

Tabla de cargas de material filtrante recomendadas
Table showing recommended filter material levels

| Tipo de filtro / Filter type | Capa / Layer | Altura del lecho filtrante / Filter bed height | Material / Material | H (mm) | | | | | | | | | | | | |
|--|----------------------|--|---------------------|--|---------|------|------|------|------|------|------|------|------|------|-------|-------|
| | | | | Ø | 1050 | 1200 | 1400 | 1600 | 1800 | 2000 | 2350 | 2500 | 2600 | 2800 | 3000 | |
| Filtros bobinados / Bobbin wound filters | Monocapa Singlelayer | Oslo Olot Ampuria | 1200 mm* | Sand / Arena (0.4 - 0.8 mm) kg | 1100 | 1300 | 1775 | 2300 | 3000 | 3800 | 4650 | 6300 | 7075 | 8176 | 9483 | 10575 |
| | | | | Gravel / Grava (1-2 mm) kg | 100 | 150 | 175 | 250 | 300 | 400 | 500 | 675 | 775 | 796 | 924 | 1100 |
| | | | | | | | | | | | | | | | | |
| | Multicapa Multilayer | Oslo Olot Ampuria | 1500 mm* | Sand / Arena (0.4 - 0.8 mm) kg | 1200 | 1450 | 1900 | 2500 | 3300 | 4200 | 5100 | 7050 | 8050 | 8920 | 10345 | 11550 |
| | | | | Gravel / Grava (1-2 mm) kg | 100 | 150 | 175 | 250 | 300 | 400 | 500 | 675 | 775 | 796 | 924 | 1100 |
| | | | | Gravel / Grava (3-5 mm) kg | 100 | 150 | 175 | 250 | 300 | 400 | 500 | 675 | 775 | 796 | 924 | 1100 |
| Filtros de cartucho / Cartridge filters | Monocapa Singlelayer | Oslo Olot Ampuria | 1200 mm* | Hydroanthracite / Hydroantracita (0.8 - 1.6 mm) kg | 600 | 450 | 575 | 775 | 1000 | 1275 | 1575 | 2175 | 2450 | 2548 | 2956 | 3550 |
| | | | | Sand / Arena (0.4 - 0.8 mm) kg | 400 | 475 | 625 | 825 | 1100 | 1400 | 1700 | 2350 | 2675 | 2973 | 3448 | 3850 |
| | | | | Gravel / Grava (1-2 mm) kg | 100 | 150 | 175 | 250 | 300 | 400 | 500 | 675 | 775 | 796 | 924 | 1100 |
| | Multicapa Multilayer | Oslo Olot Ampuria | 1500 mm* | Hydroanthracite / Hydroantracita (0.8 - 1.6 mm) kg | 600 | 450 | 575 | 775 | 1000 | 1275 | 1575 | 2175 | 2450 | 2548 | 2956 | 3550 |
| | | | | Sand / Arena (0.4 - 0.8 mm) kg | 600 | 725 | 950 | 1250 | 1650 | 2100 | 2550 | 3525 | 4025 | 4460 | 5172 | 5775 |
| | | | | Gravel / Grava (1-2 mm) kg | 100 | 150 | 175 | 250 | 300 | 400 | 500 | 675 | 775 | 796 | 924 | 1100 |
| Filtros de cartucho / Cartridge filters | Monocapa Singlelayer | Oslo | 1200 mm* | Sand / Arena (0.4 - 0.8 mm) kg | 1100 | 1300 | 1775 | 2300 | 3000 | 3800 | 4650 | 6300 | 7075 | 8176 | 9483 | 10575 |
| | | | | Gravel / Grava (1-2 mm) kg | 100 (1) | 300 | 350 | 500 | 775 | 850 | 1150 | 1800 | 1975 | 2123 | 2463 | 3850 |
| | | | | | | | | | | | | | | | | |
| | Multicapa Multilayer | Oslo | 1200 mm* | Hydroanthracite / Hydroantracita (0.8 - 1.6 mm) kg | 600 | 450 | 575 | 775 | 1000 | 1275 | 1575 | 2175 | 2450 | 2548 | 2956 | 3550 |
| | | | | Sand / Arena (0.4 - 0.8 mm) kg | 400 | 475 | 625 | 825 | 1100 | 1400 | 1700 | 2350 | 2675 | 2973 | 3448 | 3850 |
| | | | | Gravel / Grava (1-2 mm) kg | 100 (1) | 300 | 350 | 500 | 775 | 850 | 1150 | 1800 | 1975 | 2123 | 2463 | 3850 |

*Altura del lecho filtrante (1) Altura de material de 100 mm por encima de los brazos colectores desde el fondo del filtro.
DENSIDADES: Hydroantracita (0.8 kg/dm³) Arena (1.4 kg/dm³) Grava (1.5 kg/dm³).

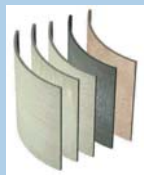
*Height of filter bed (1) Height of material 100 mm above collector arms from bottom of filter.
DENSITIES: Hydroanthracite (0.8 kg/dm³) Sand (1.4 kg/dm³) Gravel (1.5 kg/dm³).

Materiales de construcción del tanque según DIN 18820:

• Capa protectora química geocoat isoneopentilglicol de tipo CSS-UP3. De elevada dureza y resistente a la abrasión de la arena y al agua salada. • Cumple con la recomendación KTW y está certificado por LVHT. • Para la opción resistente al ozono la capa protectora química de vinylester es del tipo CSS-PHAS. • Laminado de resina de poliéster reforzados con fibra de vidrio no orientada de tipo GF-UP1. • Refuerzo en las zonas donde se practican las tabuladuras de tipo MW donde se alternan capas de fibras no orientadas con fibras orientadas. • Bobinado de capas radiales en la parte cilíndrica y polares a lo largo de todo el recipiente de tipo GF-UP1 realizado con máquinas de control numérico. • Característica principal de este tipo de filtros que les confiere una elevada resistencia mecánica para poder soportar la presión interna. • Capa protectora exterior de poliuretano resistente a UV. Todos los tanques se someten a un proceso de curado a 60°C.

Construction characteristics of the filter according to DIN 18820:

• Chemical protective gei-coat barrier isoneopentilglicol type CSS-UP3. Superior hardness and resistance to the abrasion of sand and salt water. • Complies with German standard KTW recommendations and certified by LVHT. • The chemical protective barrier vinylester offered as a resistance to ozone is type CSS-PHAS. • Polyester reinforced laminated resin with fibreglass filament type GF-UP1. • Reinforced in areas under greater stress with an additional weave matting, alternating fibres with fibres. • Bobin wound using computer controlled machines that lay down a set of radial bobbin layers on the cylindrical part and a set of polar bobbin layers along the whole filter with type GF-UP1. • The most essential characteristic of these filters is their ability to withstand greater internal pressures due to their design. • External protective layer of UV resistant polyurethane. • All filters are cured with an internal temperature of 60°C.



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Filtros bobinados verticales de alto rendimiento:
Olot, Oslo y Ampuria
La mejor elección para su piscina

Vertical high performance bobbin wound filters:
Olot, Oslo and Ampuria
The best choice for your pool



Filtros bobinados verticales de alto rendimiento Vertical high performance bobbin wound filters

Calidad de filtración, transparencia de agua

Los filtros bobinados verticales de alto rendimiento AstralPool están fabricados en poliéster reforzado con fibra de vidrio, totalmente anticorrosivos, presentando una elevada resistencia mecánica, química y térmica. Una de sus principales características es la altura del lecho filtrante, cuanto mayor sea ésta, mayor será su rendimiento.

Con un mayor poder de filtración se consigue una mejor calidad del agua. Al aumentar el poder de retención se reducen los índices de turbiedad y de contaminantes del agua filtrada.

El tiempo transcurrido entre lavados aumenta proporcionalmente con la altura del lecho, de forma que se producen menores interrupciones de la filtración, menor consumo de agua al disminuir el número de lavados necesarios y una menor erosión del material filtrante.

La mayor eficacia de filtración y lavado se obtiene de la óptima combinación entre antracita, arena y grava recomendada para lechos de 1,2 m y superiores, disminuyendo la pérdida de carga y aumentando el poder de retención.



Quality filtering, transparent water

AstralPool's vertical high performance bobbin wound filters are made of completely non-corrosive fiberglass reinforced polyester, giving high levels of mechanical, chemical and thermal resistance. One of their main characteristics is the height of the filter bed; best performance being obtained when this is highest.

Greater filtering power means better water quality. Increasing the retention capacity means the water filtered is cleaner and contains fewer contaminants.

Time between backwashes increases in proportion to the height of the filter bed, so that there are fewer interruptions in filtering, lower water consumption, with fewer backwashes needed, and less erosion of the filter material.

Greater efficiency of filtering and cleaning is obtained with the optimal combination of anthracite, sand and gravel recommended for beds of 1.2 metres or higher, reducing the material lost and increasing its power of retention.

Características:

- Temperatura máxima de funcionamiento 50°C.
- Cumplen con la Directiva Europea de Equipos a Presión 97/23/CE incluidos en el apartado 3 del artículo 3.
- Prueba hidráulica de presión 1,5 x presión máxima admisible.
- Los cálculos de resistencia y espesores están basados en las normas BS-4994 y AD-Merkblatt N1.
- Componentes interiores y tubería de PVC.
- Crepinas de PP.
- Conexión inferior para lavado con aire en modelos con placa de crepinas.
- Tornillería de acero inoxidable AISI-316.
- Juntas de EPDM.
- Posiciones de conexiones, mirillas y bocas a elección del cliente.
- Distintos diámetros de conexiones y purgas.

Characteristics:

- Maximum operating temperature 50°C.
- Meets section 3 of article 3 of European Pressure Equipment Directive 97/23/CE.
- Hydraulic pressure to 1.5 x maximum admissible pressure.
- Calculations of resistance and thickness based on BS-4994 and AD-Merkblatt N1 Standards.
- PVC interior components and tubing.
- PP nozzle plates.
- Connection for air jet washing in models with nozzle plates.
- Nuts and bolts in S.S. AISI-316
- EPDM seals and gaskets.
- Positions of connections, sightglasses and manholes made-to-measure.
- Different diameters for connections and drains.

| Specifications / Equipamiento | Oslo | Olet | Ampuria |
|---|------|------|---------|
| Manhole Ø 400 mm / Boca de acceso y carga superior Ø 400 mm | X | X | X |
| Upper air lock connection / Conexión purga de aire superior | X | X | X |
| Nozzle plates with 0.5 mm slots / Placa de crepinas con ranuras 0.5 mm | O | X | X |
| Collector arms with 0.3 mm slots / Braços colectores con ranuras 0.3 mm | X | - | - |
| Manhole under plate / Boca de acceso bajo placa | - | - | X |
| Operating pressure 2.5 bar / Presión de trabajo 2.5 bar | X | X | X |
| Operating pressure 4 bar / Presión de trabajo 4 bar | X | O | O |
| Lower water drain / Vaciado inferior de agua | X | X | X |
| Filter bed 1200 mm / Lecho filtrante 1200 mm | X | X | X |
| Filter bed 1500 mm / Lecho filtrante 1500 mm | - | X | X |
| Pressure gauge panel / Panel manómetros | X | X | X |

| Options / Opciones | Código/Code | Oslo | Olet | Ampuria |
|--|-------------|------|------|---------|
| Manhole Ø 500 mm / Boca de acceso lateral Ø 500 mm | 27950 | O | O | O |
| Manhole Ø 600 mm / Boca de acceso lateral Ø 600 mm | 27951 | O | O | O |

X - Standard / De serie O - Optional / Opcional - Not available / No disponible



- **Recubrimiento interior vinylester:** Para recubrimientos interiores resistentes al ozono (concentraciones máx. de ozono 0,4 ppm) u otros agentes, es indispensable especificar claramente las características del líquido a filtrar, para poder fabricar el filtro bajo pedido.
- **Conexión inferior para lavado de aire,** incluida de serie solamente en todos los modelos con placa de crepinas.
- **Descarga de arena inferior,** solamente en modelo Oslo con brazos colectores.
- Opcionalmente se puede suministrar batería de válvulas manuales y automáticas (eléctricas o neumáticas) con su correspondiente armarío de maniobras.
- Consultar para otras opciones y presiones.
- Posibilidad de fabricación de alturas especiales bajo pedido.
- **Vinylester interior;** for ozone-resistant interior coverings (max. ozone concentration 0.4 ppm), or for other agents, it is vital to specify clearly the characteristics of the liquid to be filtered, in order for the filter to be custom-made.
- **Bottom connection for air jet washing,** included as standard only in all models with nozzle plates.
- **Bottom sand outlet,** only with Oslo model with collector arms.
- Optionally, a manual and automatic valve battery (electric or pneumatic) can be supplied, with its corresponding control panel.
- Check with us for other options and pressures.
- Special heights can be made on demand.



Codificación filtros industriales

La estructura del código del filtro está formada por ocho dígitos. Los primeros cinco dígitos pertenecen al código del filtro y los tres últimos dígitos corresponden al modelo, los cuales vienen dados según tablas.

Industrial filter codification

The structure of the filter code is composed of eight digits. The first five digits correspond to the filter code and the last three digits correspond to the model - this information is given in tables.

Posición de la 1 a la 5: código de 5 cifras del producto estándar.
Position 1 to 5: Five digit code of the standard product.

Posición / Position 1 2 3 4 5 - 6 7 8

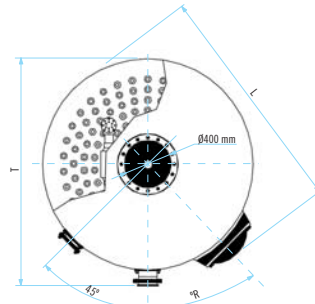
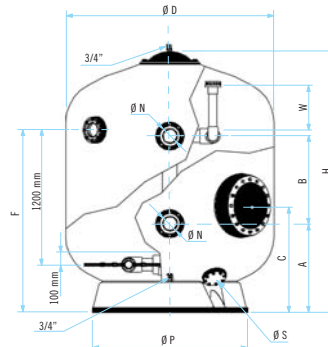
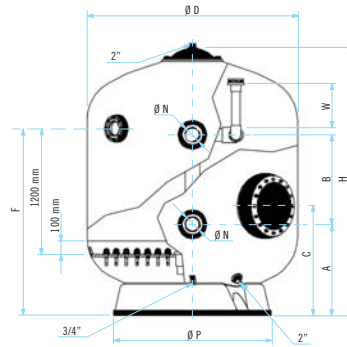
| Posición / Position 6 Define las opciones de placa y vinylester Defines the nozzle plate and vinylester options | Posición / Position 7 Define las opciones de boca Defines manhole options | Posición / Position 8 Define las opciones de mirilla Defines sightglass options |
|---|---|---|
| 0 Filtro sin placa Filter without nozzle plate | 0 Sin bocas No manholes | 0 Sin mirillas No sightglass |
| 1 Filtro con placa Filter with nozzle plate | 1 boca de ø 225 mm 1 ø 225 mm manhole | 1 1 mirilla para filtro laminado 1 sightglass for laminated filter |
| 2 Acabado vinylester Vinylester finish | 2 boca de ø 400 mm 2 ø 400 mm manhole | 2 1 mirilla ø 135 mm 1 ø 135 mm sightglass |
| 3 Con placa y vinylester With nozzle plate and vinylester | 3 2 bocas de ø 225 mm 2 ø 225 mm manholes | 3 2 mirillas para filtro laminado 2 sightglass for laminated filter |
| | 4 2 bocas de ø 400 mm 2 ø 400 mm manholes | 4 2 mirillas ø 135 mm 2 ø 135 mm sightglass |

Rogamos consultar precio de las distintas opciones:

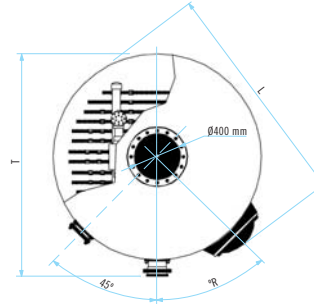
- Acabado vinylester
- Boca de ø 225 mm y de ø 400 mm
- Mirilla

Please consult prices of the different options:

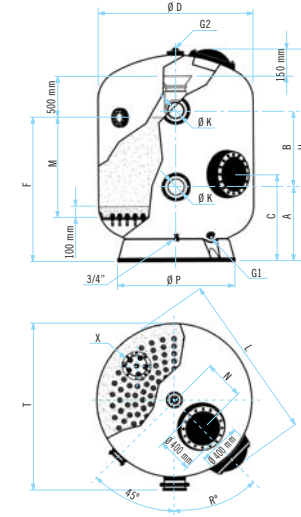
- Vinylester finish
- ø 225 mm and ø 400 mm manhole
- Sightglass



Placa de crepinas
Nozzle plate



Brazos colectores
Collectro arms

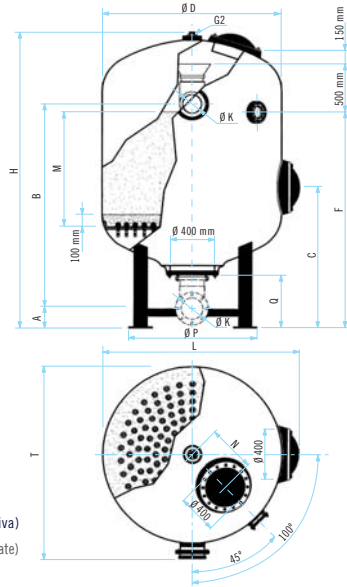


| Ø mm | Código / Code 2,5 bar | Código / Code 4 bar | Vel. Filtración Filtration velocity (m ³ /h/m ²) | Ø N (mm) | Caudal Flow rate (m ³ /h) | Area de filtración Filtration area (m ²) | Vol. (l) | A (mm) | B (mm) | C (mm) | F (mm) | H (mm) | L (mm) | Ø P (mm) | °R (mm) | Ø S (mm) | T (mm) | W (mm) | Peso total en servicio Total service weight (kg) | |
|------|-----------------------|---------------------|---|----------|--------------------------------------|--|----------|--------|--------|--------|--------|--------|--------|----------|---------|----------|--------|--------|--|-------|
| 1050 | 04611 | 05168 | 30 | 75 | DN65 | 25 | 0,86 | 1500 | 650 | 940 | 770 | 1550 | 2070 | 1240 | 750 | 55 | 90 | 1220 | 325 | 2450 |
| | 04612 | 05173 | 40 | 90 | DN80 | 34 | | | | | | | | | | | | | | |
| 1200 | 04613 | 05169 | 30 | 75 | DN65 | 33 | 1,13 | 1860 | 670 | 830 | 770 | 1550 | 2080 | 1390 | 940 | 45 | 90 | 1380 | 350 | 3000 |
| | 04650 | 05174 | 40 | 110 | DN100 | 45 | | | | | | | | | | | | | | |
| 1400 | 04615 | 07436 | 30 | 90 | DN80 | 46 | 1,54 | 2700 | 680 | 820 | 840 | 1570 | 2175 | 1590 | 1085 | 45 | 90 | 1570 | 350 | 4300 |
| | 04616 | 07437 | 40 | 125 | DN110 | 61 | | | | | | | | | | | | | | |
| 1600 | 04619 | 05170 | 30 | 110 | DN100 | 60 | 2,01 | 3620 | 780 | 800 | 870 | 1625 | 2310 | 1790 | 1230 | 45 | 140 | 1780 | 400 | 5825 |
| | 04651 | 05175 | 40 | 140 | DN125 | 80 | | | | | | | | | | | | | | |
| 1800 | 04623 | 07438 | 30 | 125 | DN110 | 76 | 2,54 | 4725 | 790 | 780 | 950 | 1625 | 2320 | 1990 | 1370 | 45 | 140 | 2000 | 400 | 7300 |
| | 04624 | 07439 | 40 | 160 | DN150 | 101 | | | | | | | | | | | | | | |
| 2000 | 04626 | 05171 | 30 | 125 | DN110 | 94 | 3,14 | 5800 | 790 | 840 | 950 | 1695 | 2460 | 2190 | 1550 | 45 | 140 | 2200 | 400 | 9000 |
| | 04652 | 05176 | 40 | 160 | DN150 | 125 | | | | | | | | | | | | | | |
| 2350 | 08693 | 05172 | 30 | 140 | DN125 | 130 | 4,34 | 8800 | 1065 | 700 | 1030 | 1850 | 2720 | 2550 | 1830 | 45 | 140 | 2550 | 500 | 13750 |
| | 08694 | 05177 | 40 | 200 | DN175 | 175 | | | | | | | | | | | | | | |
| 2500 | 08704 | 08712 | 30 | 160 | DN150 | 150 | 4,90 | 9850 | 1125 | 450 | 1080 | 1760 | 2750 | 2700 | 1830 | 45 | 140 | 2750 | 500 | 14885 |
| | 08706 | 08714 | 40 | 225 | DN200 | 200 | | | | | | | | | | | | | | |
| 3000 | 08708 | 08716 | 30 | 200 | DN175 | 212 | 7,07 | 15350 | 1150 | 600 | 1140 | 1870 | 2950 | 3200 | 2365 | 45 | 140 | 3200 | 500 | 21615 |
| | 08710 | 08718 | 40 | 250 | DN225 | 282 | | | | | | | | | | | | | | |

Altura lecho filtrante: 1,2 m
Height of filter bed: 1,2 m

| Ø D (mm.) | 1050 | 1200 | 1400 | 1600 | 1800 | 2000 | 2350 | 2500 | 2600 | 2800 | 3000 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Velocidad Filtración Filtration Velocity (m ³ /h/m ²) | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Ø K (mm) | 110 | 125 | 140 | 160 | 200 | 225 | 250 | 250 | 250 | 250 | 250 |
| Código / Code | 07355 | 07356 | 07447 | 07357 | 07448 | 07358 | 07359 | 19335 | 23969 | 23970 | 19336 |
| H (mm) | 2380 | 2400 | 2520 | 2520 | 2570 | 2660 | 2800 | 2850 | 2920 | 3030 | 2900 |
| F (mm) | 1615 | 1635 | 1645 | 1690 | 1740 | 1755 | 1875 | 1870 | 1880 | 1920 | 1880 |
| Vol. (l) | 1735 | 2175 | 3000 | 4350 | 5450 | 6650 | 9575 | 11700 | 12800 | 15500 | 18000 |
| Peso total en servicio Total service weight (kg) | 2600 | 3325 | 4475 | 6250 | 7500 | 9625 | 13600 | 15500 | 16650 | 19500 | 22500 |
| Código / Code | 18227 | 18228 | 18229 | 18230 | 18231 | 18232 | 18233 | 19337 | 23971 | 23972 | 19338 |
| H (mm) | 2680 | 2700 | 2820 | 2820 | 2870 | 2960 | 3100 | 3150 | 3220 | 3330 | 3200 |
| F (mm) | 1915 | 1935 | 1945 | 1990 | 2040 | 2055 | 2175 | 2170 | 2180 | 2220 | 2180 |
| Vol. (l) | 1995 | 2745 | 3590 | 5150 | 6350 | 7650 | 11255 | 12950 | 14100 | 16900 | 19700 |
| Peso total en servicio Total service weight (kg) | 3000 | 3900 | 5300 | 7150 | 8750 | 11250 | 15800 | 17950 | 19400 | 22600 | 26250 |
| Caudal Flow Rate (m ³ /h) | 25 | 33 | 46 | 60 | 76 | 94 | 130 | 150 | 160 | 185 | 212 |
| Área de filtración Filtration area (m ²) | 0,86 | 1,13 | 1,54 | 2,01 | 2,54 | 3,14 | 4,34 | 4,90 | 5,31 | 6,16 | 7,07 |
| Número de crepinas Number of nozzles | 59 | 78 | 102 | 134 | 168 | 200 | 286 | 333 | 333 | 381 | 433 |
| A (mm) | 700 | 700 | 830 | 830 | 900 | 950 | 1050 | 1100 | 1160 | 1230 | 1140 |
| B (mm) | 1000 | 1000 | 900 | 950 | 920 | 760 | 680 | 600 | 600 | 650 | 600 |
| C (mm) | 830 | 840 | 840 | 870 | 950 | 950 | 1030 | 1100 | 1200 | 1230 | 1220 |
| L (mm) | 1240 | 1390 | 1590 | 1790 | 1990 | 2190 | 2550 | 2700 | 2800 | 3000 | 3200 |
| Ø P (mm) | 750 | 940 | 1085 | 1230 | 1370 | 1550 | 1830 | 1830 | 1830 | 2365 | 2365 |
| T (mm) | 1220 | 1380 | 1570 | 1780 | 2000 | 2200 | 2550 | 2750 | 2800 | 3000 | 3200 |
| N (mm) | 0 | 130 | 130 | 400 | 450 | 480 | 550 | 700 | 600 | 600 | 720 |
| Ø X Tapa de registro (mm) | 125 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| Ø X Underdrain plate access hole | | | | | | | | | | | |
| ° R | 55° | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° |
| Ø J (mm) | 380 | 380 | 380 | 380 | 380 | 380 | 600 | 600 | 600 | 600 | 600 |
| Ø G1 | 2" | 2" | 2" | 2" | 2" | 2" | 75 | 75 | 75 | 90 | 110 |
| Ø G2* | 2" | 2" | 2" | 2" | 2" | 2" | 75 | 75 | 75 | 75 | 75 |

* En los modelos de Ø 1050 mm, 1200 mm y 1400 mm, esta conexión está acoplada en la tapa.
* In models Ø 1050 mm, 1200 mm and 1400 mm, this connection is connected to the cover.



La conexión inferior no va incluida con el filtro (Cota A orientativa)
Bottom connection not included with filter (Dimension A approximate)

| | Ø D (mm.) | 1050 | 1200 | 1400 | 1600 | 1800 | 2000 | 2350 | 2500 | 2600 | 2800 | 3000 |
|---|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Velocidad Filtración Filtration Velocity (m ³ /h/m ²) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Ø K (mm) | | 110 | 125 | 140 | 160 | 200 | 225 | 250 | 250 | 250 | 250 | 250 |
| | | DN100 | DN110 | DN125 | DN150 | DN175 | DN200 | DN225 | DN225 | DN225 | DN225 | DN225 |
| ALDURA LECHO FILTRANTE HEIGHT OF FILTER BED 1,2 m | Código / Code | 22454 | 22455 | 22456 | 22457 | 22458 | 22459 | 22460 | 22461 | 23973 | 23974 | 22462 |
| | H (mm) | 3040 | 3100 | 3250 | 3260 | 3390 | 3480 | 3800 | 3800 | 3880 | 4040 | 3900 |
| | F (mm) | 2280 | 2340 | 2380 | 2380 | 2530 | 2550 | 2840 | 2700 | 2830 | 2940 | 2880 |
| | Vol. (l.) | 1995 | 2745 | 3590 | 5150 | 6350 | 7650 | 11255 | 12950 | 14100 | 16900 | 19700 |
| | Peso total en servicio Total service weight (kg) | 3025 | 3925 | 5325 | 7175 | 8800 | 11300 | 15850 | 18000 | 19450 | 22700 | 26350 |
| ALDURA LECHO FILTRANTE HEIGHT OF FILTER BED 1,5 m | Código / Code | 22445 | 22446 | 22447 | 22448 | 22449 | 22450 | 22451 | 22452 | 23975 | 23976 | 22453 |
| | H (mm) | 2740 | 2800 | 2950 | 2960 | 3090 | 3180 | 3500 | 3500 | 3580 | 3740 | 3600 |
| | F (mm) | 1980 | 2040 | 2080 | 2180 | 2230 | 2250 | 2540 | 2400 | 2530 | 2640 | 2580 |
| | Vol. (l) | 1735 | 2175 | 3000 | 4350 | 5450 | 6650 | 9575 | 11700 | 12800 | 15500 | 18000 |
| | Peso total en servicio Total service weight (kg) | 2625 | 3350 | 4500 | 6275 | 7550 | 9675 | 13650 | 15550 | 16700 | 19600 | 22600 |
| | Caudal Flow Rate (m ³ /h) | 25 | 33 | 46 | 60 | 76 | 94 | 130 | 150 | 160 | 185 | 212 |
| | Área de filtración Filtration Area (m ²) | 0,86 | 1,13 | 1,54 | 2,01 | 2,54 | 3,14 | 4,34 | 4,90 | 5,31 | 6,16 | 7,07 |
| | Número de crepinas Number of nozzles | 57 | 83 | 113 | 145 | 179 | 221 | 309 | 355 | 355 | 403 | 455 |
| | A (mm) | 260 | 260 | 260 | 270 | 200 | 200 | 250 | 280 | 250 | 270 | 290 |
| | B (mm) | 1800 | 1850 | 1900 | 2020 | 2140 | 2030 | 2160 | 2030 | 2170 | 2310 | 2200 |
| | C (mm) | 1190 | 1245 | 1270 | 1380 | 1470 | 1470 | 1710 | 1700 | 1850 | 1950 | 1900 |
| | L (mm) | 1240 | 1390 | 1590 | 1790 | 1990 | 2190 | 2550 | 2700 | 2800 | 3000 | 3200 |
| | P (mm) | 820 | 820 | 1000 | 1000 | 1310 | 1310 | 1570 | 1570 | 1900 | 1470 | 1470 |
| | T (mm) | 1220 | 1380 | 1570 | 1780 | 2000 | 2200 | 2550 | 2750 | 2800 | 3000 | 3200 |
| | N (mm) | 0 | 130 | 130 | 400 | 450 | 480 | 550 | 700 | 600 | 600 | 720 |
| | Ø J (mm) | 380 | 380 | 380 | 380 | 380 | 380 | 600 | 600 | 600 | 600 | 600 |
| | Ø G2* | 2" | 2" | 2" | 2" | 2" | 2" | 75 | 75 | 75 | 75 | 75 |
| | Q (mm) | 450 | 480 | 480 | 530 | 550 | 550 | 700 | 670 | 700 | 770 | 770 |

* En los modelos de Ø 1050 mm, 1200 mm y 1400 mm, esta conexión está acoplada en la tapa.
* In models Ø 1050 mm, 1200 mm and 1400 mm, this connection is connected to the cover.



Mirilla

Para inspección regular del nivel de arena y comprobación de la expansión del lecho durante la fase de lavado. Puede colocarse en distintas posiciones.

Sightglass

For regular inspection of sand level and checking expansion of filter bed during backwash phase can be placed in different positions.



Boca de acceso lateral

Para descarga del medio filtrante y facilitar el acceso al interior. Puede colocarse en distintas posiciones.

Manhole

For offloading filter material and facilitating access to interior, can be placed in different positions.

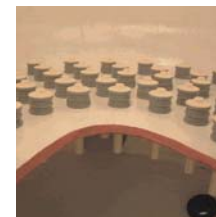


Colectores

Sistema colector de brazos con ranuras de 0,3 mm distribuidos uniformemente para una correcta circulación del agua.

Collector arms

System of collector arms with 0.3 mm slots uniformly distributed for proper water circulation.



Placa de crepinas

Sistema de falso fondo con placa de crepinas con ranuras de 0,5 mm para lavado con aire. Con el aporte de aire durante la fase de lavado se disminuye el consumo de agua reduciendo costes y contribuyendo en la preservación de las reservas de agua. Se eliminan también las zonas de agua estancada que existen en los modelos convencionales de brazos colectores.

Nozzle plate

False bottom system with nozzle plates with 0.5 mm slots for air jet washing. Using air during the backwash phase saves on water consumption, reducing costs and helping conserve water reserves. Also eliminates zones of stagnant water to be found with conventional collector arm models.