evaluate the best options for your application. A machinery demonstration can also be carried out on site or within our test facility to fully prove the process.



Check Sieving

Check sieves are usually a single screen and typically the fine product that passes through the mesh is kept as good product.

This type of sieve might be chosen to remove lumps, bits of packaging, broken or undersized product, or to make sure no insect eggs get into the final product.

In most applications, a check sieve is either the first machine in a process, preventing contaminants, or the last machine before packaging as a quality check. However, they can still be placed anywhere in the process line.



The Sievmaster Slimline Sieve

Small Batch Sieving

Not all industries or processes require vast factories or continuous production lines. Batch sieves are recommended for any sieving process where only a small volume of a very short production run is required. Throughput rate may not be a major factor in this circumstance so only a small sieve is required to process a set volume of material.

This type of sieving is still considered a check sieving or grading operation, but it is just on a much smaller scale or not a continuous process.



The Sievmaster 200-S

Linear Sieving

As the name suggests, this arrangement moves the product along a rectangular mesh, rather than a circular one.

The product is not restricted upon the mesh, and it uses gravity as an aid to movement. This type of machine is ideally suited to those products which have a high proportion of oversize material, and require de-dusting or de-watering. The Segregator is especially useful in those areas in the food industry where spices, vegetables, or biscuits need separating from unwanted, broken, or undersized product.



The Sievmaster Segregator Sieve

Centrifugal Sieving

Centrifugal or Rotary Sieves are designed to provide users with an efficient, dust tight, high throughput machine. Using a set of paddles, the Sievmaster Rota pushes product out through a cylinder of mesh, rotating them at a high speed and applying centrifugal force.

This gives accurate material screening with continuous fine and coarse discharge, especially suitable for high volume sieving, lumpy, sticky, and dusty products. Product is sieved on a continuous basis and very large quantities can be processed quickly.



The Sievmaster Rota

Grading

A grading sieve is more precise than a check sieve, the goal is to get exact 'cuts' of the product where the particles in each cut are between a certain size. This is usually achieved by passing the product through up to 4 meshes with decreasing aperture sizes.

Multiscreen machines are available in various sizes starting with 800mm and increasing to 1200mm, and 1500mm diameters. Modular in their design, users can easily switch from a single screen with simple fines and oversize, to 3 or 4 cuts.



The Sievmaster Multiscreen Sieve

Ultrasonic Sieving

The use of an ultrasonic system can provide added benefits when sieving fine powders. The introduction of very high frequency vibration (ultrasonic wavelength) to the mesh produces a fluidising effect to the mesh wires, the theory being that the product 'slips' through the mesh more readily than by normal low frequency vibration.

It is especially useful for products such as toner, or metal powders used in additive manufacturing environments.



The Sievmaster Ultrasonic System

Industries We Serve

Since 1976 Farleygreene have been designing and manufacturing certified sieving solutions to customers from a wide range of industries. **We supply sieves to almost every industry sector** but in particular to the food and drink, pharmaceutical, chemical, and additive manufacturing industries.

All machine parts can include **full traceability, surface roughness measurements, As Built Drawings and FAT testing documentation.**

Brands we work with



Food & Drink



Pharmaceutical



Chemical



Additive Manufacturing



Our Sievmaster range has been designed to meet the growing food industry standards (**EC1935/2004, ATEX, FDA**). We have a large range of options available to meet various throughputs without compromising on strict hygienic requirements.

We have worked with companies such as **GSK, TEVA & Pfizer** to support the pharmaceutical industry in the supply of contamination free end products. Our standalone vacuum check screener can be easily fitted in existing process lines to safely grade even the most fragile ingredients in hygienic conditions.

Our sieving solutions play a key role in the chemical industry to ensure products are validated post process. Through our experience in both liquid and solid processing, our technology has demonstrated its benefits in separating various chemical end products such as solvent based paints.

Our Sievmaster range can be adapted to meet additive manufacturing requirements. Alternatively, our Sievgen range is used specifically for recycling and validating powders throughout the additive process. These units are designed to reduce downtime and fit seamlessly into both R&D and production environments. Please contact us your local Farleygreene distributor directly for further information on this product range.

Product Specification

Small Batch Sieving

200-S

A 200mm diameter vibratory sieve designed to sit directly on top of a container.

A circular frame supports the sieve and allows ingredients to be tipped into the top and check sieved into a container below.

The Sievmaster 200-S can be used for straining liquids as well as dry ingredients. Different mesh screens for coarse, medium, & fine/liquid applications are available.



sm sievmaster
 by farleygreene

Features & Benefits

- Easy-Clean hygienic design, no crevices
- Conforms to CE, UKCA, FDA, EC 1935/2004, and ANIA regulations
- No tool, quick change screens
- Wet or dry applications
- 0.05 kW (0.1 HP) vibratory motor
- Dust and waterproof to at least IP65
- Open top hopper for ease of dispensing
- All stainless steel body and contact parts
- Low maintenance/running costs – tool free disassembly & minimal servicing

Industries:



Product Options*

Top Dust Cover - removable top cover with gasket and clamp.



Top Cone Meshed - ET5145 adhesive.



Bench Mounting Kit - allows the sieve to be free-standing.



Collection Bin - wheels available.



*More options available on request

Typical Materials

- Most food, beverage, chemical powders and granular products
- Liquid separation

Finishes available

- Internal Dull Polish to <math><0.8 Ra</math>

Certified Technology



Product Specification

Small Batch Sieving

500-S

A small and economically priced sieve that does not compromise on accuracy.

The Sievmaster 500-S suits those needing to sieve products in smaller batches but still requiring a fast, efficient system. The cone shaped inlet allows the operator to easily load a full 25kg sack of product into the sieving area in one go.

Its stainless steel construction makes this machine suitable for use within the most arduous of environments, and the mobile stand provides a simple means of manoeuvring from one location to another.



sm sievmaster
 by farleygreene

Features & Benefits

- Easy-Clean hygienic design, no crevices
- No tool, quick change screens
- Wet or dry applications
- All stainless steel body and contact parts
- Dust and waterproof IP66
- Meets **HACCP, BRC** audit requirements
- Conforms to **CE, UKCA, FDA, EC 1935/2004**, and **ANIA** regulations
- Low maintenance/running costs – tool free disassembly & minimal servicing

Industries:



Product Options*

Ultrasonic upgrade - eliminates mesh blinding.



Top Dust Cover - Removable top cover with vision and access port.



Mesh Deblinding System - mechanical.



Underscreen Magnet Assy - 9000 gauss.



Top Cone Meshed - ET5145 adhesive.



Upgrade to ATEX zone 22 II 3D.



Tote Bin / Container Mounting - Tray type support system.



*More options available on request

Typical Materials

- Most food, beverage, chemical powders and granular products
- Liquid separation

Finishes available

- Internal Dull Polish to <math><0.8 Ra</math>

Certified Technology



Product Specification

Small Batch Sieving

E-400 Range

A modular check sieve with a sack tip or grading configuration.

The Sievmaster E-400 is comprised of a modular sieve stack built on a mobile frame; each stack is designed to be flexible enough to suit requirements such as grading and/or sack tipping.

Primarily aimed at the food, chemicals, and artisan markets, these mobile units can be adapted to meet requirements as they change, or fit different points in a process.

Their modular design means they can be easily adapted by the user for check screening, grade sieving (E-400-GRV), or low volume sack tipping (E-400-STV).

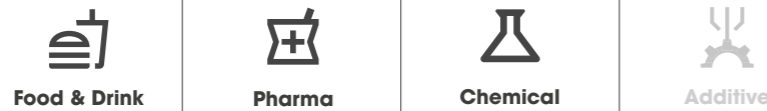



sievmaster
 by farleygreene

Features & Benefits

- The unit can utilise the STV components to become a sack tipping unit or GRV components to become a grading unit with no other modifications
- Sieve directly into tote bins, drums, or bags
- Bag cut out and internal sack rest grid (STV components)
- Conforms to CE, UKCA, FDA, EC 1935/2004, and ANIA regulations
- Dust and waterproof to at least IP65
- No tool, quick change screens
- Wet or dry applications
- All stainless steel contact parts
- Mobile support frame
- Easy-Clean design, no crevices
- Low maintenance/running costs – tool free disassembly & minimal servicing

Industries:



Product Options*

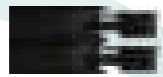
Ultrasonic upgrade - eliminates mesh blinding.



Addition of underscreen magnet assy- 9000 gauss.



Continuous processing of 2 fractions - Oversize / fines.



Mesh debinding - Mechanical.



Continuous processing of 3 fractions - Oversize / cut 1 / fines.



Upgrade to ATEX zone 22 II 3D available



*More options available on request

Typical Materials

- Most food, beverage, chemical powders and granular products

Finishes available

- Internal surfaces dull polish to <0.8 Ra

Certified Technology



Product Specification

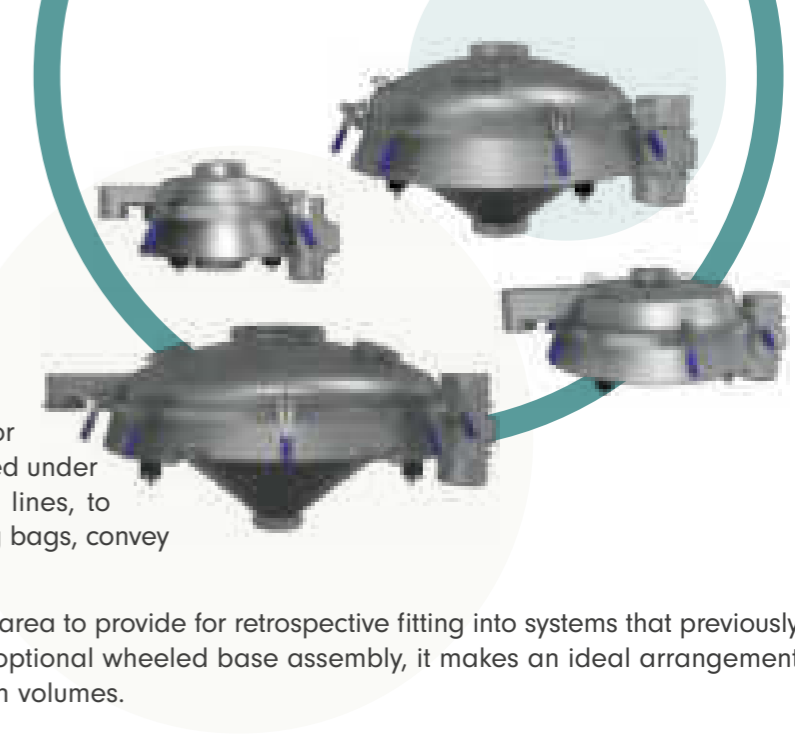
Check Sieving

Slimline Range

A highly effective check screener available in four different diameters.

The Sievmaster Slimline can be used as a simple means of check sieving into bins or containers. It is primarily designed to be fed under gravity within new or existing production lines, to screen product into a static weigh bins, big bags, convey lines, or hoppers.

The basic unit will locate within a confined area to provide for retrospective fitting into systems that previously had no sieving equipment. Used with the optional wheeled base assembly, it makes an ideal arrangement to sieve ingredients in small or large batch volumes.




sievmaster
 by farleygreene

Features & Benefits

- Available in 550, 950, 1250, or 1550mm diameters
- Dust and waterproof to at least IP65
- Noise level less than 70 dBA in use
- Quick release direct earthing kit included as standard
- All stainless steel body and contact parts
- Low maintenance/running costs – tool free disassembly & minimal servicing
- Easy-Clean hygienic design, no crevices
- Conforms to CE, UKCA, FDA, EC 1935/2004, and ANIA regulations
- Rated ATEX zone 21 II 2 D
- No tool, quick change screens
- Wet or dry applications

Industries:



Product Options*

Ultrasonic upgrade - eliminates mesh blinding.



Cone Dispersion Inlet - protects the mesh screen.



Underscreen magnet - with optional silicone covers.



Enlarge Outlet control options for screening efficiency:

NEW

Latest technology BOSC - vacuum controlled inflatable balloon.



Open Section Frame - a hygienic design to minimise product build up.



Magnet Drawer - ease of access with pull-out drawer.



Stainless steel Weir Plate - with adjustable hand wheels.



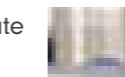
C-frame - can be manoeuvred in and out of awkward spaces (550 model only).



Upgrade to ATEX zone 20 II 1D (internal) and ATEX zone 22 II 3D (external).



Weir Flow Inlet - limits the rate of product on to the mesh.



Sack Tip Gallery - for bag loading into unit.



*More options available on request

Typical Materials

- Most food, beverage, chemical powders and granular products
- Liquid separation

Finishes available

- Dressing of external welds - gallery & funnel
- External dull polish to <0.8 Ra
- VivateQ® / Sublimotion finish
- Pharma polish - to <0.25 Ra internally and externally

Certified Technology



Product Specification

Check Sieving

Slimline Vacuum & Pressure Range

A range of sieves designed to be connected to a vacuum or positive pressure conveying system.

The Sievmaster Vacuum and Pressure Range, otherwise known as the **Vacusiev**, utilises specially modified components to safely screen product under vacuum or positive pressure.

The flexible hose system and sieve are connected under vacuum to retain the product within, protecting both the operator and surrounding atmosphere. These sieves are suited for check screening toxic, very fine, or dusty material, the larger 950 and 1250 models can be used within a pressure transfer system as well as under vacuum.



sm sievmaster
by farleygreene

Features & Benefits

- Available in 550, 950, or 1250mm diameters
- Easy-Clean hygienic design
- Conforms to CE, UKCA, FDA, EC 1935/2004 and ANIA regulations
- Rated ATEX zone 21 II 2 D
- Wet or dry applications
- Dust and waterproof to at least IP65
- Radial inlet as standard
- Quick release direct earthing kit included as standard
- All stainless steel body and contact parts
- Enclosed system, removing the issue of airborne dust or contamination
- Low maintenance/running costs – tool free disassembly & minimal servicing

Industries:



Product Options*

Ultrasonic upgrade - eliminates mesh blinding.



Oversize Outlet Connection to Butterfly Valve - pneumatically actuated.



Underscreen magnet - with optional silicone covers.



BFM Oversize Connection - in 304 or 316 Stainless Steel.



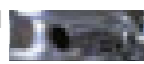
Open Section Frame - a hygienic design to minimise product build up.



C-frame - can be manoeuvred in and out of awkward spaces (550 model only).



Inlet Orientation - tangential type available.



Upgrade to ATEX zone 20 II 1D (internal) and ATEX zone 22 II 3D (external).



*More options available on request

Typical Materials

- Very fine, dusty materials used in the food, beverage, chemical, and pharmaceutical industries.

Finishes available

- Dressing of external welds - gallery & funnel.
- External dull polish to <0.8 Ra
- ViwateQ® / Sublimotion finish
- Pharma polish - to <0.25 Ra internally and externally.

Certified Technology



Product Specification

Check Sieving

Slimline Easilift Range

A sack tip sieve station capable of processing up to 25kg worth of product at one time.

Used together with either the 550 or 950 Slimline sieve, the Easilift range features an inclined sack rest table for ergonomic bag tipping and a Power-lift dust hood to minimise heavy lifting. Up to 25kg of product can be dispensed at a time for check screening into containers, static weigh bins, convey systems, or mixers.



sm sievmaster
by farleygreene

Features & Benefits

- Power-lift hood, no heavy lifting or awkward sleeve connections
- Self-sealing silicone diaphragm that provides a dust tight interface
- Hygienic open section support frame on standard models
- Conforms to CE, UKCA, FDA, EC 1935/2004 and ANIA regulations
- Rated to ATEX zone 21 II 2 D
- Dust and waterproof to at least IP65
- Easy-Clean hygienic design, no crevices
- No tool, quick change screens
- Quick release direct earthing kit included as standard
- All stainless-steel body and contact parts
- Inclined sack rest table to ensure all powders are captured for screening
- Low maintenance/running costs – tool free disassembly & minimal servicing

Industries:



Product Options*

Ultrasonic upgrade - eliminates mesh blinding.



Ultra-Hygienic Version - The Easilift Ultra, with additional hygiene features.



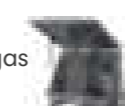
Underscreen magnet - with optional silicone covers.



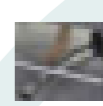
Local Dust Extraction (electric) LDEE - with reverse air jet filter cleaning.



Dust Hood Door - vertical Power-lift via 304SS gas struts.



Connection to vacuum transfer system - 50mm vacuum type outlet connection.



Side outlet - 100mm diameter downturn outlet (550 model only).



Sieve unit rated to ATEX zone 21 II 2D, dust hood and frame to ATEX zone 22 II 3D.



*More options available on request

Typical Materials

- Sacks and containers of dry powdered / granular food, pharmaceutical, & chemical materials.

Finishes available

- Dressing of external welds - gallery & funnel.
- External dull polish to <0.8 Ra
- ViwateQ® / Sublimotion finish
- Pharma polish - to <0.25 Ra internally and externally.

Certified Technology



Product Specification

Check Sieving

700-ST

The 700-ST combines the highest degree of control with the most hygienic design elements.

Fully stainless steel contact parts and external components mean it can be used in the most demanding environments, whilst tool-free, quick change mesh screens minimise downtime between batches.

It is available with a mobile base assembly as standard, supplied with adjustable bolt-down feet, and can be upgraded to fully stainless steel construction throughout.



sm sievmaster
by farleygreene

Features & Benefits

- High throughput for a low footprint machine
- A fully enclosed system
- Wet or dry applications
- Easy-Clean, hygienic design
- Conforms to CE, UKCA, FDA, EC 1935/2004 and ANIA regulations
- Rated ATEX zone 22 II 3D
- No tool quick change screens
- All stainless steel body with 316 contact parts
- Dust and waterproof to at least IP65
- Low maintenance/running costs – tool free disassembly & minimal servicing
- A mobile unit that can be used under big bag or bulk container discharging systems, or in production lines at Critical Control Points

Industries:



Food & Drink



Pharma



Chemical



Additive

Product Options*

Mesh Deblinding - ultrasonic.



Sack/bag Entry with safety Hex Grid - side wall cut away for bag loading into open unit.



Enclosed Top Cover - removable top cover with 150mm diameter central inlet.



Weir flow Type Inlet - for increased product in feed flow control.



Underscreen Magnet Assy - 7000, 9000, or 11000 gauss.



Upgrade to ATEX zone 21 II 2D internal and ATEX zone 22 II 3D external.



*More options available on request

Typical Materials

- Most food, pharmaceutical, chemical powders and granular products
- Liquid separation

Finishes available

- Dressing of external welds
- Internal & external dull polish to <0.8 Ra
- ViwateQ® / Sublimotion finish
- Pharma polish - to <0.25 Ra internally and externally.

Certified Technology



NEW PRODUCT

Product Specification

Centrifugal Sieving

Rota Range

Where high volume bulk check screening is required, the Rota Range provides non-vibratory centrifugal sifting.

Rota sifters use a set of revolving paddles to push product outwards against the mesh cylinder, forcing fine product through and continuously ejecting coarse product via a separate outlet.

Rotas are dust-tight and can be fixed into place within your process line. The internal mesh screen assembly and sieving paddle components are fully removable without the need for any tools. The mesh can also be fully inspected across its full circumference and length whilst still in place inside the machine.

Features & Benefits

- Available in 3 sizes (from smallest to largest): 90-C single basket, 180-C single basket, and 360-C twin basket variants
- Quick release side door toggle clamps for quick inspection
- Enhanced sealing profile on all doors
- Standard units can be used for gravity system, vacuum to -0.4bar and pressure to +0.8bar with a small safety upgrade**
- Available with stainless or nylon woven mesh, wedgewire and perforated mesh screens
- All stainless steel metal contact parts
- High volume bulk sieving for wet or dry applications
- For use under big bag or bulk container discharging systems within production lines
- Can be used with any type of mechanical or pneumatic conveyor systems, with correct options
- Deagglomeration of compacted material in one action
- Cantilever shaft design to provide easy access to mesh screen & minimal servicing

**if converting from gravity to +/- pressure please contact us for your free upgrade kit.

Industries:



Food & Drink



Pharma



Chemical



Additive

Product Options*

Wedgewire mesh basket - comes with blue metal detectable flange gasket.



Support frame - static or mobile (open section hygiene design).



Perforated mesh basket.



Suitable for vacuum or pressure applications - see above



316 contact parts available.



Override collection barrel - 10 or 20 litre



Inlet transition piece - available on all models.



Override outlet butterfly valve - for "no spill" override barrel change over



Fines transition piece - available on all models.



Deagglomeration of product (lump breaking)

dedicated lump breaking machines are available for compacted or solid material breakdown.



Easy-Clean magnet assy to fines - magnet drawer.



*More options available on request

Typical Materials

- Almost any powder or granulated material used in the food, beverage, and chemical industries.

Finishes available

- Dressing of External Welds
- Internal Dull Polish to <0.8 Ra
- ViwateQ® / Sublimotion Finish
- Pharma Polish - to <0.25 Ra internally and externally.

Certified Technology



Product Specification

Grading

Multiscreen Range

A vibratory sieve used for grading and separating product.

Achieve precise separation whilst sorting material in up to four grades with the Multiscreen grading sieve. The Multiscreen uses weight configuration technology allowing precise control of mesh dwell time and overall screening efficiency, maximising the consistency of the product being screened.

Mechanical or ultrasonic mesh deblinding systems can be installed, allowing consistent throughput of difficult product.



SM sievemaster
by farleygreene

Features & Benefits

- Available in 800, 1200, or 1500mm diameters
- No tool, quick change bonded mesh screens
- Continuous processing of material into required fractions
- Conforms to CE, UKCA, FDA, EC 1935/2004 and ANIA regulations
- Wet or dry applications
- Dust and waterproof to at least IP65
- Easy-Clean hygienic design
- Low maintenance / running costs – tool free disassembly & minimal servicing
- Adjustable weights to control material on screen for optimum dwell patterns
- All stainless steel and contact parts (non-contact parts can be upgraded to stainless steel)

Industries:



Product Options*

Ultrasonic upgrade - eliminates mesh blinding.



Twin oversize outlets to top gallery - for high % rapid oversize removal.



Enclosed top cover - removable cover with central inlet.



Mobile base assembly - with swivel locking castors.



Side vision port - added to side wall of gallery.



Hygiene base assembly - satin finish stainless steel on adjustable feet.



Full scroll plate - added to top gallery.



Upgrade to ATEX zone 22 II 2D (internal & external) or ATEX zone 21 II 2D internal & ATEX zone 22 II 3D external.



High flow discharge to fines - increase height and angle of internal funnel plate.



Hygiene vibro body & suspension - stainless steel motor mounting assy & springs.



Continuous processing of 2, 3, or 4 fractions.



Mechanical Mesh Deblinding



*More options available on request

Typical Materials

- Most food, pharmaceutical, chemical powders and granular products

Finishes available

- Dressing of internal / external Welds.
- Internal dull polish to galleries <0.8 Ra
- VivateQ® / Sublimation finish
- Pharma polish - to <0.25 Ra internally and externally.

Certified Technology



Product Specification

Linear Sieving

Segregator Range

A linear vibratory screener suitable for separating both wet and dry product.

The Sievmaster Segregator uses a pair of vibratory motors to move product along a rectangular mesh screen in a linear direction. The large screen area allows product prolonged sieving time, especially useful for de-dusting, de-watering, and screening delicate product.

The Segregator range is available in three different sizes with variations to provide up to three separations and a wide choice of sieving aids for problem materials.



SM sievemaster
by farleygreene

Features & Benefits

- Screen surface area available in 3 x different sizes: 1280mm x 640mm, 1575mm x 645mm, or 1540 x 920mm
- A very high sieving efficiency
- Adjustable screen inclination to raise the oversize outlet
- Easy-Clean, hygienic design
- Wet or dry applications
- Dust and waterproof to at least IP65
- Quick change, bonded screens
- Conforms to CE, UKCA, FDA, EC 1935/2004 and ANIA regulations
- Low maintenance/running costs – tool free disassembly & minimal servicing
- Linear motion is ideal for screening, grading, de-dusting, de-watering, and liquid separation

Industries:



Product Options*

Continuous Processing of 2 Fractions - Oversize / Fines.



2 x Vision Ports



Continuous Processing of 3 Fractions - Oversize / Cut 1 / Fines.



Mesh Deblinding - ultrasonic.



Top Enclosed Lid - with 150-300mm diameter plain inlet.



Upgrade to ATEX zone 21 II 2D internal / ATEX zone 22 II 3D external



*More options available on request

Typical Materials

- Most food, pharmaceutical, chemical powders and granular products
- Liquid separation

Finishes available

- Dressing of external welds
- Internal & external dull polish to <0.8 Ra
- VivateQ® / Sublimation finish
- Pharma polish - to <0.25 Ra internally and externally.

Certified Technology



Product Specification

Ultrasonic Sieving

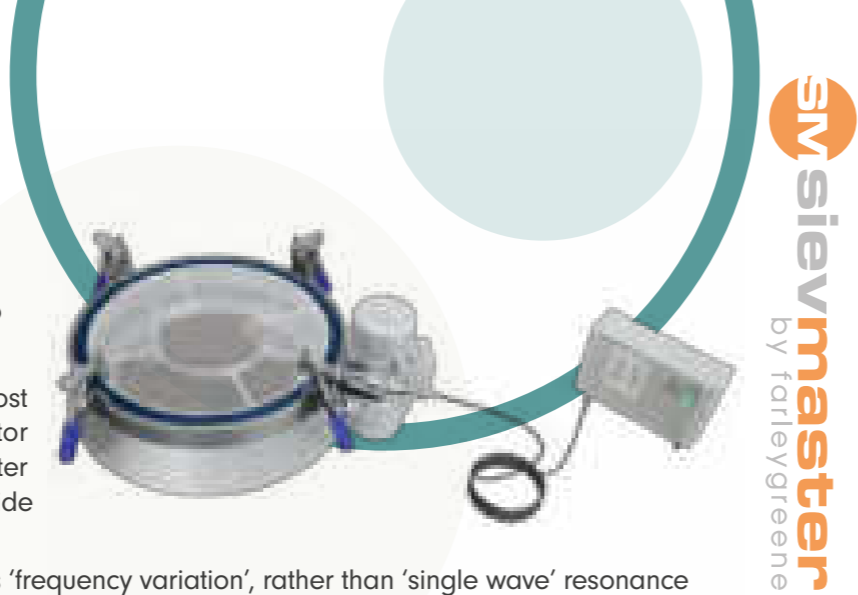
Ultrasonic System

A set of supplementary equipment used to prevent mesh blockage and blinding.

The ultrasonic system is designed to fit within most Sievmaster sieving machines. It uses a generator box connected to an externally mounted converter which applies ultrasonic vibrations to a wave guide and transmits them to a mesh screen.

It applies a continuously varying wave, known as 'frequency variation', rather than 'single wave' resonance frequency. This solves common problems such as heating and 'hot spots' that run the risk of causing premature mesh failure.

The Sievmaster Ultrasonic System is available with a variety of different options depending on each user's requirements. Please get in contact with your local Farleygreene distributor or with us directly to find out more about specifications for the ultrasonic system.



Features & Benefits

- Improves and ensures consistent throughput rates and helps to reduce maintenance by keeping the mesh clear.
- A hygienic design, all ultrasonic components (other than the mesh ring) are outside the product flow.
- The system uses frequency sweeping to minimise work hardening of mesh wires and better dissipate the build up of heat in the mesh, maximising the life span of the mesh.
- Self tuning ultrasonics that find the resonance frequency of the system they are attached to, meaning no operator input is needed when switching between mesh rings gaskets etc.
- Can be connected to and controlled/monitored by a external control system via the integrated RS232 port and generator.

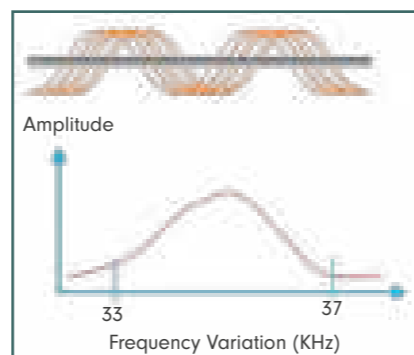
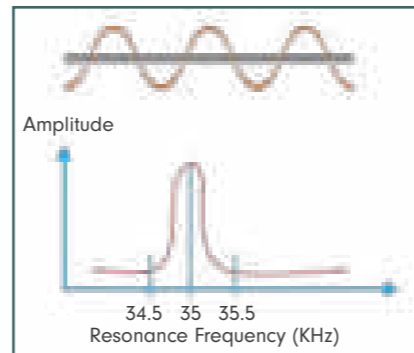
Why ultrasonic screening?

- Delivers efficient sifting of powders with particle sizes of <300 micron
- Improves throughput up to 300% in some cases
- Helps to break down agglomerated materials
- Ensures a long term cleaning/deblinding effect
- Special attachment for use with laboratory test sieves
- Software package to allow remote control & analysing

How do ultrasonic screens work?

The generator creates a high frequency signal that the converter changes into an ultrasonic sound wave.

These oscillations are transferred to the mesh screen where they are evenly distributed. The oscillations of the mesh cloth reduce the frictional resistance between the powders and the screen. This reduces the tendency towards blocking and blinding, whilst fluidising the product as it flows across the mesh, resulting in increased throughputs.



Spares & Accessories

We are here to support you during the life of your sieving machine offering you a wide range of spare parts, not only for our own manufactured machinery but for other sieve manufacturers too.

We provide you with a fully itemised spares list bespoke to your machine, once it has been installed, allowing you easy identification of parts when required.

Our Re-mesh Service

We re-mesh existing frames or provide new mesh screens in either stainless steel **304/316/318LN** or **430SS** for magnetic detection.

We provide meshed rings in a wide range of standards such as **EC 1935/2004** and **FDA** even if the original supplier was not Farleygreene.

Simply package up your mesh ring, print off and complete the '**Re-mesh Request Form**', attach it to your parcel and pop it in the post.

See our mesh guide on page 20 for the types of mesh we offer.



Spares we offer

- ✓ Funnels
- ✓ Direct Earthing Kit
- ✓ Suspension Mount & Springs
- ✓ Toggle Clamps
- ✓ Galleries
- ✓ Band Clamps
- ✓ Gaskets
- ✓ Diaphragm Seal
- ✓ Magnets
- ✓ Motors
- ✓ Earthing Set
- ✓ Slimline Mesh Rings
- ✓ Multiscreen Mesh Rings
- ✓ Vision Port Covers
- ✓ Spindle & Lock Nut
- ✓ Sievgen 04 Mesh Gallery

Choice of mesh

A general guide to our selection.

Mesh selection is one of the most important choices when deciding on the sieving machine requirement. Throughput expectations, machine size, and style of sieving are controlled by mesh size selection. Influencing factors are given below to aid customers in the choice of mesh for their application.

Stainless Steel Mesh

The most common material choice. It provides strength and is resistant to heat. It is ideal where a hot material is to be sieved or where a large amount of product will remain on the screen. It can be supplied in a variety of weave patterns, the most common being a plain grid type weave. Stainless steel mesh retains its size integrity even on larger meshes.



Magnetic Mesh

Woven mesh can also be supplied in a special 430CS magnetic stainless version, this mesh has a higher chrome content than standard stainless steel mesh. Whilst still corrosion resistant, it can be picked up easily by rare earth magnet assemblies should any breakages occur in use. Another variant is 318LN mesh which is an austenitic-ferritic steel and is highly corrosion resistant but retains its magnetic properties. This type of mesh is available in a very limited range of apertures.



Nylon & Polyester Mesh

Nylon meshes have a smoother filament than stainless steel and are ideal for sieving fine powders. Nylon has inherent abrasion resistance. They are limited to temperatures up to 60°C and will absorb moisture to create a slack and less efficient screen. It can also be coloured RED or BLUE. Polyester is similar to nylon, but superior in that it has a temperature endurance up to 130° C. It is, however, less resistant to abrasion than nylon.



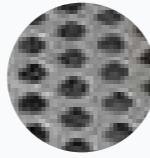
Phosphor Bronze

Often used where explosive materials are sieved, however stainless steel meshes have surpassed phosphor bronze due to availability.



Perforated Mesh

This mesh is made from sheets punched to either square or round apertures. Supplied in sheet form and cut to size, they can be bonded to rings the same as woven mesh. These mesh types are extremely hard wearing and stable in use. They do have a reduced open area so advice should be sought to ensure capacity rates can still be met. Available in most types of stainless steel, aluminium and carbon steel.



Wedge Wire Screens

Wedge wire screens can be fabricated in a range of both flat panels and tubes. Wedge wire and support profiles are resistance welded with accurate slot dimensions. The screens can be mechanically and electro-polished and given additional surface hardening treatments. Further support structures and fastening brackets, can be added. Tubes can have various end piece connections and additional internal strengthening.



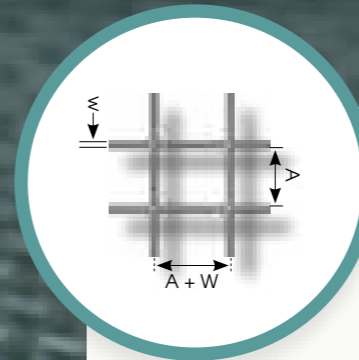
Mesh Apertures

Most meshes are now a bonded configuration and require a special jig to ensure optimum tension and aperture size integrity - the mesh is stretched along its warp and weft to a precise tension. Hand meshed systems cannot guarantee the size or shape of the aperture due to the stretching of the mesh from differing directions (diamond shaped holes, and irregular hole patterns).

All mesh used by Farleygreene conforms to ISO standards 4782, 4783 and 9044 to ensure quality and accuracy of our meshing service.

Mesh is usually supplied in 1220mm wide rolls and in linear length increments as required. 1020, 1530 & 2000mm wide rolls are available but only in certain apertures.

Farleygreene offer a full re-mesh/meshing service. Please ask for our mesh information charts for more details of mesh apertures available.



$$\text{OPEN AREA (Fo)} = \dots\% \\ \text{Fo} = \frac{A^2 \times 100}{(A + W)^2}$$

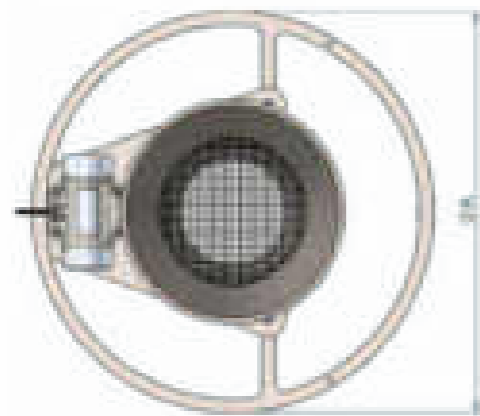
$$A = \text{APERTURE SIZE} \\ W = \text{WIRE DIAMETER} \\ A + W = \text{PITCH}$$

$$\text{APERTURE SIZE X 1000} = \text{MICRONS} \\ \text{MESH COUNT} = \text{HOLES PER LINEAR INCH}$$

TABLE SHOWS TYPICAL SIZES ONLY
MANY MORE APERTURES ON REQUEST

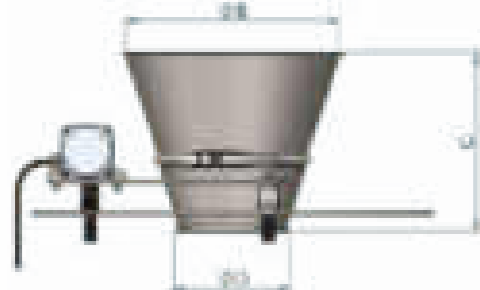
Aperture	Mesh	Wire dia	Open area %
0.063	250	0.040	38
0.075	230	0.036	45.7
0.100	165	0.050	44.4
0.150	100	0.100	36
0.200	88	0.090	48
0.250	62	0.160	38
0.400	40	0.220	41
0.500	38	0.160	57.6
0.630	32	0.160	64
0.710	29	0.180	64
0.850	24	0.200	65.5
0.900	23	0.200	67
1.000	19	0.320	57.6
1.250	15.4	0.400	57.6
1.500	12	0.630	49.6
2.000	10	0.560	60
2.500	8.5	0.500	69.4
3.15	6.4	0.800	64
4.000	5.4	0.710	72
5.000	3.8	1.6	57.6
6.300	3.4	1.250	69.4
7.100	3	1.400	69.4
8.000	2.6	1.600	69.4
10.000	2.2	1.400	77
11.200	2	1.600	77
12.500	1.8	1.6	79
16.000	2	2.000	79

SM 200-S ARTISAN SIEVE



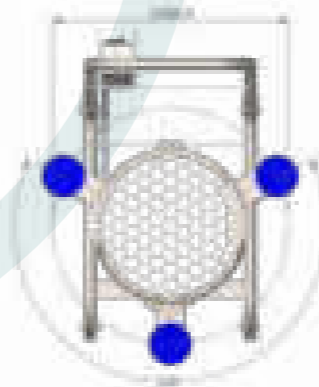
Dimensions	SM 200-S (mm)
A	565
B	300
C	250
D	150

Screen diameter = 200mm
Bench mount legs give outlet height @ 355mm from ground



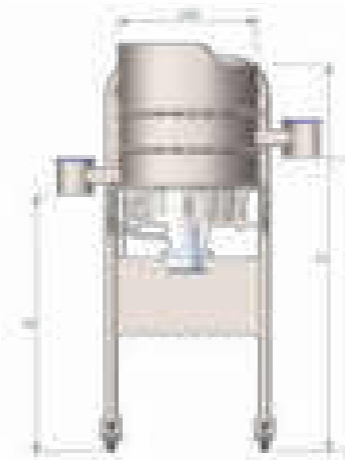
ELECTRICAL	SM 200-S
Voltage	110 / 240
Frequency	50 / 60 hz
Power	45 w
Phase	1
ATEX	No

SM E-400-STV



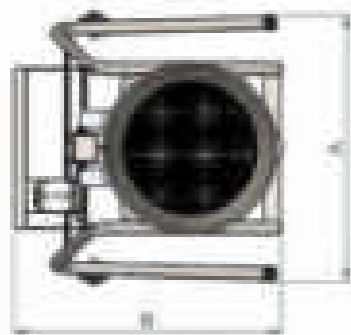
Dimensions (mm)	A	B	C	D
SM E-400-STV	840	735	1110	400

For under screen magnet, add 55 to dimension



ELECTRICAL	SM E-400
Voltage	110-240 / 380-460
Frequency	50 / 60 hz
Power	3 Phase 0.17kW / 0.17kW
Phase	1 / 3
ATEX	YES

SM 500-S



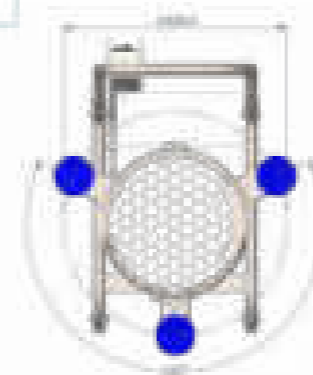
Dimensions	SM 500-S (mm)
A	800
B	800
C	500
D	300
E	450
F	750

Screen diameter = 400mm
Bespoke frames available with DOL box, cable & plug



ELECTRICAL	SM 500-S
Voltage	110 / 240 / 380-460
Frequency	50 / 60 hz
Power	85 w
Phase	1 / 3
ATEX	Yes

SM E-400-GRV



Dimensions (mm)	A	B	C	D
SM E-400-GRV	735	840	1028	100

For under screen magnet, add 55 to dimension



ELECTRICAL	SM E-400
Voltage	110-240 / 380-460
Frequency	50 / 60 hz
Power	3 Phase 0.17kW / 0.17kW
Phase	1 / 3
ATEX	YES

SM Slimline 550-FF & 950-ST



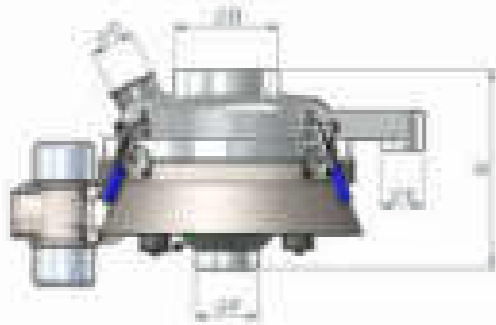
Dimension	SM550-FF (mm)	SM950-ST (mm)
A	510	755
B	415	665
C	100 (optional)	150 (optional)
D	150 - 530	150 - 900
E	100 (optional)	100/150 (optional)
F	150 - 300	150 - 400
G	400 *	485

Screen diameter = 565mm & 965mm

Bespoke frames available - BFM/JACOB ends can be fitted

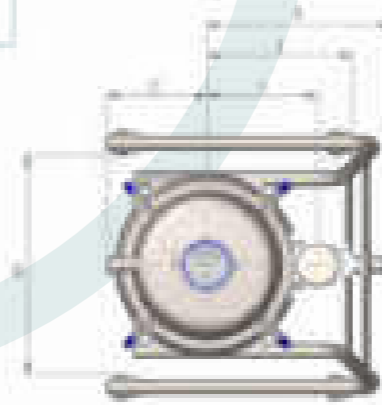
*For SM550-FF with under screen magnet assy add 50mm to 'G' dim

Allow min. 50mm for flexible connections to inlet/outlet



Electrical	SM550-FF	SM950-ST
Voltage	110 / 240 / 380-460	110 / 240 / 380-460
Frequency	50 / 60 hz	50 / 60 hz
Power	0.35 kw	0.9 kw
Phase	1 / 3	1 / 3
ATEX	Yes	Yes

SM SLIMLINE 550 VS



Dimension	SM 550 VS
A	DN 50 DIN32676
B	1205
C	350
D	DN50 DIN32676
E	307
F	646
G	1300
H	765
I	388
J	508
K	846

Electrical	SM 550-VS
Voltage	110 / 240 / 380-460
Frequency	50 / 60 Hz
Power	0.3 kW
Phase	1 / 3
ATEX	Yes

Screen diameter = 565

*Hose connections can be made to match line

SM Slimline 1250-ST & 1550-ST



Dimension	SM1250-ST (mm)	SM1550-ST (mm)
A	842	1000
B	750	950
C	150 - 900	150 - 900
D	150 (optional)	150 (optional)
E	150 - 600	150 - 600
F	685	1010

Screen diameter = 1165mm & 1465mm

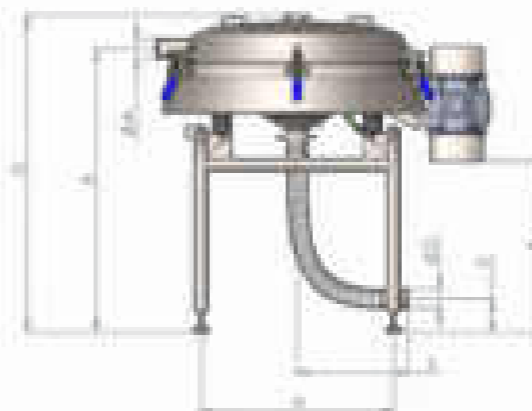
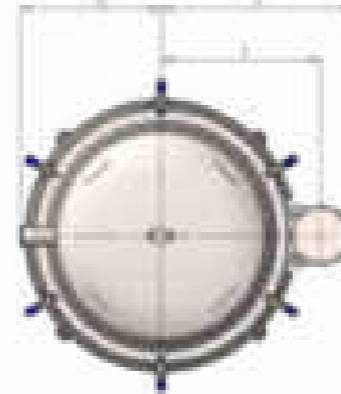
Bespoke frames available - BFM/JACOB ends can be fitted

Allow min. 50mm for flexible connections to inlet/outlet



Electrical	SM1250-ST	SM1550-ST
Voltage	110 / 240 / 380-460	110 / 240 / 380-460
Frequency	50 / 60 hz	50 / 60 hz
Power	0.9 kw	1.1 kw
Phase	1 / 3	1 / 3
ATEX	Yes	Yes

SM SLIMLINE 950 VS/PS



Dimension	SM 950 VS/PS
A	DN75 DIN32676
B	1106
C	550
D	DN75 DIN32676
E	250
F	431
G	1340
H	750
I	621
J	753
K	665

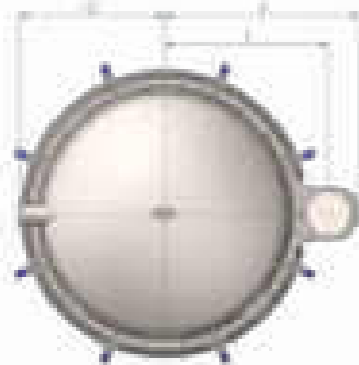
Screen diameter = 965

Frames for SM950 differ from unit shown - for guidance only.

Hose connections can be made to match line.

Electrical	SM 950-VS/PS
Voltage	110-240 / 380-460
Frequency	50 / 60 hz
Power	0.35 kW
Phase	1 / 3
ATEX	Yes

SM SLIMLINE 1250 VS/PS

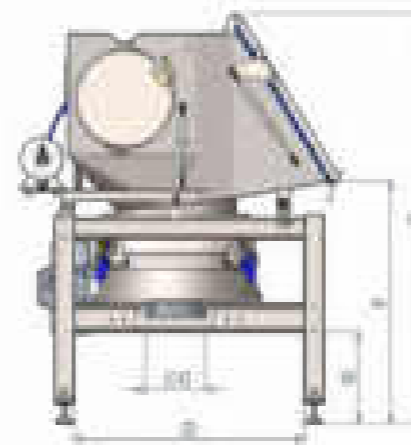
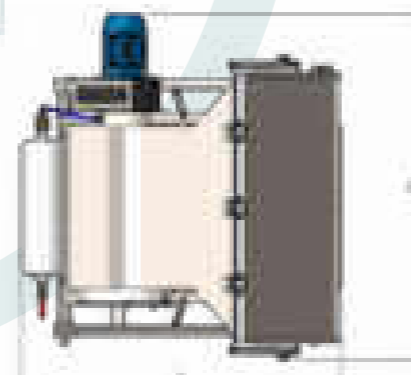


DIMENSION	SM 1250 VS/PS
A	DN100 DIN32676
B	1293
C	627
D	DN100 DIN32676
E	250
F	538
G	1492
H	930
I	706
J	838
K	844

Screen diameter = 1165mm
 Frames for SM1250 differ from unit shown - for guidance only.
 Hose connections can be made to match line.

ELECTRICAL	SM 950-VS/PS
Voltage	110-240 / 380-460
Frequency	50 / 60 hz
Power	1.1 kW
Phase	3
ATEX	YES

SM EASILIFT LDEE 550 & 950

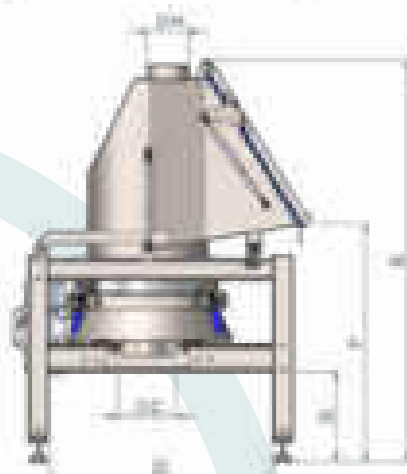
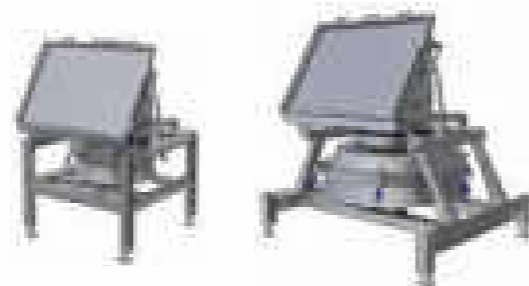
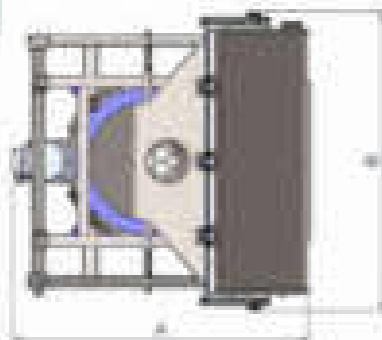


DIMENSION	SM 550 (mm)	SM 950 (mm)
A	1120	1495
B	1135	1510
C	150 - 300	150 - 400
D	850	1075
E	1525	1525
F	900	900
G	340	155
H	150	150

Screen diameter = 565mm & 965mm
 **For outlet heights over 450/300mm step may be required.
 *Available with outlet suitable for connection to vacuum line.

DIMENSION	SM 550 (mm)	SM 950 (mm)
Voltage	380-460	380-460
Frequency	50 / 60 hz	50 / 60 hz
Power	1.1 kW + 0.35 kW	1.1 kW + 0.9kW
Phase	3	3
ATEX	Yes	Yes

SM EASILIFT 550 & 950

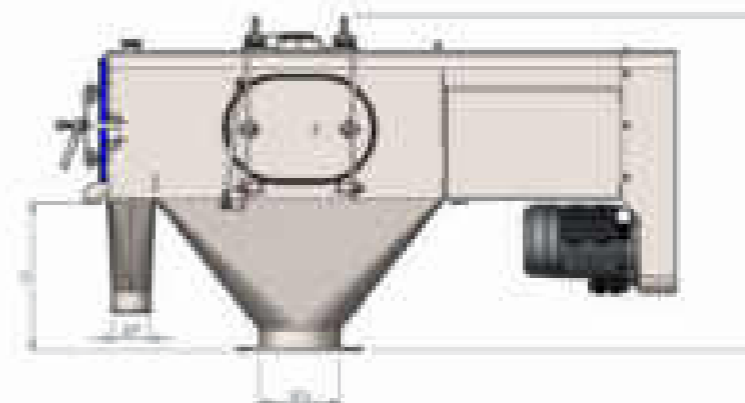
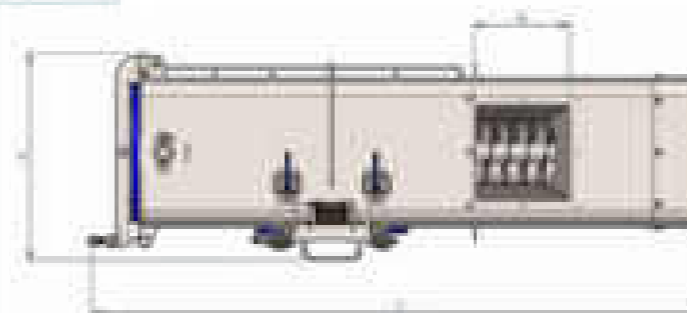


DIMENSION	SM 550 (mm)	SM 950 (mm)
A	1120	1495
B	1135	1510
C	150 - 300	150 - 400
D	850	1075
E	1525	1525
F	900	900
G	340	155
H	150	150

Screen diameter = 565mm & 965mm
 **For outlet heights over 450/300mm step may be required.
 *Available with outlet suitable for connection to vacuum line.

DIMENSION	SM 550 (mm)	SM 950 (mm)
Voltage	110 / 240 / 380-460	110 / 240 / 380-460
Frequency	50 / 60 hz	50 / 60 hz
Power	0.35 kw	0.9 kw
Phase	1 / 3	1 / 3
ATEX	Yes	Yes

SM ROTA 180



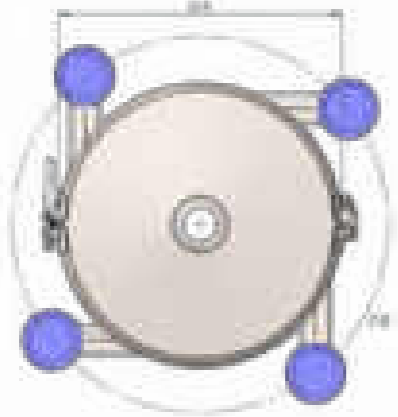
DIMENSION	SM-ROTA-180 (mm)
A	560
B	260
C	1670
D	400
E	905
F	Ø100
G	Ø 215

SCREEN SIZE = Ø195MM X 790MM LONG
 MOBILE OR STATIC FRAMES AVAILABLE
 SUITABLE FOR USE WITH VACUUM OR PRESSURE LINES

ELECTRICAL	SM-ROTA-180
Voltage	240 / 380-460
Frequency	50 / 60 hz
Power	2.2 kW
Phase	3
ATEX	Yes

For more information on the other machines in the range, please enquire.

SM MULTISCREEN 800, 1200, 1500

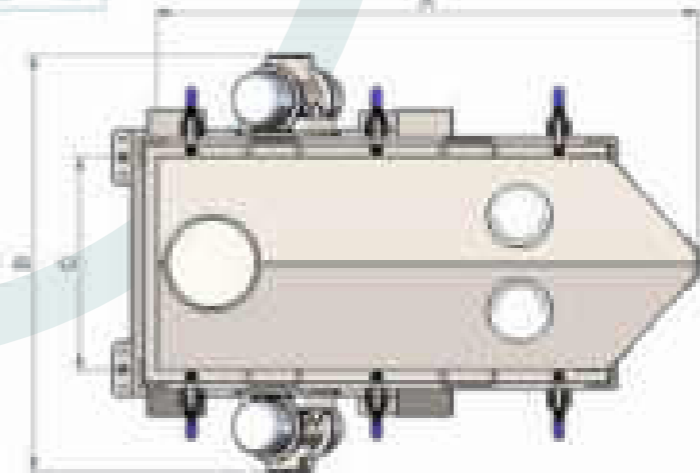


DIMENSION (mm)	A	B	C	D	E	F	G	H	I
SM800-P2	800	1100	---	---	815	675	1105	150	150
SM800-P3	800	1100	---	960	815	675	1250	150	150
SM800-P4	800	1100	1105	960	815	675	1395	150	150
SM1200-P2	1170	1690	---	---	860	690	1210	250	200
SM1200-P3	1170	1690	---	1035	860	690	1385	250	200
SM1200-P4	1170	1690	1210	1035	860	690	1560	250	200
SM1500-P2	1470	1820	---	---	890	690	1315	250	200
SM1500-P3	1470	1820	---	1095	890	690	1520	250	200
SM1500-P4	1470	1820	1300	1095	890	690	1725	250	200

Screen diameter = refer to 'A' DIM
Flexible connections to inlets & outlets - mobile version available.

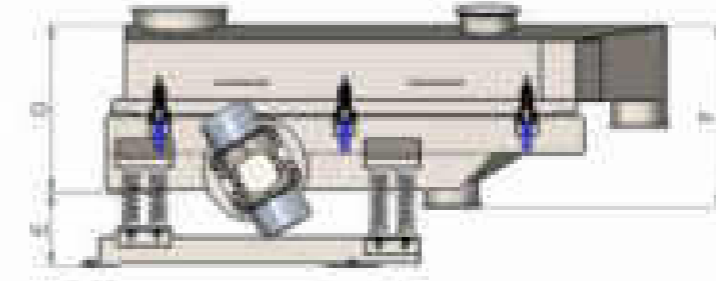
ELECTRICAL	SM800	SM1200	SM1500
Voltage	110 / 240 / 380-460	110 / 240 / 380-460	110 / 240 / 380-460
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0.53 / 0.67 kW	0.90 / 1.05 kW	2.15 / 2.70 kW
Phase	3	3	3
ATEX	Yes	Yes	Yes

SM SEGREGATOR 42 & 53



DIMENSION	SM42 (mm)	SM53 (mm)
A	1550	1850
B	1160	1490
C	600	900
D	555	555
E	165	165
F	500	500

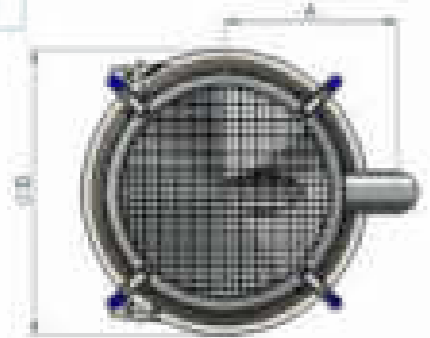
TYPICAL VERSION SHOWN - UNIT CAN BE OPEN OR ENCLOSED



Screen size = 1245 x 645mm & 1540 x 915mm
For additional decks add 180mm per extra screen
Bespoke frames available - mobile or static
Inlet & outlets configured to suit installation - typical version shown

ELECTRICAL	SM42 (mm)	SM53 (mm)
Voltage	110 / 240 / 380-460	110 / 240 / 380-460
Frequency	50 / 60 hz	50 / 60 hz
Power	0.55 kw x 2	0.55 kw x 2
Phase	3	3
ATEX	Yes	Yes

SM 700-ST



DIMENSION	SM700-ST (mm)
A	430
B	630
C	530
D	350*
E	100
F	770

Screen diameter = 565mm
Enclosed top & oversize outlet available (refer to SM550-FF DRG)
*For underscreen magnet assy add 50mm to 'D' DIM
Allow min. 50mm for flexible connections to inlet/outlet

ELECTRICAL	SM700-ST
Voltage	110 / 240 / 380-460
Frequency	50 / 60 hz
Power	0.55 kw
Phase	1 / 3
ATEX	Yes



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