Extraction arm
PERMA arm

Geovent A/S offers a new extraction arm, the PERMA, in our program of extraction arms.

The PERMA arm is suitable for use at hairdressers, dental clinics, jewelers, pharmacies, veterinarians, podiatrists, schools, laboratories / hospitals & food manufacturing industries. In addition, the suction arm is suitable for the electronics industry (ESD approved), as well as for the chemicals, plastics and engineering industries.

The PERMA arm consists of a standard Aluminium tube with two molded plastic (POM) joints. Available in two pipe sizes ø57 and Ø76. As standard with anodized surface. Equipped with removable black plastic covers for easy cleaning.

The flexible, self-supporting construction consists of 2 or 3 parts Aluminium tubes, bracket for mounting and a large selection of accessories. The key element of the program is the patented suspension system for spiral pipe and the cleaning friendly arm joints. The joint can increase efficiency by approximately 25% compared to comparable arms on the market.

The system is even flexible and easy to install.

Extraction arms is suitable for use in environments with no special demands for chemical resistance or conductive characteristics. Point extraction arms is offered in white or black joints.

The antistatic extraction arms type ø57-76 ESD is suitable for use in ESD areas. This means that for example. Electronics industry can use these extractor arms without danger of static electricity associated with extraction processes. ESD is available only in black.

The lowest pressure loss

General:
ø57 mm 50-90m³/h
ø76 mm 80-180m³/h

Available in black or white joints

PERMA arm

PERMA arm ø57 mm

Art. No	Description type ø57
10-300H/S	380 mm 2 joint white or black
10-301H/S	480 mm 2 joint white or black
10-302H/S	580 mm 2 joint white or black
10-303H/S	750 mm 3 joint white or black
10-304H/S	950 mm 3 joint white or black
10-305H/S	1150 mm 3 joint white or black
10-306H/S	1250 mm 3 joint white or black
10-307H/S	1350 mm 3 joint white or black
10-308H/S	1420 mm 3 joint white or black
10-309H/S	1490 mm 3 joint white or black

All PERMA arms are incl. damper

PERMA arm ø57 mm, ESD

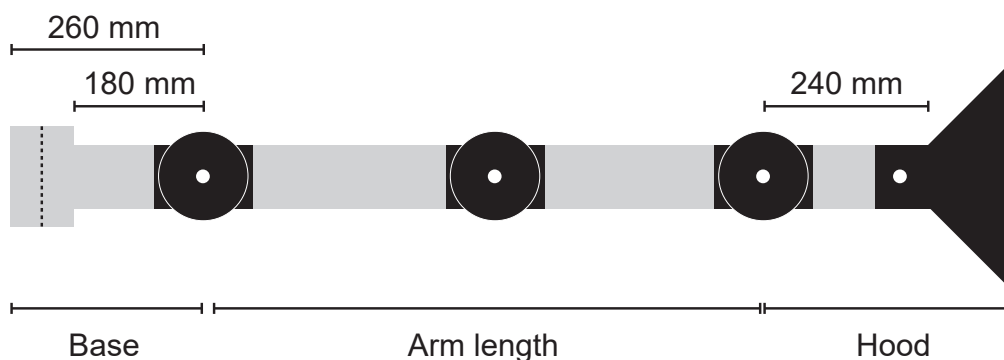| Art. No.	Description type ø57 ESD
10-350	380 mm 2 joint only in black
10-351	480 mm 2 joint only in black
10-352	580 mm 2 joint only in black
10-353	750 mm 3 joint only in black
10-354	950 mm 3 joint only in black
10-355	1150 mm 3 joint only in black
10-356	1250 mm 3 joint only in black
10-357	1350 mm 3 joint only in black
10-358	1420 mm 3 joint only in black
10-359	1490 mm 3 joint only in black

All PERMA arms are incl. damper

PERMA arm ø76 mm

Art. No.	Description type ø76
10-400H/S	380 mm 2 joint white or black
10-401H/S	480 mm 2 joint white or black
10-402H/S	580 mm 2 joint white or black
10-403H/S	750 mm 3 joint white or black
10-404H/S	950 mm 3 joint white or black
10-405H/S	1150 mm 3 joint white or black
10-406H/S	1250 mm 3 joint white or black
10-407H/S	1350 mm 3 joint white or black
10-408H/S	1420 mm 3 joint white or black
10-409H/S	1490 mm 3 joint white or black

All PERMA arms are incl. damper

PERMA arm ø76 mm, ESD

Art. No.	Description type ø76 ESD
10-450	380 mm 2 joint only in black
10-451	480 mm 2 joint only in black
10-452	580 mm 2 joint only in black
10-453	750 mm 3 joint only in black
10-454	950 mm 3 joint only in black
10-455	1150 mm 3 joint only in black
10-456	1250 mm 3 joint only in black
10-457	1350 mm 3 joint only in black
10-458	1420 mm 3 joint only in black
10-459	1490 mm 3 joint only in black

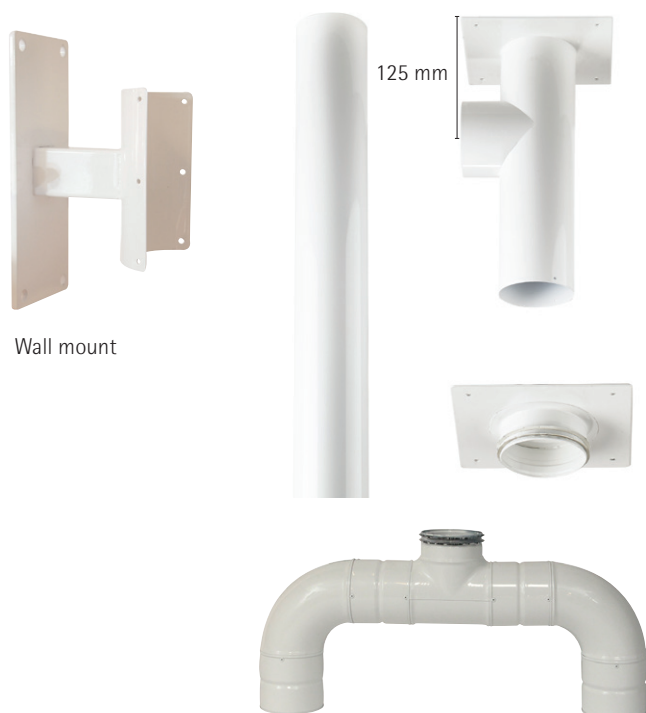All PERMA arms are incl. damper

Dimensions

260 mm
180 mm
240 mm

Base — Arm length — Hood

Mounting bracket / base

The extraction arms in ø57 mm and ø76 mm is offered for either ceiling mounting or wall mounting. Can be mounted in, rounded tube or white painted socket pipe. The extraction arms in the two types of pipes are all available as table mounting with special crafted table bracket, either on the edge of the table which can be removable or can be made a permanent settlement on the table.

Art. No.	Description
10-315	Base for wall/ceiling type ø57 180 mm
10-415	Base for wall/ceiling type ø76 180 mm

Art. No.	Description
10-500	PERMA ø57 Table bracket mounted in ø105 mm hole in the tabled, connection ø80 mm
10-500A	PERMA ø76 Table bracket mounted in ø105 mm hole in the tabled, connection ø80 mm
10-501	PERMA ø57 Table bracket mounted on the edge of table
10-501A	PERMA ø76 Table bracket mounted on the edge of table

Art. No.	Description
10-365	Base for wall/ceiling type ø57 ESD 180 mm
10-465	Base for wall/ceiling type ø76 ESD 180 mm

Art. No.	Description
10-365B	ESD Table bracket, installed in ø105 mm hole in the table, ø57 mm, connection ø80 mm
10-465B	ESD Table bracket, mounted in ø105 mm hole in the table, ø76 mm, connection ø80 mm
10-365C	ESD Table bracket, installed on edge of table, ø57 mm, connection ø80 mm
10-465C	ESD Table bracket, mounted on edge of table, ø76 mm, connection ø80 mm

Mounting bracket / pipe

Wall mount

125 mm

Art. No.	Description
10-502	Socket pipe ø100 with side pipe 250 mm
10-503	Socket pipe ø100 with side pipe 350 mm
10-504	Socket pipe ø100 with side pipe 500 mm
10-505	Socket pipe ø100 with side pipe 750 mm
10-506	Socket pipe ø100 with side pipe 1000 mm

Art. No.	Description
10-507	Smooth pipe 500 mm
10-508	Smooth pipe 1000 mm
10-509	Wall mount
10-510	Ceiling mount closet ø100 mm
10-511	Ceiling mount through-going ø100 mm
10-512	Branch pipe ø100 mm, 620x250 mm - used by 2 outlet for 2 arm
10-514	Support bracket for ceiling pipes

Accessories

Geovent offer a great range of accessories for suction arms: hoppers, suction pens and hoods with and without flexible tube/hose. There are different accessories for each type of extraction arms ø57, ø57 ESD, ø76 and ø76 ESD.

The suction nozzles are available in clear, impact resistant polycarbonate with an orifice diameter of up to 380 mm, or aluminium which can withstand considerable heat. Usually with rotary damper to open and close the air passage. The flexible pipe section allows replacement of the suction port / screen, while acting as a pivot.

Round hood

Conical hood

Flat hood

Type	Art. no.	Description
ø57	10-316	Round hood ø380 mm
ø76	10-416	Hood for industry ø380 mm

Connection pipe 180 mm included all hoods

Type	Art. no.	Description
ø57	10-317	Conical hood ø250 mm
ø57	10-318	Conical hood ø250 mm w. flex pipe 300 mm
ø57	10-319	Conical hood ø250 mm
ø57	10-320	Conical hood ø250 mm w. flex pipe 300 mm
ø57	10-327	Conical hood ø120 mm w. adjustable hose 400 mm
ø57	10-329	Conical hood oval 140x180 mm
ø57 ESD	10-372	Conical hood ø150 mm w. adjustable hose 400 mm
ø76	10-417	Conical hood ø250 mm
ø76	10-418	Conical hood ø250 mm w. flex pipe 300 mm
ø76	10-419	Conical hood ø250 mm
ø76	10-420	Conical hood ø250 mm w. flex pipe 300 mm

Connection pipe 180 mm included all hoods

Type	Art. no.	Description
ø57	10-323	Flat hood 340x250 mm
ø76	10-425	Flat hood 340x250 mm

Connection pipe 180 mm included all hoods

Aluminium hood

Type	Art no.	Description
ø57	10-321	Aluminium hood conical ø150 mm
ø57 ESD	10-366	Aluminium hood conical ø150 mm
ø76	10-421	Aluminium hood conical ø150 mm
ø76 ESD	10-466	Aluminium hood conical ø150 mm

Connection pipe 180 mm included all hoods

The suction pen is offered to both dimensions. Comes complete with couplings, rotary dampers and flexible tube, and can be completely customized as you wish.

Extraction pen

Type	Art no.	Description
ø57	10-324	Suction pen 250 mm
ø57	10-324A	Suction pen press flange ø57 mm, 250 mm
ø57	10-325	Suction pen 350 mm
ø57	10-325A	Suction pen press flange ø57 mm, 350 mm
ø57 ESD	10-367	Suction pen 250 mm
ø57ESD	10-367A	Suction pen press flange with flextube ø57 mm, 150 mm
ø57 ESD	10-368	Suction pen 350 mm
ø76	10-422	Suction pen 250 mm
ø76	10-423	Suction pen 350 mm
ø76 ESD	10-467	Suction pen 250 mm
ø76 ESD	10-467A	Suction pen press flange ø76 mm, L 250 mm, ESD
ø76 ESD	10-468	Suction pen 350 mm
ø76 ESD	10-468A	Suction pen press flange ø76 mm, L 350 mm, ESD
ø57	10-326	Suction pen 150 mm w. flex pipe 300 mm
ø57	10-326A	Suction pen press flange with flextube ø57 mm, 150 mm
ø57 ESD	10-369	Suction pen ø150 mm w. flex pipe 300 mm
ø57 ESD	10-369A	Suction pen press flange ø 57 mm, 150 mm with flextube 300 mm, ESD
ø57 ESD	10-370	Suction pen ø150 mm w. flex pipe 600 mm 1 led m. spjæld
ø57 ESD	10-371	Suction pen ø150 mm w. flex pipe 600 mm m. spjæld
ø76	10-424	Suction pen 150 mm w. flex pipe 300 mm
ø76 ESD	10-469	Suge Suction pen spids 150 mm w. flex pipe 300 mm
ø76 ESD	10-469A	Suction pen press flange ø76 mm, L 150 mm, ESD

Connection pipe 180 mm included all hoods

Extraction pen w/hose

The different arms can regardless of the pipe thickness, be fitted with a flexible tube, which makes the suction funnel and suction pen easy to fix in a variety of postures. Flex pipe can be used by all mounting types ceiling, wall and table mounting.

Guide for PERMA arm use:

Sectors	PERMA arm			
	ø57	ø57 ESD	ø76	ø76 ESD
Dental Technician	x[1]		x[1]	
Veterinarians and clinics			x[2]	
Podiatrists	x[6]			
Nail Clinic	x[1]			
Doctors and specialists	x[1]		x[5]	
Laboratories		x[1 2]	x[1 2]	x[1 2]
Hospitals			x[1]	
Pharmacies			x[2]	
Gold and silversmiths	x[1]		x[2]	
Hairdressing	x[3]			
Classrooms in schools, colleges and universities	x[1]		x[1 4]	
Electronics industry		x[1]		x[1]

Chemicals: [1] Extraction arm with flexible hoses and suction tip

                    [2] Extraction arm with dome or funnel

                    [3] Extraction arm with flat screen, dome or funnel

Odour: [2] Extraction arm with dome or funnel

Gas, smell: [4] Extraction arm with suction funnel or dome

Solder Fume: [1] Extraction arm with flexible hoses and suction tip

Anaesthetic Gases: [5] Extraction arm with suction funnel

Dust: [1] Extraction arm with flexible hoses and suction tip

Grinding dust: [6] Extraction arm with suction funnel and hose (Item no.10-327)

PERMA Arm - Pressure drop