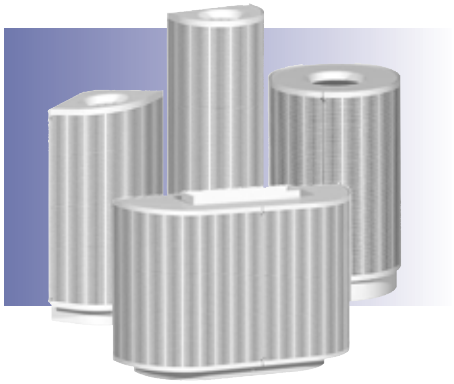


FLOORMASTER displacement units

Displacement diffusers

Product	**FLOORMASTER displacement units**
Construction material	**Galvanized steel**
Finishing	**RAL 9010**

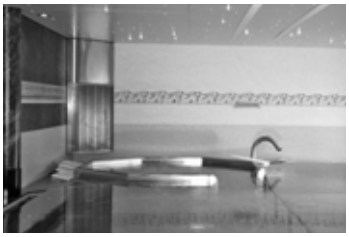
This distribution system is based on the pressure displacement principle, i.e. the heat released in the room from an element generates a hot air upward motion, which besides having a higher temperature than the room, it is also filled with impurities even, gas.
The displacement system exploits these natural motions making available at the base of the pressure a sufficient quantity of clean and fresh air able to replace the hot air which is moving upwards,
thus creating a comfortable condition right by the system.

Air extraction should be made in the highest point of the room or nearby.

- Very low noise emission
- Uniform circular diffusion system
- High comfort in the area
- Equalizer and internal air diffuser in polyurethane foam M1
- Accessories: lining of air duct, base, silencer, damper etc.
- Bottom feeding possible

Design and fuction

The FLOORMASTER diffusers are fitted with an internal equalizer and air diffuser inserted behind the perforated sheet, for a correct and uniform distribution of the air speed and a low noise emission.
The diffusers are designed with a connection suitable to fit a silencer. We also suggest pre-arranging a class EU 5 filter.



Material and superficial finishing

The side walls of the diffuser, the plugs and the accessories are made of hot galvanized sheet steel, SS 1151.
The front grids are made of SS 1142 steel.
All the diffusers and the accessories satisfy the requirements of the environmental class M2 which complies with the Heating, Ventilation and Sanitation (VVS) AMA 98 standards.
The equalizer and the diffuser are made of polyurethane foam.
The material undergoes a fire test in compliance with NF P 92-501 (fire resistance) and it also complies with class M1, with NBS S 21-203 (fire protection in buildings) and with class A1.
The diffusers are powder painted for a top quality superficial finishing, which makes them resistant to crashes and scratches.
Standard color: NCS S 0502-Y white, brightness 30, equivalent to RAL-9010. other colors on request.

Technical features and sizes

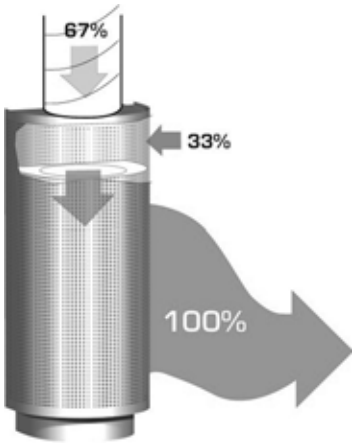
Please refer to the product selection program WinDon for the overall size calculations and the cooling requirements. This program with calculation module of the cooling requirements is also available on our CD or on Internet at our site: www.sagicofim.com

WinDon 3.0

WinDon is the product selection program that offers effective support for fast selection for every specific project.
The programs provides all the technical information required.

Displacement units with internal mixing

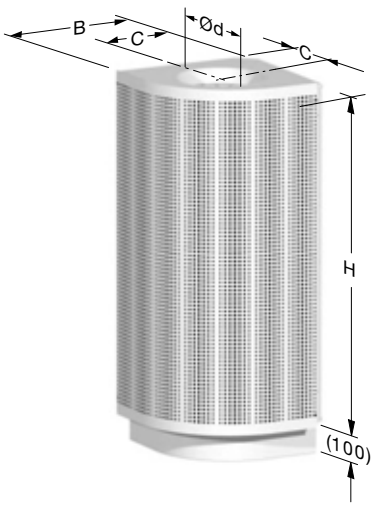
This displacement diffuser typology is provided with an induction plate which induces room air to enter from the front plate and to mix with the primary flow.
This solution allows to increase the temperature differential between primary air and room air, thus decreasing the air flow.



FLOORMASTER displacement units

displacement diffusers

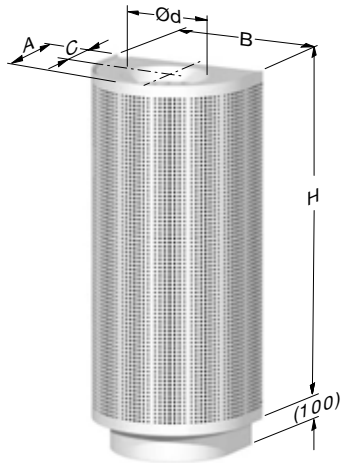
mod. DVQA, corner displacement units



Size	Sizes (mm)				Weight
DVQA	ø d	H	B	C	kg
100	100	400	205	90	3,3
160	160	600	334	151	7,9
250	250	1000	442	210	17,1
315	315	1500	505	227	27,6
400	400	2000	624	275	44,8

Size	Capacity l/s (m³/h) at noise level		
DVQA	25 dB (A)	30 dB (A)	35 dB (A)
100	33	40 (144)	48
160	85	100 (360)	120
250	210	250 (900)	305
315	330	400 (1440)	490
400	530	640 (2305)	780

mod. DVHA, semi-cylindrical displacement units



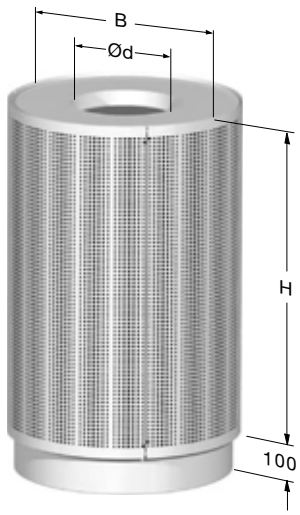
Size	Sizes (mm)					Weight
DVHA	ø d	H	A	B	C	kg
100	100	400	175	182	81	2,8
160	160	600	279	355	141	6,4
250	250	1000	352	457	176	15,3
400	400	1500	795	787	308	40,2
500	500	2000	761	917	374	63,8

Size	Capacity l/s (m³/h) at noise level		
DVHA	25 dB (A)	30 dB (A)	35 dB (A)
100	33	40 (144)	46
160	85	100 (360)	120
250	210	240 (864)	280
400	500	590 (2124)	730
500	780	905 (3258)	1025

FLOORMASTER displacement units

displacement diffusers

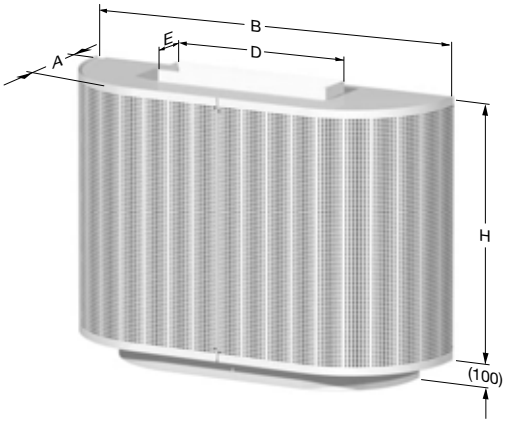
mod. DVRA, round displacement units



Size	Sizes (mm)			Weight
DVRA	ø d	H	B	kg
160	160	600	322	6,6
315	315	1000	679	23,6
400	400	1500	776	39,0
630	630	2000	1296	91,6

Size	Capacity l/s (m³/h) at noise level			
DVRA	25 dB (A)	30 dB (A)		35 dB (A)
160	87	100	(360)	120
315	350	410	(1426)	495
400	500	570	(2412)	795
630	1400	1630	(5868)	1980

mod. DVPA, flat displacement units



Size	sizes (mm)					Weight
DVPA	D	E	H	A	B	kg
300-60	300	60	400	205	567	6,2
400-100	400	100	600	335	929	14,8
700-150	700	150	1000	396	1494	38,3
1200-200	1200	200	1500	438	2236	80,1
1300-300	1300	300	2000	538	2699	125,2

Size	Capacity l/s (m³/h) at noise level			
DVPA	25 dB (A)	30 dB (A)		35 dB (A)
300-60	68	78	(281)	92
400-100	160	200	(720)	240
700-150	420	510	(1836)	620
1200-200	980	1190	(4284)	1400
1300-300	1600	1840	(6624)	2300