GAS PHASE FILTRATION

CHEMCONTROL MODULES , HM MODULES, CHEMCONTROL PELLETS, CHEMCONTROL SYSTEMS, CHEMWATCH, CARBOPLEAT / DUOPLEAT, CHEMCONTROL FILTERS, ACTIVATED-CARBON CARTRIDGES

CarboPleat activated-carbon and DuoPleat combination filters improve indoor air quality und protect people as well as sensitive products, processes and equipment, by eliminating or reducing pollutant gases and unwanted odors. Viledon® ChemControl pellets are used for the prevention of corrosion. They remove contaminant gases by means of adsorption, absorption and chemisorption.

GAS PHASE FILTERS

MODULES | CHEMCONTROL MODULES

SPECIFICATIONS	
Adsorption medium	e.g. ChemControl Pellets
Operating temperature	< 50 °C
Thermal stability (plastic)	120 °C
Moisture resistance	< 60 % rel. hum.
Frame	plastic, black
Removable caps	plastic, black

Applications

Viledon® ChemControl Modules are the rugged plastic housings that contain our chemical filtration pellets. They come in a range of four sizes to suit all applications and are designed for easy handling and replacement. They can be supplied pre-filled, direct from our production facilities, or refilled via their easy-access removable caps.

The design of your system will determine which size of module you require. Factors that need to be taken into consideration include available space, airflow volumes, type and concentration of contaminants and desired media life.

Features and benefits

Proven performance and low whole-life costs. As with all Viledon® products, our ChemControl Modules offer excellent airflow performance with low pressure drops. We have designed our modules to minimize maintenance time and reduce whole-life costs.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	DIMENSIONS (L × W × D) [mm]	WEIGHT [kg]	DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]
CCM 1810	598 × 438 × 144	3.4	25.4	600	35
CCM 1210	598 × 295 × 299	2.9	76	600	180
CCM 1805	299 × 438 × 144	2	25.4	300	35
CCM 1205	299 × 295 × 299	1.8	76	300	180

GAS PHASE FILTERS

MODULES | HM MODULES

SPECIFICATIONS	
Adsorption medium	Versacomb Honeycomb media
Operating temperature	< 50 °C
Thermal stability	76 °C
Recommended Humidity	< 60 % rel. hum.
Moisture resistance	99 % rel. hum., non-condensing

The Viledon® HM® modules are an assembly of Versacomb™ media housed in either a plastic or metallic frame for removing gas-phase contaminants from outdoor or recirculated air. The module is available in nominal depths of one, two, four and six inches as standard. Viledon® HM® modules are designed to fit in a side-access filter rack or a Type 8 filter frame, and are available with or without a header.

Applications

Refineries, petrochemical plants, electric centers, paper mills, wastewater treatment plants, museums, archives, hospitals, data centers, break rooms, laboratories, commercial and industrial offices.

Features and benefits

- Provides protection from gas-phase contaminants.
- Can be installed in a standard filter rack.
- Can be mounted horizontally or vertically.
- Frame options: Stainless steel, aluminum and plastic are available for most sizes.
- Can be used at face velocities up to 2.5 m/s.
- By weight removal capacity of up to 40 % for H_2S, 4 % for Cl_2, 9 % for Toluene and 13 % for Xylene.
- Easy to install (no need for vacuum trucks).
- Economical and energy-efficient.

Delivery notes

Customized dimensions available on request.

ARTICLE	DIMENSIONS (L × W × D) [mm]	WEIGHT [kg]	GASKETING THICKNESS [mm]
HM01-P-289x594x44-Z08B20	289 × 594 × 44 *	2.2	
HM01-P-594x594x44-Z08B20	594 × 594 × 44 *	4.3	
HM01-P-594x594x99-Z08B20	594 × 594 × 99 *	9.3	
HM01-P-495x495x99-N68B22	495 × 495 × 99 *	7.7	6.35
HM01-P-348x348x152-N68B22	348 × 348 × 152 *	5.8	6.35

* Example module sizes – others available.

GAS PHASE FILTERS

PELLETS | CHEMCONTROL PELLETS

SPECIFICATIONS	
Operating temperature	–20 °C up to +50 °C
Moisture resistance	10–95 % rel. hum., non-condensing
Face velocity	0.3–2.5 m/s

Application

Viledon® ChemControl Pellets are used in different areas for the prevention of corrosion caused by acidic gases. Special pellets are used for ammonia and chlorine.

- Paper and chemical pulp industrie
- Petrochemistry
- Mining
- Chemical industry
- Pharmaceutical industry
- Computer center
- Labs
- Microelectronics
- Fertilizer

CCP 104

Used for the prevention of corrosion caused by acidic gases. Remove contaminant gases by adsorption, absorption and chemisorption. Contain a minimum of 4 % potassium permanganate to eliminate contaminants via oxidation reaction to inactive solids.

CCP 108

Used for the prevention of corrosion caused by acidic gases. Remove contaminant gases by adsorption, absorption and chemisorption. Contain a minimum of 8 % potassium permanganate to eliminate contaminants via oxidation reaction to inactive solids.

CCP 210

Designed to remove or destroy airborne acidic gases by oxidation. Especially high reactivities and removal capabilities, even at high contaminant concentrations. Contain a mix of sodium and potassium permanganate at minimum 10 % by weight.

CCP 310

Ideal for filtration of acidic gases in highly corrosive environments. Very effective in removing hydrogen sulfide, sulfur dioxide and chlorine. Porous structure based on activated alumina impregnated with activated carbon.

Delivery notes

Other ChemControl pellets are available on request – especially custom formulations with impregnations for specific gaseous contaminants.

ARTICLE	DIAMETER [mm]	REMOVAL CAPACITY FOR H_2S OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR SO_2 OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR CL_2 OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR NH_3 OF OWN WEIGHT [%]	MOISTURE CONTENT (APPROX.) [%]	CRUSH STRENGTH (MINIMUM) [kg]
CCP 104	3.80	7	4			20	2
CCP 108	3.80	14	7			20	2
CCP 210	3.80	25	12			20	2
CCP 310	3.80	15	10	10		20	2
CCP 510	3.80			15		15	2

GAS PHASE FILTERS

PELLETS | CHEMCONTROL PELLETS

SPECIFICATIONS	
Operating temperature	–20 °C up to +50 °C
Moisture resistance	10–95 % rel. hum., non-condensing
Face velocity	0.3–2.5 m/s

CCP 510

Used especially for removal of gaseous halogens from airstreams. Capture chlorine, bromine and iodine by adsorption and absorption. Highly porous structure of activated alumina impregnated with active ingredients.

CCP 610

Used for the filtration of airborne contaminant gases e. g. hydrocarbons, VOCs, chlorine and nitrogen dioxide. Consist of virgin activated carbon with very high inner surface area to achieve excellent adsorption capacities. Very low resistance to airflow and long service life.

CCP 810

Blended pellets used for filtration of gaseous contaminants. 50:50 mix of CCP 108 and CCP 610 provides excellent adsorption, absorption and chemisorption.

CCP 830

Blended pellets used for filtration of gaseous contaminants. 50:50 mix of CCP 210 and CCP 610 provides excellent adsorption, absorption and chemisorption.

CCP 840

Blended pellets used for filtration of gaseous contaminants. 50:50 mix of CCP 310 and CCP 610 provides excellent adsorption, absorption and chemisorption.

CCP 903

Specifically used for removal of gaseous ammonia from airstreams. They capture ammonia by means of adsorption and absorption inside their zeolite structure.

Please note:

All application information provided are subject to on-site conditions, specific application requirements and potential alternating effects by combining several ChemControl Pellets in multi-stage units. Please consult your local Viledon® partner for further information.

Delivery notes

Other ChemControl pellets are available on request – especially custom formulations with impregnations for specific gaseous contaminants.

ARTICLE	DIAMETER [mm]	REMOVAL CAPACITY FOR H_2S OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR SO_2 OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR CL_2 OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR NH_3 OF OWN WEIGHT [%]	MOISTURE CONTENT (APPROX.) [%]	CRUSH STRENGTH (MINIMUM) [kg]
CCP 610	4×8			10		3	2
CCP 810	3.80; 4×8	7	3	4			2
CCP 830	3.80; 4×8	18	8	4			2
CCP 840	3.80; 4×8	12	6	10			2
CCP 903	3.80				10		3

GAS PHASE FILTERS

SYSTEMS | CHEMCONTROL DEEP-BED PRESSURIZATION UNITS

SPECIFICATIONS	
Housing	Plastisol inner/outer skin panels, with aluminium extrusion frame, alternatively stainless steel constructions available
Prefiltration	e. g. Viledon® Compact pocket filters
Adsorption medium	ChemControl Pellets, as deep bed stage or with ChemControl Modules
Fine filtration	e. g. Viledon® MaxiPleat cassette filters
Fan	energy-saving EC motor, meeting the ErP 2015 directive for increased minimum efficiency ratings

Application

Many industrial processes generate contaminant gases that can cause corrosion. Even minor damage to electronic components can have serious consequences, e. g. fault signals, unplanned downtime, high repair costs. The Viledon® ChemControl Deep-Bed Pressurization Units (DBPU) are multi-stage filtration systems that reliably provide complete protection against corrosion. The Viledon® DBPUs are used for medium to high concentrations of gaseous contaminants. The system is placed outside the protected area and supplies purified air into it. Hence, the Viledon® DBPUs provide a positive pressure inside the proteced area. They are particularly designed for paper mills, refineries, smelters, steel and chemical plants. In the Viledon® DBPU, Viledon® Compact pocket filters are used in the pre-filtration stage. Viledon® MaxiPleat cassette filters ensure secure fine filtration. The progressive media design, moisture resistance up to 100 % relative humidity (no risk of filter collapse) and high dust holding capacities result in improved energy consumption over generic industry filters due to homogeneous air flow coupled with a low average pressure drop.

Features and benefits

- Boxed anodized aluminum pentapost frame and high strength 30 mm double skin plastisol panels as standard offer reduced leakage rates of L 3 in accordance with EN1886, compared to single skin products.
- High quality assembly ensures a smooth interior surface, thereby minimizing frictional losses and providing a positive air seal where panels are fitted to the frames.
- Units equipped with two deep bed stages; optionally availabe with third or fourth stage for higher gas concentrations.
- Panel construction offers increased acoustic properties over single skin versions with a case reduction index as follows:
- Frequency Hz: 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k
  Casing reduction index: −11 | −14 | −14 | −24 | −25 | −25 | −25 | −23
- Integrated pressure gauges allow clear monitoring onsite.
- Internal and external weatherproof designs available.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	CONSTRUCTION	AIR INTAKE	AIR OUTLET	AIR VOLUME [m³/h]	NUMBER OF PRE-FILTERS	NUMBER OF FINE FILTERS	OVERALL UNIT HEIGHT (EXCLUDES REFILL PORTS) [mm]	OVERALL UNIT WIDTH (EXCLUDING CONTROL PANEL)** [mm]	OVERALL UNIT LENGTH (EXCLUDING DUCT CONNECTIONS) [mm]	OVERALL WEIGHT (EXCLUDING FILTERS AND PELLETS)*** [kg]	POWER CONSUMPTION AVERAGE [kW]	CONTROL PANEL
DBPU 1000 Indoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Duct	Duct	1,000	1	1	1,076	700	3,700	400	1.35	IP 54
DBPU 3000 Indoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Duct	Duct	3,000	4	4	1,576	1,280	3,700	700	2.30	IP 54
DBPU 6000 Indoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Duct	Duct	6,000	9	9	2,176	1,900	3,700	900	4.70	IP 54
DBPU 1000 Outdoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Louvre	Duct	1,000	1	1	1,076	700	3,700	420	1.35	IP 66
DBPU 3000 Outdoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Louvre	Duct	3,000	4	4	1,576	1,280	3,700	740	2.30	IP 66
DBPU 6000 Outdoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Louvre	Duct	6,000	9	9	2,176	1,900	3,700	960	4.70	IP 66

* Stainless steel construction available. All units are supplied as standard in one section. Section breaks can be added as an option.

** Customized unit dimensions are available on request.

*** All units are optionally available with Viledon® CCM 1205 modules.

Subject to technical changes.

GAS PHASE FILTERS

SYSTEMS | CHEMCONTROL RECIRCULATION UNITS

SPECIFICATIONS	
Housing	Plastisol inner/outer skin panels, with aluminium extrusion frame, alternatively stainless steel constructions available
Prefiltration	e. g. Viledon® pocket filters
Adsorption medium	ChemControl Modules filled with ChemControl Pellets
Fine filtration	e. g. Viledon® MaxiPleat cassette filters
Fan	energy-saving EC motor, meeting the ErP 2015 directive

Application

Many industrial processes generate contaminant gases that can cause corrosion. Even minor damage to electronic components can have serious consequences, e. g. fault signals, unplanned downtime, high repair costs. The Viledon® ChemControl Recirculation Unit (CRU) and the Viledon® ChemControl Recirculation Pressurization Unit (CRPU) are multi-stage filtration systems that reliably provide complete protection against corrosion.

In both systems, Viledon® Compact pocket filters are used in the pre-filtration stage. Positioned before and after the fan, the Viledon® ChemControl Modules with pellets eliminate harmful gases. Viledon® MaxiPleat cassette filters ensure secure fine filtration. Integrated pressure gauges allow for reliable monitoring onsite.

Viledon® CRU: The 'recirculating air filtration' system

The Viledon® ChemControl Recirculation Unit (CRU) is a system fully based on recirculated air filtration. This makes it an ideal addition for rooms that are supplied with filtered air and maintained at positive pressure using a Viledon® ChemControl Deep-Bed Pressurization Unit (DBPU).

Viledon® CRPU: The 'outside air + recirculating air filtration' system for overpressure generation

Using an admixture of outside air, the Viledon® ChemControl Recirculation Pressurization Unit (CRPU) can maintain a slight positive pressure within the room to be protected. At moderate concentrations of corrosive gases, the Viledon® CRPU can be operated without the use of a Viledon® ChemControl Deep-Bed Pressurization Unit.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	NOMINAL VOLUME FLOW [m³/h]	DIMENSIONS (H×W×D) [mm]	WEIGHT [kg]	NUMBER OF MODULES PER STAGE	NUMBER OF PRE-FILTERS	NUMBER OF FINE FILTERS	POWER CONSUMPTION AVERAGE [kW]
VILEDON CRU*							
CRU 1800 DW	1,800	2,600×750×750	550	4	1	1	0.8
CRU 1800 DW stainless steel**	1,800	2,600×750×750	580	4	1	1	0.8
CRU 3600 DW	3,600	2,600×1,500×750	650	8	2	2	1.3
CRU 3600 DW stainless steel**	3,600	2,600×1,500×750	680	8	2	2	1.3
VILEDON CRPU*							
CRPU 1800 DW	1,800	2,600×750×750	560	4	1	1	0.8
CRPU 1800 DW stainless steel**	1,800	2,600×750×750	590	4	1	1	0.8
CRPU 3600 DW	3,600	2,600×1,500×750	660	8	2	2	1.3
CRPU 3600 DW stainless steel**	3,600	2,600×1,500×750	690	8	2	2	1.3

* Standard casing: double wall casing ensuring low noise, manufactured using alumina corners and panels with plastisol coating.

** Stainless steel casing also available as single wall (SW) model.

GAS PHASE FILTERS

SYSTEMS | HM VAPOR ADSORBER

The Viledon® HM Vapor Adsorber Series 500HM, 1000HM and 2000HM are complete, skid-mounted systems used to control organic and inorganic gaseous contaminants by activated carbon adsorption and chemical reaction.

They provide highly purified makeup air for pressurizing control rooms to prevent the intrusion of contaminated air.

Each system is pre-engineered and includes a fan, a particulate pre-filter, four passes of honeycomb matrix (HM) activated carbon modules with Versacomb media and a particulate final filter.

Application

- refineries
- petrochemical plants
- electric centers
- paper mills
- wastewater treatment plants
- museums
- archives
- hospitals
- data centers
- break rooms
- laboratories
- commercial and industrial offices

Features and benefits

- Versacomb media provide protection from corrosive gases e. g. H_2S, SO_2 and Cl_2.
- Suitable for the adsorption of hydrocarbons and VOCs.
- Open honeycomb structure leads to fast reaction kinetics combined with a low pressure drop.
- The media can be engineered to meet specific performance requirements such as pressure drop, maximum face velocity and residence time.

ARTICLE	AIR VOLUME [m³/h]	DIMENSIONS (H×W×D) [mm]	NUMBER OF HM MODULES	WEIGHT, EMPTY [kg]	WEIGHT, WITH MODULES [kg]
500HM	860	2,007×660×851	4	147	176
1000HM	1,700	1,496×1,321×1,016	8	193	251
2000HM	3,400	1,591×1,778×1,143	16	236	352

GAS PHASE FILTERS

CHEMWATCH | ONLINE MONITORING SYSTEM

SPECIFICATIONS	
Dimensions (W × H × D)	180 × 180 × 85 mm
Weight	1,100 g
Operating temperature	0 – 50 °C
Relative humidity	10 – 95 %

Application

The ChemWatch Online Monitoring System measures and monitors the corrosivity of air in rooms via copper and silver sensors. Corrosivity is usually caused by acid gases such as H_2S, SO_2, SO_3, Cl_2, Cl_2O, NO_X, or NH_3.

The online monitoring system is suitable to measuring corrosive gases in the range from low ppb to a maximum of 1 to 3 ppm. The sensors are consumed as they measure the corrosivity and thus need to be replaced from time to time. The corrosion rate is determined according to ANSI/ ISA-71.04-2013.

Measurements

- Corrosion rate (Copper and Silver).
- Temperature.
- Relative humidity.
- Differential pressure (positive pressure).

Features and benefits

- Large color display for clear visibility of all measurements at a glance.
- Optimal data information thanks to graphically visualized G-classification.
- Data transfer via LAN, WiFi or Bluetooth to PC, control station, or Smartphone.
- Large data storage capacity with data history.
- Unsusceptible to vibrations.
- Precise corrosion rates independent from temperature fluctuations.
- All measured values logged directly from the beginning.
- Easy adjusting of individual measuring tasks – direct at the instrument or via PC.
- CE mark.
- 8 standard languages: English, Chinese, French, German, Italian, Japanese, Portuguese and Spanish (additional languages are available on request).
- The user can create notes – which can be linked to the measured data.
- Metric and imperial units available.

Equipment

- Measuring instrument.
- 1 set of corrosion sensors copper and silver.
- Software for data visualization and analysis (e. g. diagrams).
- SD-card for maximum data logging capacity and easy software updates.
- Detailed operating manual instruction in several languages.
- Power supply unit including adapter set for all common outlets.

Delivery notes

WiFi and Bluetooth modules can be inserted into the instrument as option.

ARTICLE	ARTICLE NUMBER
ChemWatch Instrument	53496605
ChemWatch Cu Sensor	53496606
ChemWatch Ag Sensor	53496607
ChemWatch WLAN Modul	53496608
ChemWatch Bluetooth Modul	53496609

GAS PHASE FILTERS

CARBOPLEAT / DUOPLEAT | FINE DUST

SPECIFICATIONS	
Recommended duty temperature	< 30 °C
Thermal stability	70 °C
Recommended duty humidity	< 60 % rel. hum.

Application

CarboPleat activated-carbon and DuoPleat combi filters improve the air quality in indoor environments and protect both people and sensitive products, processes and lines, by eliminating or reducing environmental pollutants and unwanted odors.

The activated-carbon media of both filters are fixed in place using a special bonding process, and provide a maximum of active surface area for efficient gas adsorption. DuoPleat combi filters simultaneously provide particle filtration of class M6, thanks to their additional 3-layered high-performance nonwoven on the face side. The large filtering area and the special structure of the filter media involved create not only a particularly high holding capacity and a long operational lifetime, but also very low pressure drop. The filter capacities are measured according to DIN 71460-2 and refer to a gas breakthrough of 95% for toluene and n-butane, and 80% for SO_2. The concentration of the test gas is 80 ppm, (toluene and n-butane) or 30 ppm (SO_2).

					EN 779:2012			
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W × H × D) [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	FILTER CAPACITY TOLUENE [g]	FILTER CAPACITY SO_2 [g]	FILTER CAPACITY N-BUTANE [g]
CP 1/1	53538274	592 × 592 × 292	3,400	70		910	210	105
CP 5/6	53538276	592 × 490 × 292	2,700	70		740	170	85
CP 1/2	53538275	592 × 287 × 292	1,500	70		410	95	48
DP85 1/1	53541780	592 × 592 × 292	3,400	130	M6	715	165	85
DP85 5/6	53541782	592 × 490 × 292	2,700	130	M6	570	132	68
DP85 1/2	53541781	592 × 287 × 292	1,500	130	M6	310	72	37

GAS PHASE FILTERS

CHEMCONTROL FILTERS | CHEMCONTROL FILTERS

SPECIFICATIONS	
Recommended duty temperature	< 30 °C
Thermal stability	50 °C
Recommended duty humidity	< 60 % rel. hum.

Application

Viledon® ChemControl Filters of the CCF range provide an optimum solution for integrating chemisorptive filter media into conventional air handling systems. The chemisorptive components are mainly based on permanganate impregnated structures with basis weights of either 500 or 1,000 g per square meter. The permanganate is highly reactive against acidic gases such as hydrogen sulfide and sulfur oxides, formaldehyde, mercaptans and other inorganic contaminant gases. The chemisorptive principle of operation avoids any desorption as it is known with activated carbons which are working on physical adsorption principales. These filters can easily be integrated in air handling units to supply relatively large amounts of make-up air into protected areas such as data centers and microelectronic production facilities. Depending on the concentrations of contaminant gases, the ChemControl Filters can be used in styles with different amounts of chemisorptively active permanganates.

ARTICLE	DIMENSIONS (W × L × D) [mm]	FILTER AREA [m²]	CONTENT OF PERMANGANATE SUBSTRATE [kg]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	SUITABLE FOR GASES
CCF 1000-B-P	592 × 592 × 292	11	11	3,400	160	H_2S, SO_2, mercaptanes, formaldehyde
CCF 500-B-P	592 × 592 × 292	11	5.8	3,400	160	H_2S, SO_2, mercaptanes, formaldehyde
CCF 1000-P-P	592 × 592 × 292	8	8	3,400	130	H_2S, SO_2, mercaptanes, formaldehyde
CCF 500-P-P	592 × 592 × 292	8	4.1	3,400	130	H_2S, SO_2, mercaptanes, formaldehyde

GAS PHASE FILTERS

ACTIVATED-CARBON CARTRIDGES | MODULES + INDIVIDUAL ELEMENTS

SPECIFICATIONS	
Adsorption medium	Activated-carbon, granulated
Operating temperature	< 30 °C
Thermal stability	70 °C
Moisture resistance	< 60 % rel. hum.
Top plate	Steel, painted
Cartridge sheathing	Expanded metal
Seal	Flat seal

Application

The filters are used in air-conditioning systems in public buildings, at airports, in offices and industrial facilities, in order to eliminate unwanted odors.

Features and benefits

- Stable construction.
- Compact single elements for easy handling and installation.
- Two different cartridge diameters (140 mm and 160 mm).
- Thickness of each activated carbon layer is 35 mm.

ARTICLE	OPTIMIZED FOR	DIMENSIONS (W × H × D) [mm]	NUMBER OF CARTRIDGES	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	ACTIVATED-CARBON VOLUME [dm³]
MODULE						
C bank B-0305x0610x430 / 08x140 odour	Odours / organic solvents	305 × 610 × 430	8	1,700	200	32
C bank B-0507x0610x430 / 12x140 odour	Odours / organic solvents	507 × 610 × 430	12	2,500	200	48
C bank B-0610x0610x430 / 16x140 odour	Odours / organic solvents	610 × 610 × 430	16	3,400	200	64
C bank B-0305x0610x430 / 08x140 acid	Acidic gases	305 × 610 × 430	8	1,700	200	32
C bank B-0507x0610x430 / 12x140 acid	Acidic gases	507 × 610 × 430	12	2,500	200	48
C bank B-0610x0610x430 / 16x140 acid	Acidic gases	610 × 610 × 430	16	3,400	200	64
C bank B-0305x0610x430 / 08x140 iodine	Radioactive iodine	305 × 610 × 430	8	1,700	200	32
C bank B-0507x0610x430 / 12x140 iodine	Radioactive iodine	507 × 610 × 430	12	2,500	200	48
C bank B-0610x0610x430 / 16x140 iodine	Radioactive iodine	610 × 610 × 430	16	3,400	200	64
C bank B-0305x0610x430 / 05x160 odour	Odours / organic solvents	305 × 610 × 430	5	1,500	150	30
C bank B-0507x0610x430 / 07x160 odour	Odours / organic solvents	507 × 610 × 430	7	2,550	150	42
C bank B-0610x0610x430 / 09x160 odour	Odours / organic solvents	610 × 610 × 430	9	3,000	150	54
C bank B-0305x0610x430 / 05x160 acid	Acidic gases	305 × 610 × 430	5	1,500	150	30
C bank B-0507x0610x430 / 07x160 acid	Acidic gases	507 × 610 × 430	7	2,550	150	42
C bank B-0610x0610x430 / 09x160 acid	Acidic gases	610 × 610 × 430	9	3,000	150	54
C bank B-0305x0610x430 / 05x160 iodine	Radioactive iodine	305 × 610 × 430	5	1,500	150	30
C bank B-0507x0610x430 / 07x160 iodine	Radioactive iodine	507 × 610 × 430	7	2,550	150	42
C bank B-0610x0610x430 / 09x160 iodine	Radioactive iodine	610 × 610 × 430	9	3,000	150	54

GAS PHASE FILTERS

ACTIVATED-CARBON CARTRIDGES | MODULES + INDIVIDUAL ELEMENTS

SPECIFICATIONS	
Adsorption medium	Activated-carbon, granulated
Operating temperature	< 30 °C
Thermal stability	70 °C
Moisture resistance	< 60 % rel. hum.
Top plate	Steel, painted
Cartridge sheathing	Expanded metal
Seal	Flat seal

ARTICLE	OPTIMIZED FOR	NOMINAL DIAMETER / NOMINAL LENGTHS [mm]
INDIVIDUAL ELEMENTS (CARTRIDGES)		
C cart B-0140x0400x035 odour	Odours / organic solvents	140×400
C cart B-0140x0400x035 acid	Acidic gases	140×400
C cart B-0140x0400x035 iodine	Radioactive iodine	140×400
C cart B-0160x0400x035 odour	Odours / organic solvents	160×400
C cart B-0160x0400x035 acid	Acidic gases	160×400
C cart B-0160x0400x035 iodine	Radioactive iodine	160×400

ARTICLE	DIMENSIONS (W×H×D) [mm]	NUMBER OF CARTRIDGES
INDIVIDUAL ELEMENTS (PLATES)		
C plate B-0305x0610x40 / 08x140	305×610×40	8
C plate B-0507x0610x40 / 12x140	507×610×40	12
C plate B-0610x0610x40 / 16x140	610×610×40	16
C plate B-0305x0610x40 / 05x160	305×610×40	5
C plate B-0507x0610x40 / 07x160	507×610×40	7
C plate B-0610x0610x40 / 09x160	610×610×40	9