# PRODUCT DETAIL SHEET

## RDM

Established 1951

# POWDER COATING BOOTHS AND RECOVERY SYSTEMS

### ntroduction

The RDM "Modular" Powder Coating Booth System is a World First. For the first time the customer can choose **any** size or style of work or operator openings to suit their needs and they only pay for a booth by its **overall** size. The use of CAD and flexible manufacturing has made this possible at an incredible price.

Customers can choose between a low cost galvanised finish, a superb epoxy powder coated finish or our top quality all stainless steel construction.

RDM manufactures a large range of high efficiency cyclones and powder afterfilters to suit different extraction duties.

The unit most closely matching the requirements of the system can be easily and simply chosen or specified.

# **Questions and Answers**

What is Powder Coating?

Powder coating is simply an alternative method of applying Paints. Unlike the 'normal' 'wet' Paint application, with Powder Paints there are no solvents. Only the Paint solid itself is sprayed onto the product, in a fine powder form. The Product is then heated (to around 200 degrees Centigrade) in an Oven, the powder fuses (or melts) onto the product and thus forms a smooth, tough and thick coating.

What are the benefits of Powder Coating?

High Quality. Because the powder is fused onto the product, it has excellent scratch resistance properties. It also has a pleasing 'smooth' appearance and forms a sealed skin minimising corrosion risk.

Recoverable. Unlike Wet paint, 'Over spray' powders can be collected and re-used! When you consider that in any paint spraying system, only around 50% of the paint (or powder) actually lands on the job, then large savings are clearly possible if the over spray can be re-used.

Simple Automation. Because powder is applied electrostatically, is fully recoverable and is passiv cleaned away powder is ideally.

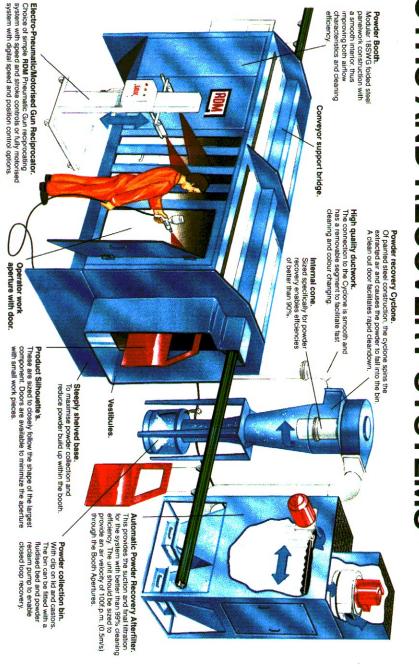
simple Automation. Because powder is applied electrostatically, is fully recoverable and is easily cleaned away, powder is ideally suited to simple, automatic application thus minimising labour requirements.

The cost application for most applications a single thick

One coat application. For most applications, a single thick powder application is quite possible. This eliminates the need for primers, multi-coat-wet painting and for rubbing down between coats.

No Solvents. It is , therefore, safer to use and more 'environmentaly friendly'. It also easily complies with the 1990 E.P.A. Legislation.

Clean. Spillages, overspray, etc., can literally be vacuumed away or brushed off!

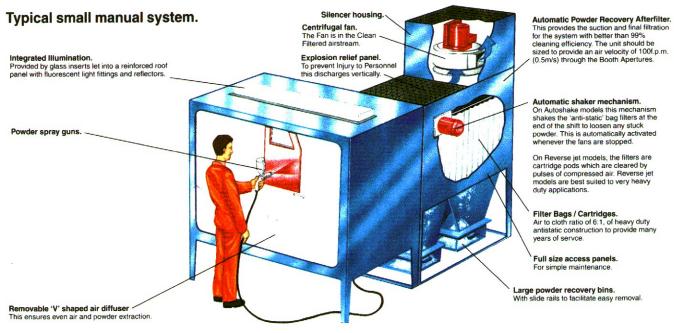








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### What information do RDM need to quote for a Powder Coating System?

The materials your products are made of i.e., are they aluminium, mild or stainless steel, etc. The range of Sizes and Weights of the products to be sprayed, the largest, the commonest and the smallest products.

The quantities of these products to be coated, either hourly or daily, if possible.

The number of different colours to be sprayed. This is very important because this will tell us the most appropriate method of powder

The quality of finished required! This is also relevant because this will suggest to us the most appropriate method of pretreatment, for example, architectural aluminium needs to have a much better quality of finish than, for example, a packing bracket that may only be used for a matter of hours!

- All modular system
- Choice of construction materials
- Integral flourescent lighting
- Choice of roll on/off system
- Smooth cyclones for infinite number of fast colour changes
- Cyclone more than 90%
- Afterfilters more than 99% efficient

- Easily removed powder bins
- Simple powder reclaim systems
- **Antistatic filters**
- Fan(s) in clean air stream
- Efficient pulse jet or shaker cleaning
- **Automatic or manual versions**
- 12 month warranty
- **Full HSE compliance**

Notable users include:- Channelmaster (U.K) Ltd. • Dale Power Plc. • Prima Doors •

- Stancraft
   Eden MFG
   Versatile Fittings
   Metco
   Trace Elliott
   Allermuir Furniture
- H.S.P. Beith P.C.D. Products Airedale Orthokinetics Metex High Speed Piercing •

Product development is continuous and RDM reserve the right to make alterations in specification and manufacture without notice. Products as delivered may therefore differ from that described in this document.

### RDM INDUSTRIAL SERVICES LIMITED

Stakehill Lane, Stakehill, Middleton, Manchester M24 2RY.

www.rdmengineering.co.uk

Tel: 0161 643 9333. Fax: 0161 655 3467







Email sales@rdmengineering.co.uk Stakehill Lane, Stakehill, Middleton, Manchester, M24 2RY Website: www.rdmengineering.co.uk



# POWDER COATING BOOTHS AND RECOVERY SYSTEMS DIMENSION DATA

RDM 'MA	RDM 'MANUAL' POWDER COATING BOOTHS	R COATING	BOOTHS	RDM REV	RDM REVERSE JET CARTR	ARTR
MODEL	GALVANISED (£)	POWDER STAINLESS COATED (£) STEEL (£)	STAINLESS STEEL (£)	SEQUENC	SEQUENCE CONTROL	三里
RMP 1	950	1150	1250	MODEL	VOLUME	MO No
RMP 15	1010	1250	1550	2	1000	
RMP 2	1190	1540	1890	ב ב	1000	<b>.</b> (
RMP 3	1580	1990	2900	ם ס	3000	л т
Any other	Any other size can be supplied. Prices on request.	ied. Prices on	request.	RJ12	3000	7 .
				RJ16	4000	7.

MOTOR

PRICE

5.5

7813

4

6678

5740

7.5 7.5

8812

14760 12490 10260

18430

MODEL	GALVANISED (£)	POWDER STAINLESS COATED (£) STEEL (£)	STAINLESS STEEL (£)
RAP 2	1890	3200	4500
RAP 3	2200	3500	4900
RAP 4	2600	3900	5980
RAP 5	2900	4210	6850
Any other :	Any other size can be supplied . Prices on request.	ied . Prices on	request.
All booths	All booths complete with sealed grass inserts and lights	aled grass inse	erts and lights

**RA175** 

RA125

MODEL

VOLUME

MOTOR

PRICE

CFM

750

2950

ANTI-STATIC BAGS

**RA500** RA375 RA250 RDM 'AUTO' POWDER COATING BOOTHS

RJ20

RJ36 RJ24

**RDM AUTO SHAKE AFTERFILTERS WITH** 

Other sizes available. Please ask.

6000 5000

9000

OPTIONS:-	
Kit for roll on/off operation includes 'v' wheels £1250	1250
Additional Auto Gun slots Per pair	£260
Work aperture door (each)	£320
Booths are supplied in kit form. Assembly or installation	allatior
;; o+ 0×tro 000+	

is at extra cost.

MAXIMUM

NTERCONNECTING DUCTWORKS KITS

SMOOTH" BOOTH

"SPIRAL" CYCLONE

TO AFTERFILTER( $\mathfrak E$ )

TO CYCLONE(£)

800 850

Other sizes available. Please ask.

RA1500 **RA1000 RA750 RA600** 

6000

9000

14560

9590

4500

 $\vec{\Box}$ 7.5

8667 6236 5460 4790 3870 3280

3600 3000

2250 1500 1050

5.5 7.5

4

<b>RDM QUIC</b>	RDM QUICK CHANGE CYCLONES	ONES
MODEL	VOLUME	PRICE
	CFM	(3)
RC400	1000	2250
RC500	1000 - 2250	2490
RC600	2250 - 3000	2687
RC750	3000 - 4000	3260
RC900A	4000 - 5000	4280
RC900B	7000	4360

1500

1000

CFM

NOTE:- All prices on this leaflet are for supply only. We would be pleased to quote for installation and/or delivery as required

to driver or site foreman (non-account customers). Any other terms will be negotiated with RDM PAYMENT TERMS:- 25% deposit with order. Balance due on delivery or on satisfactory completion of installation, payable WARRANTY:- 12 months on all non wearing parts from date of installation.

PRICES:- Prices do not include VAT, this will be charged extra.

6000 4500 3000 2250

1050 1120 1280

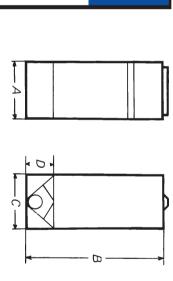
900 950

320 300

260 250

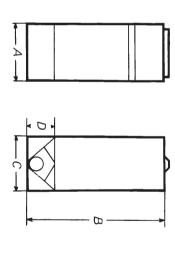
380 330

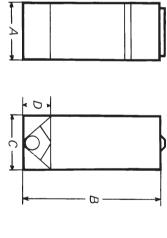
9000



E JET CARTRIDGE FILTER

**OLYESTER FILTERS AND** 

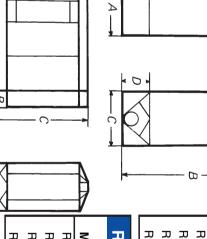




**UP TO 1500** 

C, HLdad

D' BASE



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>					, ,							
			•				С	A –			>	
RAP 3	RAP 2	MODEL	UA MOR		RMP 3	RMP 2	RMP 15	RMP 1	MODEL		RDM MA	
3000	2000	LENGTH 'A'	TOMATIC F		3000	2000	1500	1000	Ά,	WIDTH	NUAL POV	
500	500	VESTIBULE 'B'	RDM AUTOMATIC POWDER BOOT		UP TO 3000	UP TO 3000	UP TO 3000	UP TO 3000	'В	HEIGHT	<b>RDM MANUAL POWDER BOOTHS</b>	
		I		П					l			

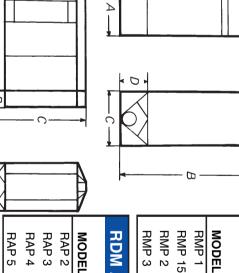
**UP TO 2000** 

**UP TO2000 UP TO 1500** 

**UP TO 1000** 

UP TO 500 **UP TO 500** 

UP TO 1000



7	H				$\parallel$		_				
B			0-					, ,			
\ \						-				0	
	RAP 5	RAP 4	RAP 3	RAP 2	MODEL	RDM /		RMP 3	RMP 2	RMP 15	•

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IC POWDER BOOTHS

2000

000 TO 1500

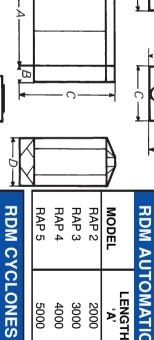
1000 TO 1500

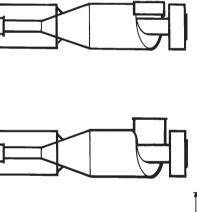
**UPTO 2000 UPTO 2000** 

5000 4000 3000

500 500 500

2500 3000 3000





RC750 RC600

286 229 198.5

710 x 710

710 x 710

113 x 325

228 x 305

152 x 362

RC500 MODE

1000 - 2250 VOLUME CFM

OVERALL
HEIGHT
OF CYCLONE

FOOTPRINT SIZE OF CYCLONE

INLET SIZE

OUTLET

RC900A

5000 7000

354

206 x 562

305 x 457

152 x 430

305 x 457

305 x 457

354

206 x 562

457 x 457

RC900B

**RDM AUTOSHA** 

KE AFTERFILTERS

VOLUME CFM

MOTOR KW

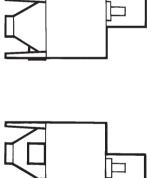
AFTERFILTER OVERALL HEIGHT OF

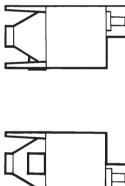
FOOTPRINT SIZE OF AFTERFILTER

SIZE

2864

750





RA1000

RDM

REVERSE

**JET CARTRIDGE FILTERS** 

**RA600 RA500 RA375** RA250

3600

4500

3116 3516

457 x 457

3000

7.5 5.5 **RA175 RA125** MODE

1500 1050

4 ω

2914 2914

632 x 1045

305 x 152

632 x 784

305 x 152

750 x 1045

305 x 228

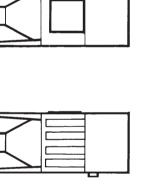
305 x 228

457 x 305

2914 2914

2250

**RA750** 



RJ4

1000

1500

4

3400

3400

3400

3400

1150 x 1820

1500 x 980

600 x 150

800 x 150

800 x 1330

800 x 980

MODEL

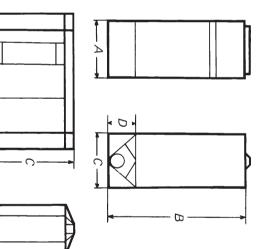
VOLUME CFM

MOTOR KW

OVERALL
HEIGHT OF
CARTRIGE FILTER

**AFTERFILTER** FOOTPRINT SIZE OF

SIZE



$\leq$	
7	
	1

$\leq$		
	<u> </u>	

RJ16 RJ12 RJ8 RJ6

5.5 7.5 7.5 11

3400

3400

1850 x 1820

1500 x 1820

2200 x 1820

1100 x 320

All dimensions are in mm.

RJ20

5000 4000 3000 2000

TES:-	

It should be noted that RDM make the powder booths to suit the individual customer's requirement. This offers total choice and flexibility for suitably sized cyclone/afterfilter combination it is necessary to calculate

is known, this should be multiplied by 100 to give the correct recovery unit rating in C.F.M. (cubic foot per minute) you the customer. The model name is intended to indicate only the **overall** size of the booth and as such the price of the booth. To select the the total booths aperture sizes. Once the total square footage figure