



Product Description



System 100 – Antistatic

Alsident® System 100 – airflow between 140 - 400 m³/h.

System 100 Antistatic is suitable in areas where large air volumes are required and where static electricity must be avoided e.g. in EX-areas in chemical-, pharmaceutical- and food industry and in ESD-areas in the electronic industry.

The standard Alsident® System 100 AS extraction arms are available in various types that are complementary to each other with ranges up to 2630 mm. The System 100 AS extraction arms are easily mounted with standard brackets for table, wall or ceiling. In combination with the range of hood designs this makes it possible to choose an extraction arm adapted for each work situation.

Alsident® System 100 AS extraction arms are self-sustaining with an internal bearing spring, joints of conductive Polypropylene (PP) and tubes of conductive Polypropylene with a diameter of 100 mm. All internal components are of acid-proof stainless steel (AISI 316L). The shortest models are supplied with an internal spring, whereas the longest models are supplied with one or two external gas springs. The construction constitutes a very user-friendly extraction arm that is easy to adjust to the source of the pollutant during the working process.

Alsident® System 100 AS is approved for use in ESD-areas according to IEC 61340-5-1 and IEC 61340-4-1+ DIN VDE 0303 part 30.

Alsident® System 100 AS is approved for use in EX-areas according to IEC 13463-1 13.3.4.7 and IEC 61340-4-1 and are marked accordingly: **EX II 1 GD**. With this marking these extraction arms can be used in zones: 0, 1, 2 and 20, 21, 22.

Alsident® System 100 AS extraction arms are supplied with an earthing wire without resistance (for EX-areas). For use in ESD-areas an earthing wire with 1 MΩ resistance is also enclosed. Further information is available in "Mounting Instructions" on the extraction arm or under "Technical Information" on the web.

An extraction arm from Alsident® System consists of three parts: An extraction arm, a hood and a mounting bracket. Each part must be ordered separately.

In addition to the standard range Alsident® offers special customized solutions. The Alsident® technical department is always ready to help finding the best solution.

Alsident® offers short delivery time for both standard productions and special solutions.

SYSTEM 25

SYSTEM 50

SYSTEM 63

SYSTEM 75

SYSTEM 100 AS

Product Specification



Technical Specifications

Recommended Airflow:	Normal:	270 m ³ /h
	Minimum:	140 m ³ /h
	Maximum:	400 m ³ /h
Air Temperature:	-15°C – +90°C	
Material:	Pipes:	Conductive Polypropylene (PP) – black
	Joint:	Conductive Polypropylene (PP) – black
	O-ring:	Conductive Polyethylene (PE) – black
	Flange:	Conductive Polypropylene (PP) – black
	Damper::	Polypropylene (PP)
	Thumbscrew:	Polypropylene (PP) – black
	Threaded Stay:	Acid-proof stainless steel (AISI 316L)
	Spring ¹ :	Acid-proof stainless steel (AISI 316L)
	Gas spring ² :	Steel

1) Used for arm types up to 100-6555

2) Used for arm types 100-9065, 100-10585 and 100-135105

The antistatic version of System 100 has been tested and approved by Danish Technological Institute for use in explosive atmospheres according to the standards IEC 61340-4-1 and IEC 13463-1:2001.

They are labelled: **EX II 1 GD.**

The antistatic version is also approved for use in ESD-areas according to IEC 61340-4-1, DIN VDE 0303 part 30 and IEC 61340-5-1. The tests are carried out by BAM and DELTA.

Abbr.:	PP:	Polypropylene Shatterproof and chemical resistant
	TCP:	Trivalent Chromium Passivation RoHS compatible surface treatment for aluminium.

Local Extraction for workplaces incl. all materials for mounting.

All components RoHS-compatible according to the directive 2002/95/EF (RoHS).

Technical Reports

Technical Reports:	Capture Efficiency (Danish Technological Institute)		
	ESD Test Report (DELTA)		
	ESD Test Report (BAM)		
	EX Test Report (Danish Technological Institute)		
	Download: www.alsident.com > Technical Support > Test Reports		

Key to the signatures

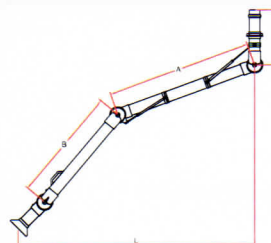
SYSTEM NO.	VERSION	CHAPTER	PAGE NO.
100	AS Antistatic	GI General Information	01
		TM Table mounted	
		WM Wall mounted	
		WCM Wall/Ceiling mounted	

Product Overview

Wall and Ceiling mounted



Wall/Ceiling mounted (WCM), 3-Joint

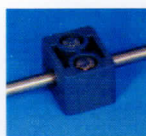


Diam. [mm]	L [mm]	A [mm]	B [mm]	C [mm]	Weight appr. [kgs]	Part No.
100	1185	550	450	510	5.5	100-5545-3-6
100	1370	650	550	510	6.0	100-6555-3-6
100	1710	900	650	510	7.0	100-9065-3-6 ^{1) 3)}
100	2130	1050	850	510	7.5	100-10585-3-6 ^{2) 3)}
100	2630	1350	1050	510	8.5	100-135105-3-6 ^{2) 3)}

1) With 1 gas spring

2) With 2 gas springs

3) With handle on B-pipe



Special Stop for Gas Spring

Part No. 7-100-1

See page GI 07

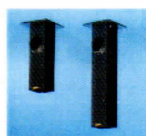
Matching mounting brackets



Square Wall Bracket

Part No. 2-100-203

See page GI 08



Ceiling columns

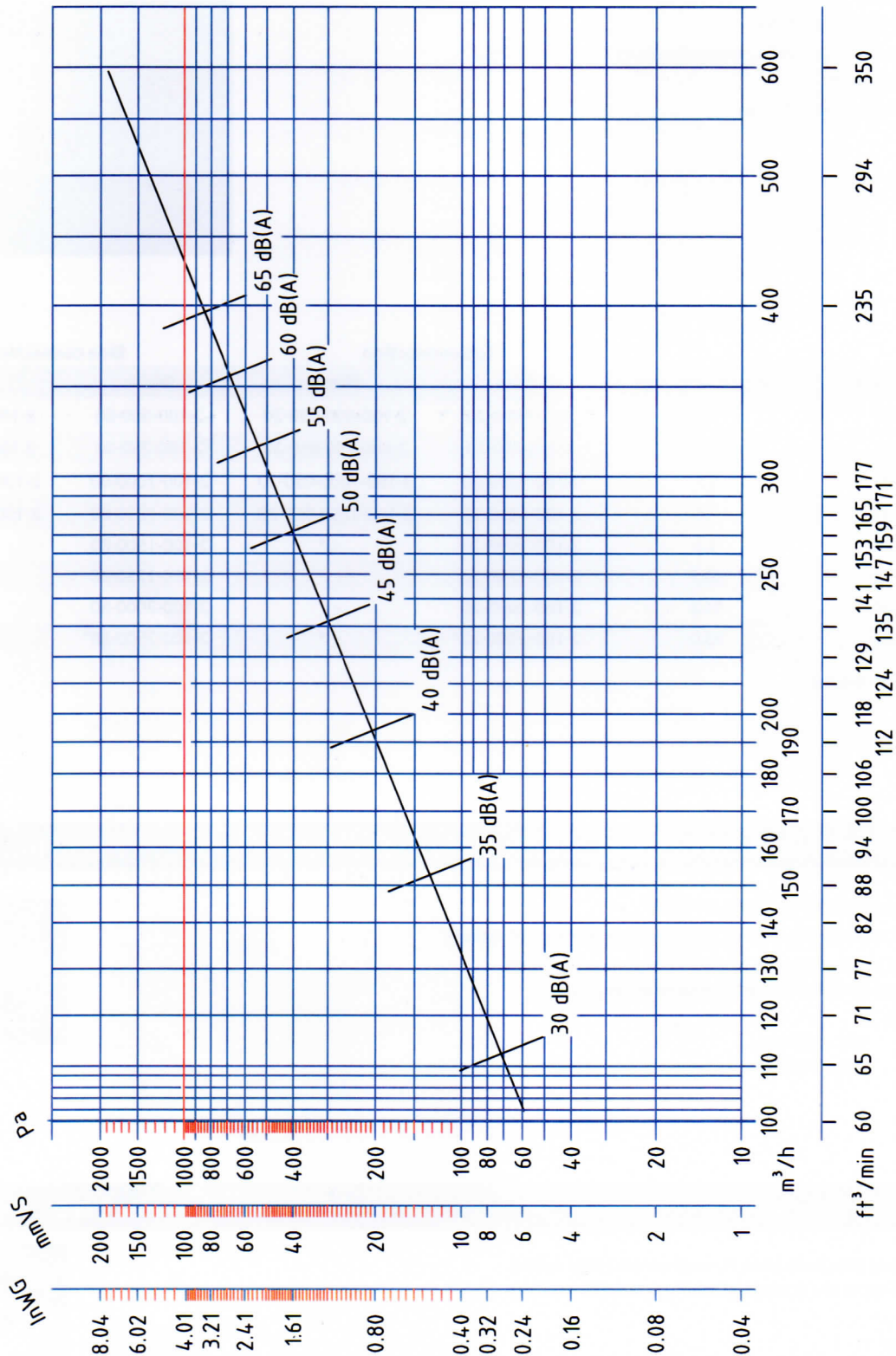
See page GI 09

Technical Description



Pressure Drop Chart

Tested by Danish Technological Institute

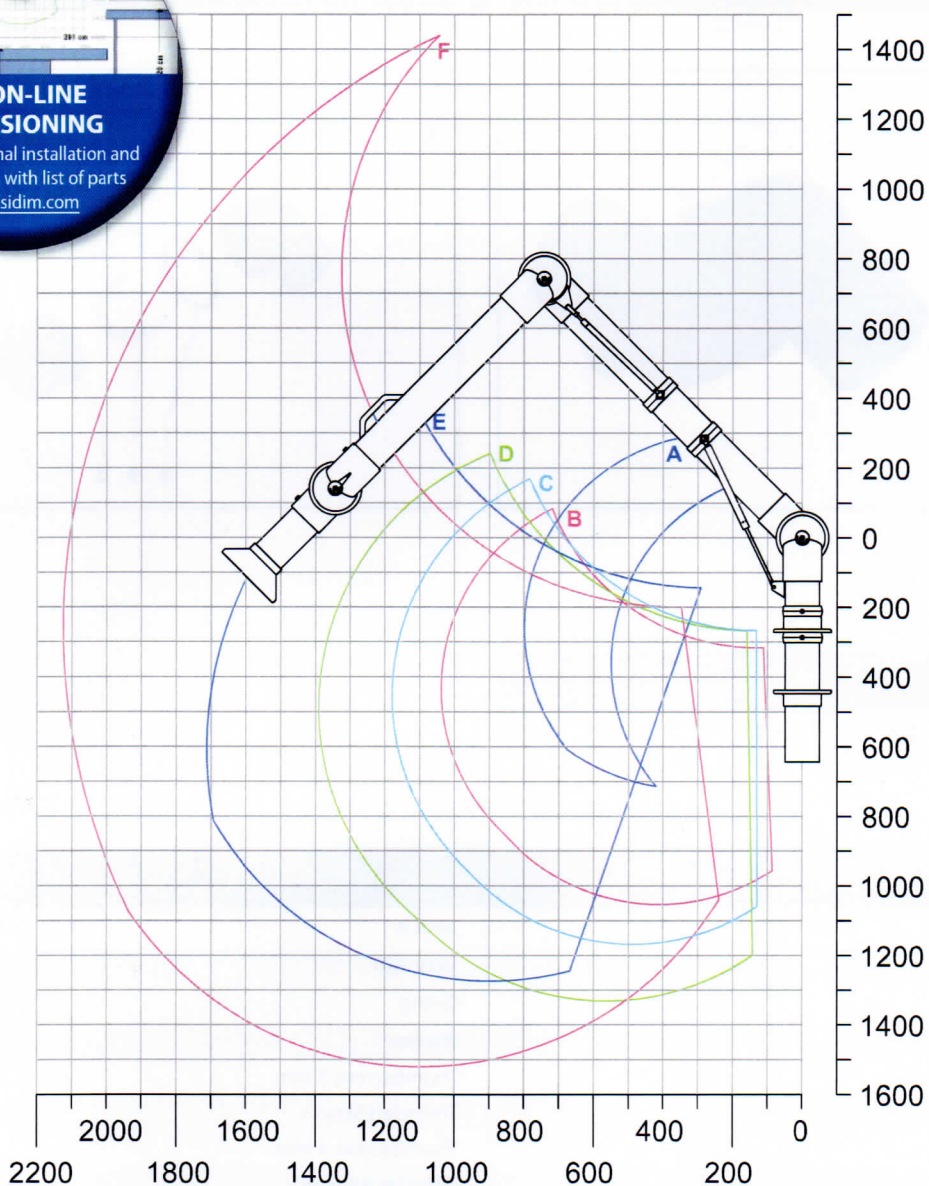
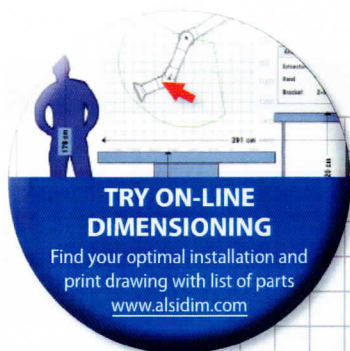




Working Area

Table mounted with Hood Ø200 mm

A cleaner working environment



A: Model 100-55-1-6	R: 795 mm
B: Model 100-4540-1-6	R: 1040 mm
C: Model 100-5545-1-6	R: 1185 mm
D: Model 100-6555-1-6	R: 1370 mm
E: Model 100-9065-1-6	R: 1710 mm
F: Model 100-10585-1-6	R: 2130 mm

Accessory: Hood Ø200 No. 1-10024-6

Note:

The working area of the arm is defined from the center of the opening of the accessory.

The working area changes according to type of accessory and positioning.

When choosing the arm we recommend that the stationary working position of the accessory is not placed in the highest or lowest part of the working area.

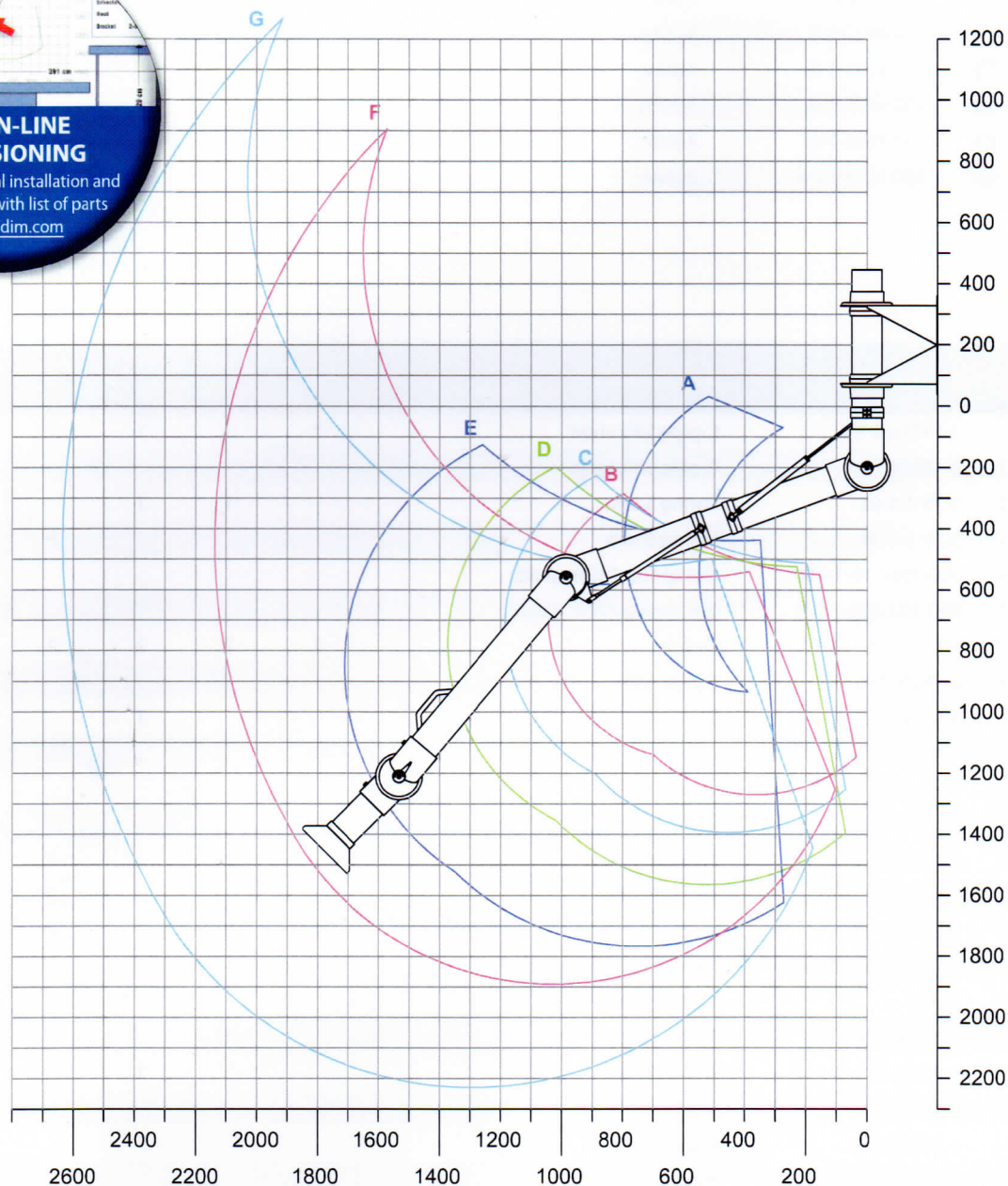
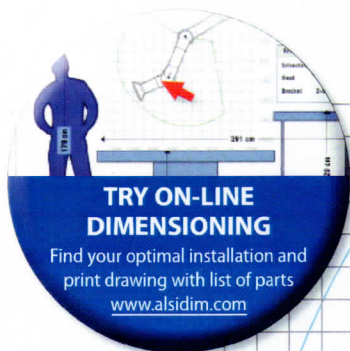
(All measurements in mm)



Working Area

Wall mounted with Hood Ø200 mm

A cleaner working environment



A: Model 100-55-2-6	R: 795 mm
B: Model 100-4540-2-6	R: 1040 mm
C: Model 100-5545-2-6	R: 1185 mm
D: Model 100-6555-2-6	R: 1370 mm
E: Model 100-9065-2-6	R: 1710 mm
F: Model 100-10585-2-6	R: 2130 mm
G: Model 100-135105-2-6	R: 2630 mm

Accessory: Hood Ø200 No. 1-10024-6

The working area of the arm is defined from the center of the opening of the accessory.

The working area changes according to type of accessory and positioning.

When choosing the arm we recommend that the stationary working position of the accessory is not placed in the highest or lowest part of the working area.

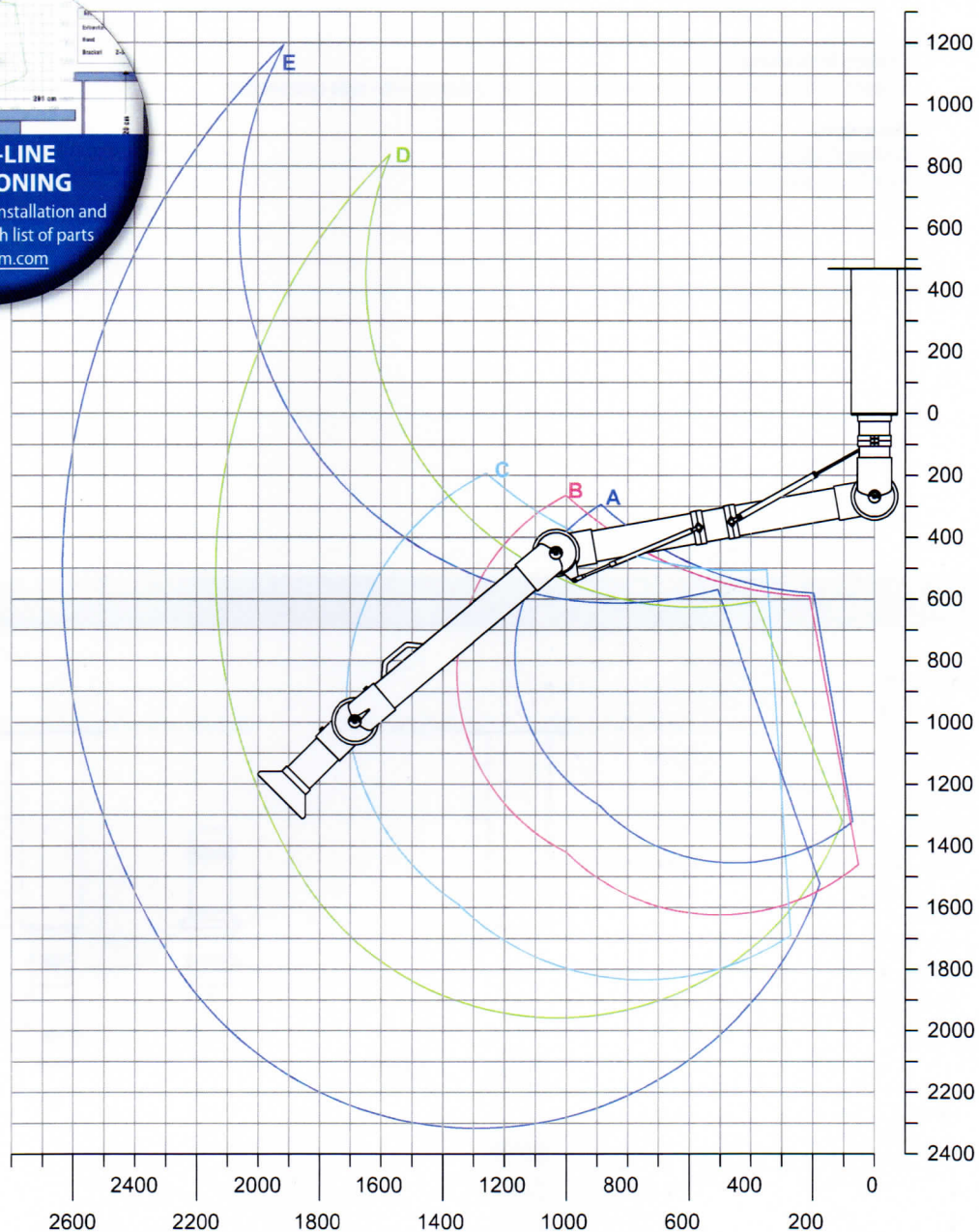
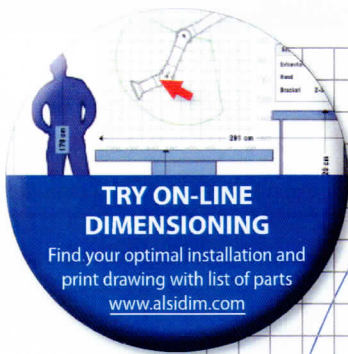
(All measurements in mm)



Working Area

Ceiling mounted with Hood Ø200

A cleaner working environment



A: Model 100-5545-3-6	R: 1185 mm
B: Model 100-6555-3-6	R: 1370 mm
C: Model 100-9065-3-6	R: 1710 mm
D: Model 100-10585-3-6	R: 2130 mm
E: Model 100-135105-3-6	R: 2630 mm

Accessory: No. 1-10024-6

Note:

The working area of the arm is defined from the center of the opening of the accessory.

The working area changes according to type of accessory and positioning.

When choosing the arm we recommend that the stationary working position of the accessory is not placed in the highest or lowest part of the working area.

(All measurements in mm)