



Uniflexplus+

Air distribution system



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WHAT IS UNIFLEXPLUS+?

Uniflexplus + is a patented air distribution system for ventilation which can be used in homes, apartments and small buildings. It provides for the ventilation supply and exhaust system for both system C (natural supply and mechanical exhaust) and system D (mechanical supply and exhaust).

It is available in four diameters (50mm, 63mm, 75mm and 90mm) and with 3 spigots sizes (Ø125mm, Ø160mm and Ø180mm) so that a flexible solution can be found for every situation.

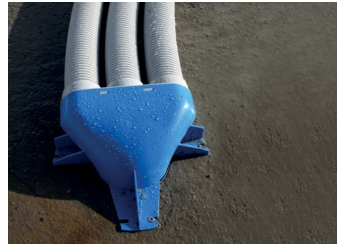


MAINTENANCE AND CLEANING

Uniflexplus + is designed to prevent contamination in the system and to simplify the cleaning, thanks to:



The inside of the duct is treated with antistatic and antibacterial additives.



The attachment of the valve collectors is outside the system, so screws cannot enter the system.



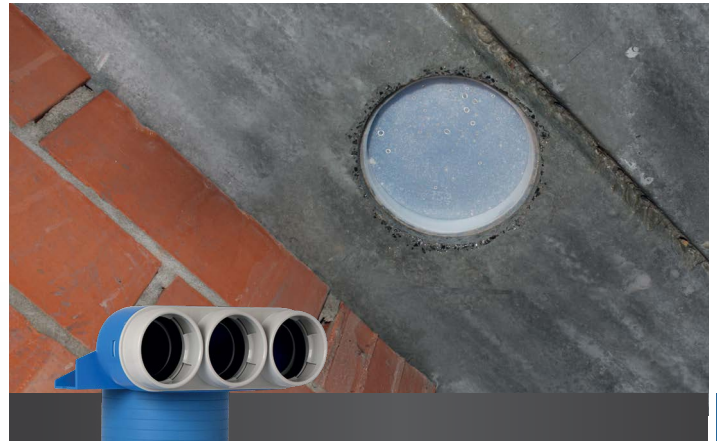
The round shape of the ducts and valve collectors.



The direct connection between the distributor and the valve collector without side connections.

BENEFITS

- **Unique click system:** makes Uniflexplus+ easy to install and time saving.
- **Flexibility:** allowing to cope with unforeseen circumstances during installation
- **Round shape:** simplifies the cleaning of the system.
- **Few components:** you save space and rarely miss parts.
- **Small diameter:** the iron bars do not have to be cut and you keep a sturdier construction.
- **Antistatic and Antibacterial:** a clean, healthy air is guaranteed.



The sealing caps and lids provided with the ducts, distributors and valve collectors ensure that no building materials and debris can come in the pipes and components during the installation.

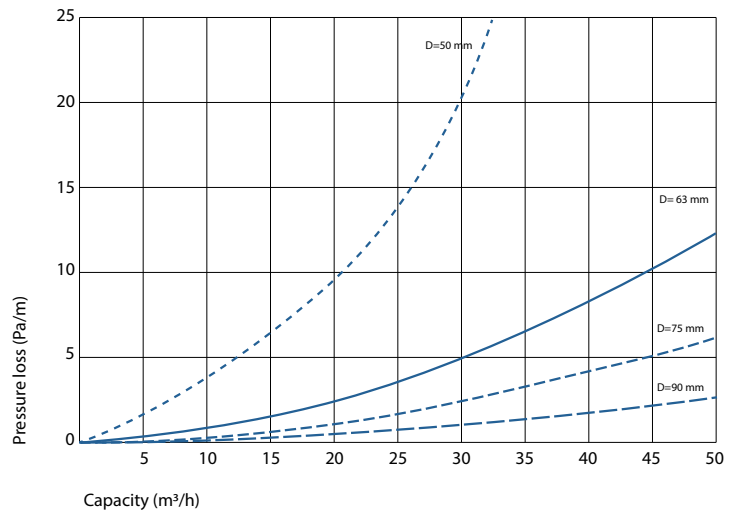
Still, it is recommended to thoroughly inspect and clean the ducts every eight years, to maintain a healthy environment.

This should be done by a qualified installer using a cleaning set with rotary brush, vacuum cleaner and inspection camera, also available as an accessory kit.

TECHNICAL DATA

Nominal dimensions:

Air duct	D outside [mm]	D inside . [mm]
DN 50	51	41
DN 63	64	54
DN 75	76	64
DN 90	91	78



Pressure loss data:

DN50

DN63

DN75

DN90

Air Flow in m³/h at ca.:

Length of duct (m)	DN50			DN63			DN75			DN90		
	2m/s	2,5m/s	3m/s	2m/s	2,5m/s	3m/s	2m/s	2,5m/s	3m/s	2m/s	2,5m/s	3m/s
1 duct	10m³/h	12,5m³/h	15m³/h	15m³/h	20m³/h	25m³/h	22m³/h	28m³/h	34m³/h	34m³/h	42m³/h	51m³/h
2 ducts	20m³/h	25m³/h	30m³/h	30m³/h	40m³/h	50m³/h	44m³/h	56m³/h	68m³/h			
3 ducts	30m³/h	37,5m³/h	45m³/h	45m³/h	60m³/h	75m³/h						
2	7,6	10,0	12,6	3,4	4,8	7,2	2,6	4,0	6,0	2,6	4,0	5,4
4	15,2	20,0	25,2	6,8	9,5	14,4	5,2	8,0	12,0	5,2	8,0	10,8
6	22,8	30,0	37,8	10,2	14,3	21,6	7,8	12,0	18,0	7,8	12,0	16,2
8	30,4	40,0	50,4	13,6	19,0	28,8	10,4	16,0	24,0	10,4	16,0	21,6
10	38,0	50,0	63,0	17,0	23,8	36,0	13,0	20,0	30,0	13,0	20,0	27,0
12	45,6	60,0		20,4	28,6	43,2	15,6	24,0	36,0	15,6	24,0	32,4
14	53,2			23,8	33,3	50,4	18,2	28,0	42,0	18,2	28,0	37,8
16	60,8			27,2	38,1		20,8	32,0	48,0	20,8	32,0	43,2
18				30,6	42,8		23,4	36,0	54,0	23,4	36,0	48,6

Pressure (Pa)

PROPERTIES

Material: Physiological and toxicological harmless PE, new and clean materials with no recycled additives and also fragrance free.

Available in: Ø50mm, Ø63mm, Ø75mm and Ø90mm.

Addition: The duct, distributors and valve collectors have antistatic and antibacterial additives.

Packaging: Duct wrapped in foil, with two sealing caps. Distribution boxes come with adjusted number of sealing caps. Valve collectors packed in a cardboard box with sealing caps and a protective cap.

Specific duct properties:

Capacity per duct at ca. 3m/s:

Ø50mm: 15m³/h

Ø63mm: 25m³/h

Ø75mm: 34m³/h

Ø90mm: 51m³/h

Operating temp.: -20°C to 60°C

Length: 50m

Ring Stiffness: ≥ 8 kN/m² according to EN ISO 9969

Fire classification: According to DIN EN 13501-1

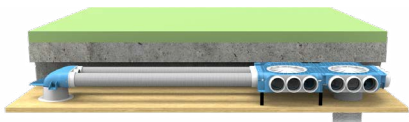
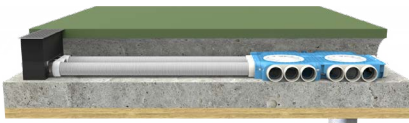
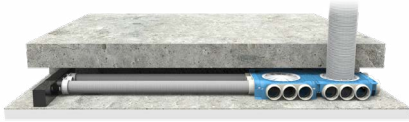
Air tightness: Class D according to NEN EN12237, EN1507 and LUKA.

APPLICATIONS

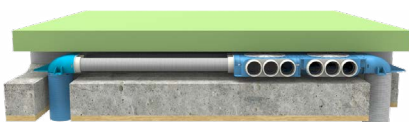
Uniflexplus + has numerous applications. Here are some examples (other diameters and combinations are possible):

In concrete

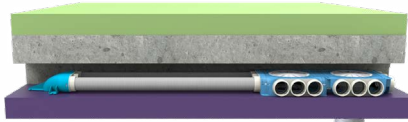
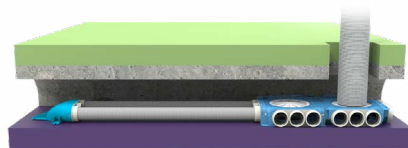
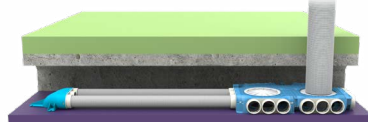
Ø125mm - 160mm - 180mm



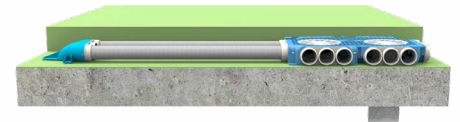
Ø 125mm



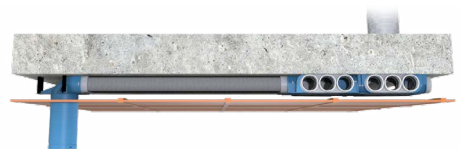
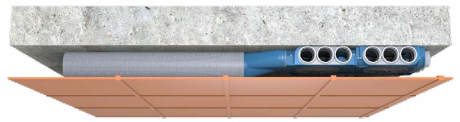
Ø125mm - 160mm - 180mm



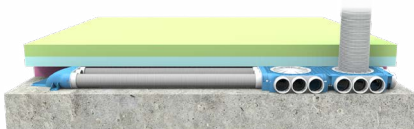
In the finishing layer/screed



In a modular ceiling



In the isolation layer



In a plaster wall/stone wall

