

CLEMENTS

Guide to the Range of Rotors and Adaptors to Suit Clements Centrifuges and Suspension Mixers

Manual Number CEN 91005 455
Issue 2

CLEMENTS

Guide to the Range of Rotors and Adaptors to suit Clements Centrifuges and Suspension Mixers

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Product Guide
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CEN 91504 - Orbital 310

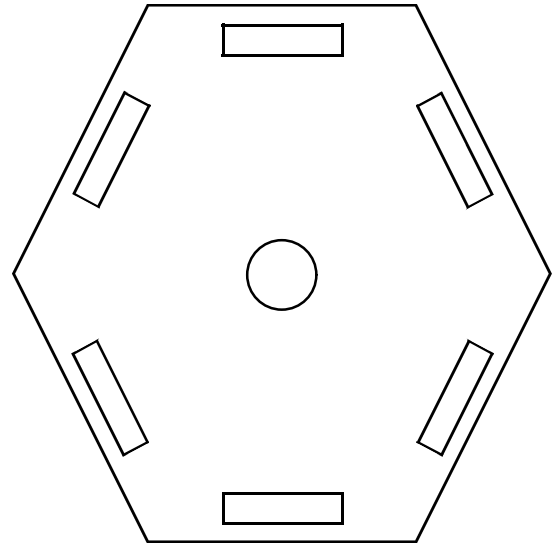
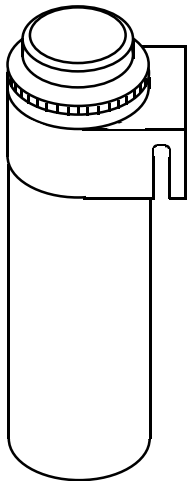
CEN 91510 - Orbital 320

Fitted with 6 Place Rotor

CEN 91501 100

**And supplied with Set of Six Carriers
with Aerosol Protection**

CEN 91508 001



Carrier	Diameter of Hole (Ø mm)	Max Tube Length No Aerosol Protection (mm)	Max Tube Length Aerosol Protected (mm)	Max Number of Tubes per Cycle
CEN 91508 001	19	105	105	6

CEN 91505 - Orbital 310

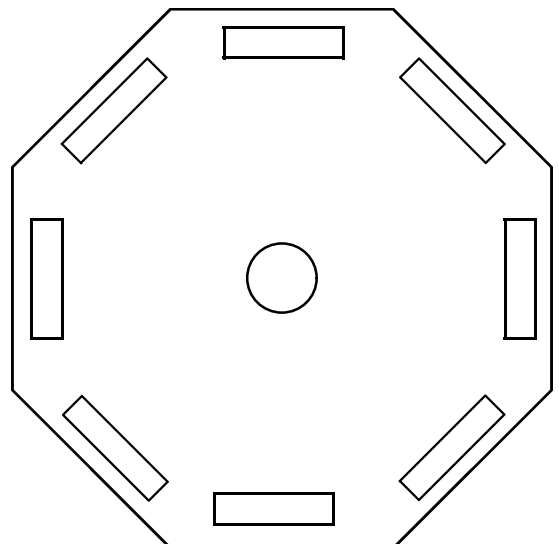
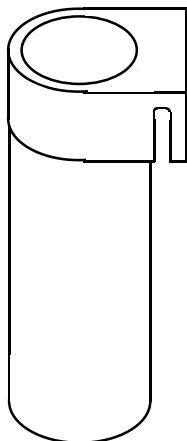
CEN 91509 - Orbital 320

Fitted with 8 Place Rotor

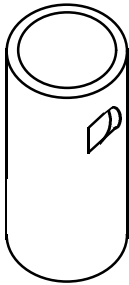
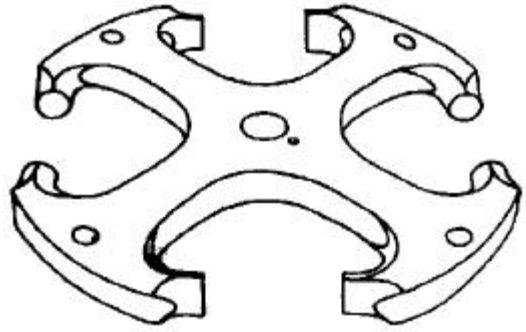
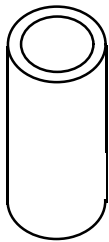
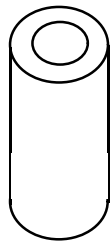
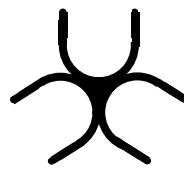
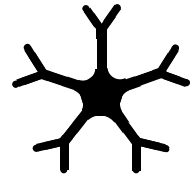
CEN 91501038

And supplied with 2 Sets of 4 Carriers

CEN 91501041



Carrier	Diameter of Hole (Ø mm)	Max Tube Length No Aerosol Protection (mm)	Max Number of Tubes per Cycle
CEN 91501 041	19	105	8

CEN 92115 - Orbital 420**Fitted with 4 Place Rotor****CEN 91004****And Supplied with****1 x Set of 4 100ml Buckets****CEN 91101****100 ml Bucket****No Aerosol Protection Available****CEN 91101****100 ml to 50 ml
CEN 91010****100 ml to 25 ml
CEN 91011****100 ml to 3 x 15 ml
CEN 91012****100 ml to 5 x 5 ml
CEN 91013**

	Diameter of Hole (Ø mm)	Maximum Tube Length (mm)	Number of Tubes per Bucket	Maximum Number of Tubes per Cycle
CEN 91101 (Bucket)	41.3	121	1	4
CEN 91010 (Adaptor)	29.3	125	1	4
CEN 91011 (Adaptor)	25.4	128	1	4
CEN 91012 (Adaptor)	17.9	121	3	12
CEN 91013 (Adaptor)	13.1	121	5	20

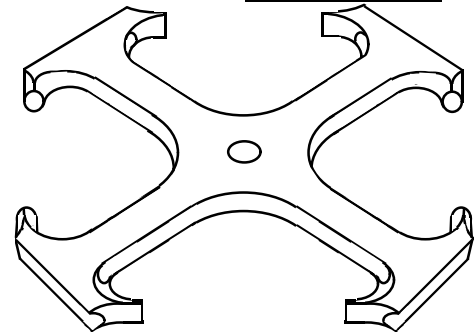
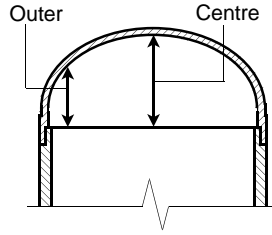
CLEMENTS

CEN 92116 - Orbital 420

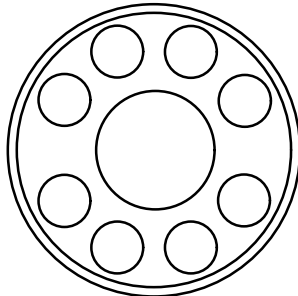
Fitted with 4 Place Rotor

CEN 93004

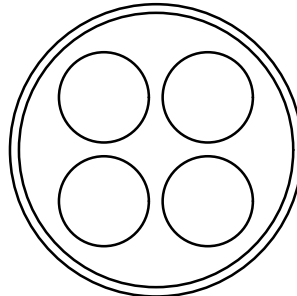
With the Following Buckets
Sold as Accessories



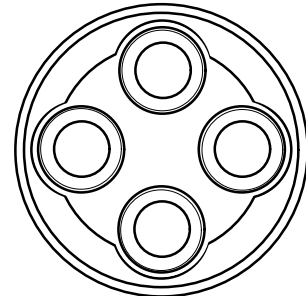
Buckets



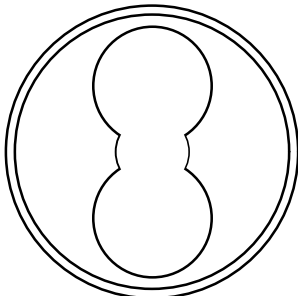
1 x 100 ml and 8 x 15 ml
CEN 93100



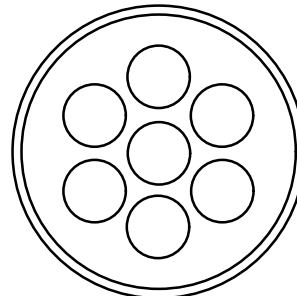
4 x 50 ml
CEN 93200



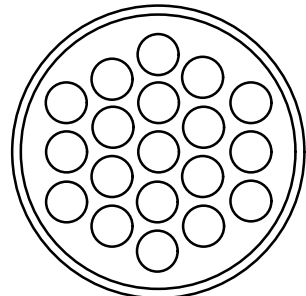
4 x 50 ml Falcon Tubes
CEN 93210



2 x
CEN 93211

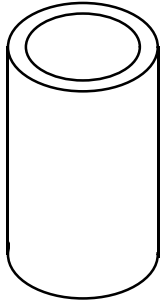


7 x 20 ml
CEN 93300

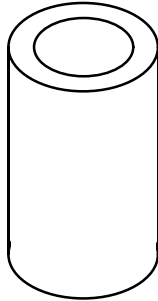


19 x 5 ml
CEN 93500

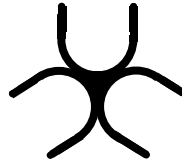
	Number of Holes	Diameter of Hole (Ø mm)	Maximum Tube Length @ Centre / Outer with Aerosol Protection (mm)	Maximum Tube Length @ Centre / Outer w/o Aerosol Protection (mm)	Number of Tubes per Bucket	Maximum Number of Tubes per Cycle
CEN 93100	8	19.1	99 / n/a	122 / n/a	9	36
	1	41.8	110 / n/a	141 / n/a		
CEN 93200	4	30.10	n/a / 105	n/a / 126	4	16
CEN 93210	4	30.50	n/a / 121	n/a / 129	4	16
CEN 93211	2	40.00	n/a / 73	n/a / 98	4	16
CEN 93300	7	21.50	120 / 105	148 / 130	7	28
CEN 93500	19	12.60	120 / 78	121 / 106	19	76

**Available Adaptors for
Clements Buckets**

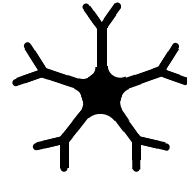
**100 ml to 50 ml
CEN 91010**



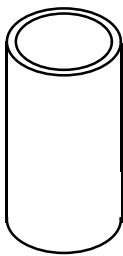
**100 ml to 25 ml
CEN 91011**



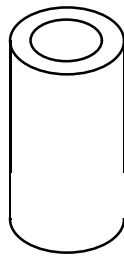
**100 ml to 3 x 15 ml
CEN 91012**



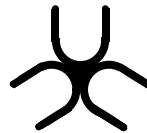
**100 ml to 5 x 5 ml
CEN 91013**



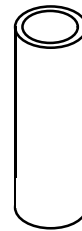
**50 ml to 25 ml
CEN 91014**



**50 ml to 15 ml
CEN 91015**



**50 ml to 3 x 5 ml
CEN 91016**

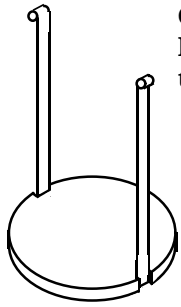
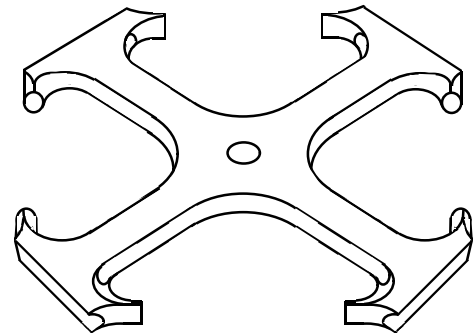


**15 ml to 5 ml
CEN 91018**

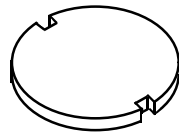
Adaptor	Number of Tubes	Converts From (ml)	Converts To (ml)	Inside Diameter (mm)	Outside Diameter (mm)	Length (mm)
CEN 91010	1	100	50	29.4	40.5	82.5
CEN 91011	1	100	25	25.4	40.5	82.5
CEN 91012	3	100	3 x 15	17.8	40.8	76.2
CEN 91013	5	100	5 x 5	13.1	40.8	76.2
CEN 91014	1	50	25	25.0	28.6	76.2
CEN 91015	1	50	15	19.1	28.6	76.2
CEN 91016	3	50	3 x 5	12.8	29.5	76.2
CEN 91018	1	15	5	13.0	16	76

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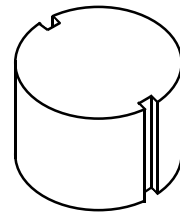
Multi Adaptors Bucket CEN 93800 With Cradle and Support Pad For 4 Place Rotor CEN 93004



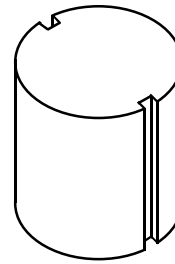
Cradle and Support Pad Included with the Bucket



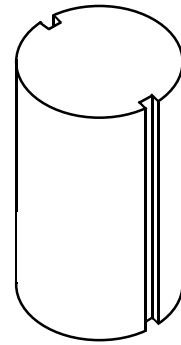
**Support Spacer
CEN 92020216**



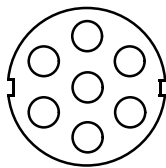
**Spacer 36mm
CEN 92020203**



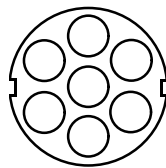
**Spacer 50mm
CEN 92020204**



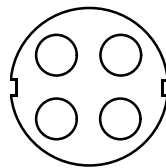
**Spacer 92mm
CEN 92020205**



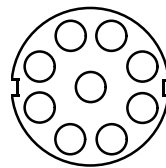
**7 x 5ml
CEN 93801**



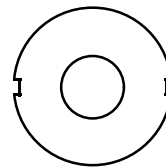
**7 x 15ml
CEN 93802**



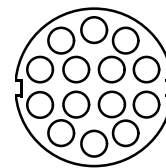
**4 x 15ml
CEN 93803**



**9 x 5ml
CEN 93804**



**1 x 50ml
CEN 93805**



**14 x 11ml
CEN 93806**

Cat. No.	Description	Diameter of Holes	Length of Adaptor (mm)	Maximum Tube Length @ Centre/ Outer Aerosol Protected	Maximum Tube Length @ Centre/ Outer No Aerosol Protection	Maximum Number of Tubes per Cycle
CEN 93801	Adaptor 7 x 5ml	13.5	28	121 / 105	145 / 130	28
CEN 93802	Adaptor 7 x 15ml	17	36	121 / 105	145 / 130	28
CEN 93803	Adaptor 4 x 15ml	17	36	114 / n/a	140 / n/a	16
CEN 93804	Adaptor 9 x 5ml	13	33	121 / 105	145 / 130	36
CEN 93805	Adaptor 1 x 50ml	30	92	119 / n/a	145 / n/a	4
CEN 93806	Adaptor 14 x 11ml	11	50	121 / 105	145 / 130	56
CEN 92020203	Spacer 36 mm	n/a	36	n/a	n/a	n/a
CEN 92020204	Spacer 50 mm	n/a	50	n/a	n/a	n/a
CEN 92020205	Spacer 92 mm	n/a	92	n/a	n/a	n/a
CEN 92020209	Support Pad	n/a	6	n/a	n/a	n/a
CEN 92020216	Support Spacer	n/a	6	n/a	n/a	n/a

CEN 961xx - Suspension Mixers**Clip Size Combinations per Rotor Disc****18 x 15 ml****9 x 15 ml + 9 x 50 ml****18 x 50 ml****30 x 15 ml**

The Clements range of suspension mixers have two clip sizes on offer. The table below shows the maximum and minimum tube diameters for each of these clips along with the maximum tube length for the range.

15 ml and 50 ml Clip	15 ml Clip		50 ml Clip	
	Maximum Tube Diameter (Ø mm)	Minimum Tube Diameter (Ø mm)	Maximum Tube Diameter (Ø mm)	Minimum Tube Diameter (Ø mm)
135	17	7	25	15