

# AERIAL FIRE SUPPRESSION EQUIPMENT

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**CLOUDBURST**

FIRE BUCKET

a product by IMS

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# Cloudburst Fire Bucket

## Considerations for selecting a Cloudburst Fire Bucket System

### Do you require the following?

- Multi-drop or Single-drop functionality
- Additive Injection capability
- Level Limiters (provides ability to limit the volume)
- An auxiliary power source (useful when aircraft electrical power is not available)
- Shallow Fill Pump
- Hard or Soft Shell (Hard Shell has vertical battens)

### Electrical Power:

Refer to the power requirements table on page 19 for details.

### Long Line:

This length can be determined by the customer. A Long Line of 50ft/15m or greater is recommended with the Cloudburst Fire Bucket.



## Configuration 1



Short Line  
In-line Air Compressor

The **Cloudburst Fire Bucket** has been designed to be strong, simple, lightweight, effective and is being utilized throughout the world.

### Capacities

US Gallons Capacity	Liters Capacity
34	130
53	200
74	280
111	420
132	500
169	640
198	750
232	880
264	1000
317	1200
370	1400
423	1600
476	1800
528	2000
660	2500
793	3000
925	3500
1057	4000
4500	1189
1321	5000
1981	7500
2641	10000

*Other volumes available on request*



Long Line  
(length at clients request  
15m/50ft or greater)

Long Line attaches here

Lift Hub

Stainless Steel Wire  
Rope Lift Lines

Cloudburst Fire Bucket  
with Monsoon Valve or  
Cyclone Valve



## Configuration 2

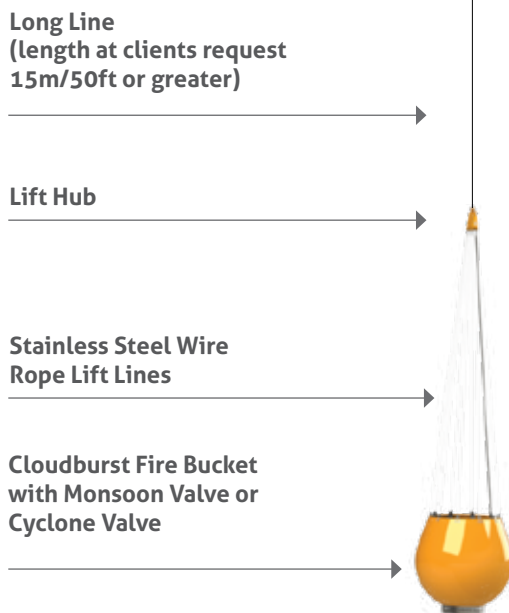


Compressor Module location

Compressor Module



**Configuration 2** requires a **Compressor Module**, located inside the aircraft that provides compressed air supply to the **Cloudburst Fire Bucket**. This module has a corded remote control for crew members to operate the **Cloudburst Fire Bucket**. It also can be coupled with our **Power Control Module**, which provides an auxiliary power supply to operate the entire system. Many combinations can be used to accommodate the needs required to operate your **Cloudburst Fire Bucket** system.



## Capacities

US Gallons Capacity	Liters Capacity
34	130
53	200
74	280
111	420
132	500
169	640
198	750
232	880
264	1000
317	1200
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528	2000
660	2500
793	3000
925	3500
1057	4000
4500	1189
1321	5000
1981	7500
2641	10000

*Other volumes available on request*

**A modern  
and reliable  
approach to  
aerial fire  
suppression.**

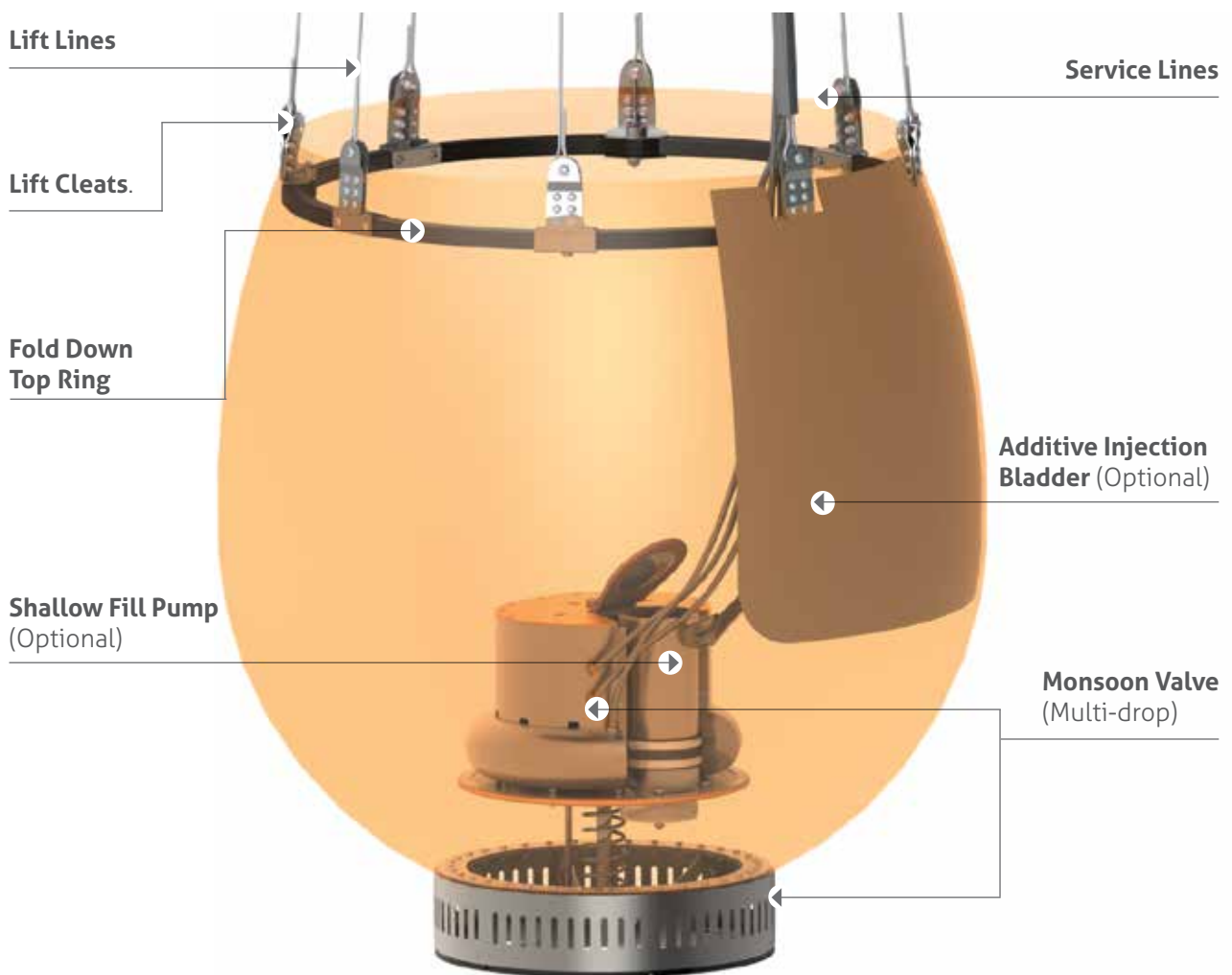


## **Cloudburst Features**

The **Cloudburst Fire Bucket** is a wise investment for military and civilian operations around the world due to its modern features, reliability, and design.

The **Cloudburst Fire Bucket** is made of tough and durable PVC, an industry-recognized super material that is tough and flexible. It is strong, load-bearing, impact-resistant, and capable of withstanding high operating temperatures. This material is also chosen for its strength, excellent UV stabilization, and strong resistance to the growth of algae and fungi.

# Cloudburst with Monsoon Valve



**Available in either Hard Shell or Soft Shell options**

The Monsoon Valve can be opened and closed multiple times per bucket load.

**Please note:** Valve size relates to bucket volume, refer to the table on page 19.

# Monsoon Valve

The **Monsoon Valve** requires electrical power to operate and to open/close, providing fast and reliable water release.

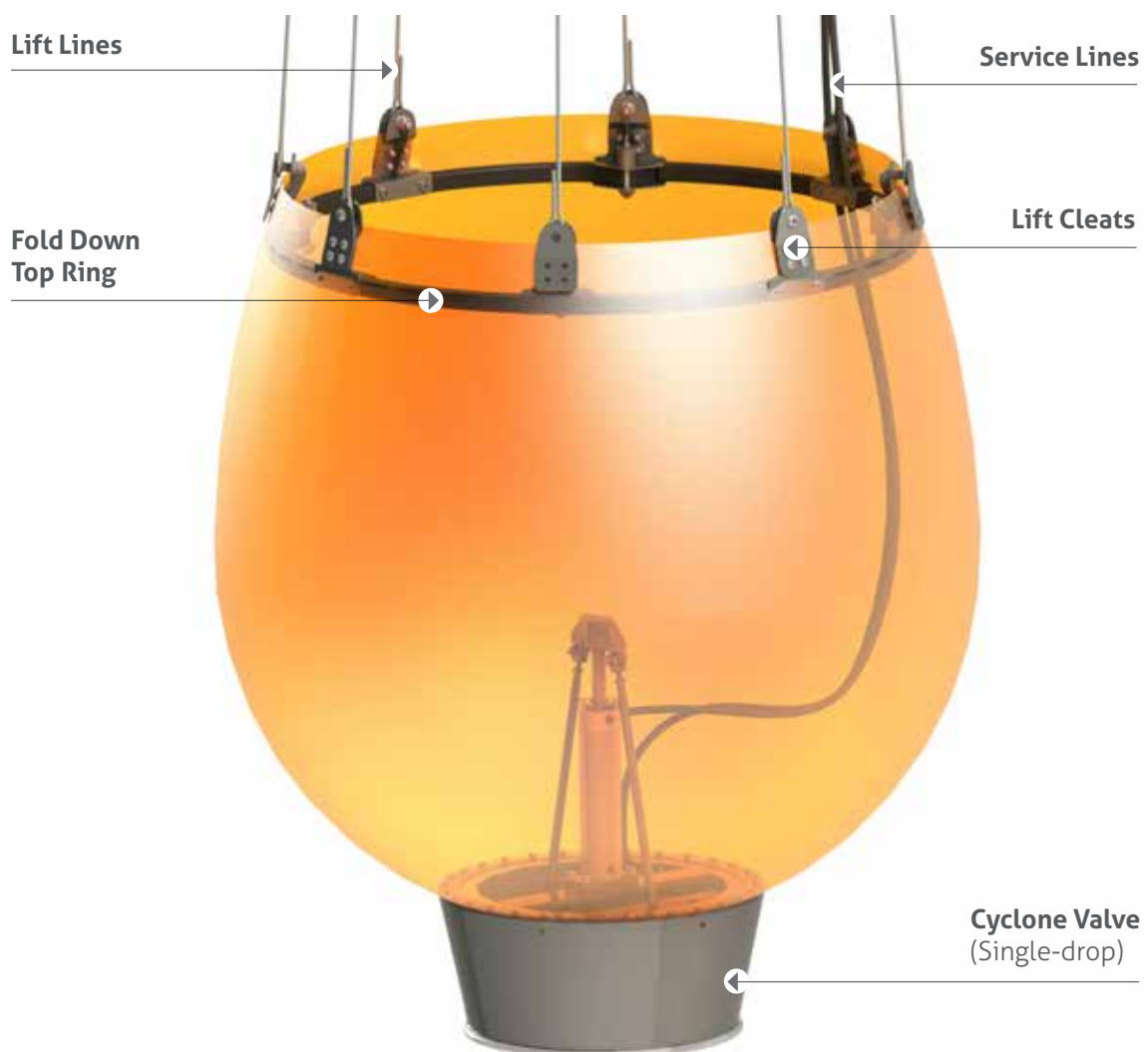
- Multi-drop
- Low maintenance
- User friendly



Monsoon Valve

**Please note:** All Monsoon Valves come with a Swath Plate that can be simply fitted to the underside of the Monsoon Valve to provide a broader drop pattern when required.

# Cloudburst with Cyclone Valve



**Available in either Hard Shell or Soft Shell options**

The Cyclone Valve, once opened, will release all contents.



# Cyclone Valve

The **Cyclone Valve** requires electrical power to open/close, providing a fast and reliable water release.

- Single-drop
- Low maintenance
- User friendly



Cyclone Valve

Cyclone Valves are an alternative option if the multi-drop function is not required.

# Accessories

Optional accessories available for the **Cloudburst Fire Bucket** range

## Long Line

**Long Lines** are manufactured specifically for our clients' requirements with all services encased within the zipped PVC protective cover.



## Additive Injection Options

There is a choice of either a bladder that attaches to the internal side wall of the **Cloudburst Fire Bucket**, or a rigid tank that is stored in the aircraft cabin. Either **Additive Injection System** can deliver a timed volume of chemical into the bucket of water. Agitation will occur during the water release.



Additive Filler Cap

Additive Pump

Level Indicator



## Additive Controller

The optional **Additive Controller** ensures the quantity of chemical being injected into each load of water is accurate and consistent.



# Accessories

## Level Limiters

**Level Limiters** can be installed if required to limit the volume of water carried within the **Cloudburst Fire Bucket**.

Simply remove the plug to allow the excess volume to be discharged from the bucket during the filling process.



## Carry / Stowage Bag

Compact and tidy, all **Cloudburst Fire Buckets** up to and including the CB5000 come complete with a carry bag.



## Shallow Fill Pump DC

Developed to be both effective and easy to use, the 28VDC, 50 amp **Shallow Fill Pump** is built into the **Monsoon Valve**, providing mechanical protection when the bucket is manoeuvred into tight spaces for filling. With a filling rate in excess of 25 liters (6.6 gallons) per second per pump and a minimum filling depth required of 0.2 meters (8 inches) the **Shallow Fill Pump** is a vital tool when available water sources are limited.

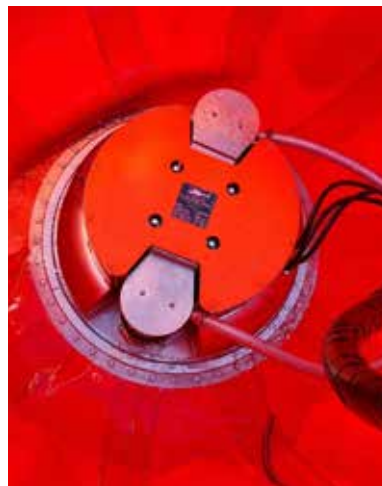
Shell Mounted DC Pump



Monsoon Valve Mounted DC Pump  
(single)



Monsoon Valve Mounted DC Pumps  
(dual)



# Accessories

## Shallow Fill Pump AC

**Shallow Fill Pump AC**, a 3 phase 208VAC, 50 amp, 400HZ, 10hp pump at a flow rate of 100 liters (26 gallons) per second. This assembly has been designed to bolt onto the shell of the **Cloudburst Fire Bucket**, and is suitable for buckets of 2500 liters (658 gallon) or larger with either a **Monsoon** or **Cyclone Valve** fitted.

Shell Mounted AC Pump



Shell Mounted AC Pump



## Inline Compressors

The electrically powered **Inlie Compressor** offers a lightweight and compact external load, providing a compressed air supply to the **Cloudburst Fire Bucket**.

Suitable for  
CB1600 - CB5000



Suitable for  
CB130 - CB1400



Model	Voltage DC	Air Flow at zero psi feet <sup>3</sup> /min	Maximum current draw (amps)	Weight kg / lb
IL250-12-1	12	1	6	9 / 20
IL250-24-1	24	1	6	9 / 20
IL450-24-1	24	2.2	13	11 / 24
IL450-24-2	24	4.4	26	18 / 40
IL450-24-3	24	6.6	39	30 / 66

# Accessories

## Compressor Module

The **Compressor Module** supplies the **Monsoon** or **Cyclone Valve** with the compressed air supply to operate.



Model	Voltage DC	Air Flow at zero psi feet <sup>3</sup> /min	Maximum current draw (amps)	Weight kg / lb
CM250-12-1	12	1	6	9.6 / 21
CM250-24-1	24	1	6	9.6 / 21
CM450-24-1	24	2.2	13	13 / 29
CM450-24-2	24	4.4	26	18 / 40
CM450-24-3	24	6.6	39	26 / 57

## Power and Control Module

This module has been designed to provide an auxiliary power supply and control to operate the **Cloudburst Fire Bucket** and associated accessories without the need to draw electrical power from the aircraft's electrical system.



Model	Voltage DC	Ah	Weight kg / lb
PCM-6	24	6	9.6 / 21
PCM-18	24	18	18 / 40
PCM-36	24	36	31 / 68
PCM-80	24	80	68 / 150
PCM-120	24	120	80 / 176
PCM-165	24	165	122 / 296
PCM-270	24	270	184 / 405



## Compressor, Power and Control Module

This module is very similar to the **Power Control Module**. It also contains an air compressor.



Model	Voltage DC	Ah	Max amps	Weight kg / lb
CPCM-250-24-22	24	22	6	40 / 88
CPCM-250-24-36	24	36	6	51 / 112
CPCM-450-24-80	24	80	13	71 / 157
CPCM-450-24-2-80	24	80	26	80 / 176
CPCM-450-24-120	24	120	13	86 / 190
CPCM-450-24-2-120	24	120	26	94 / 207
CPCM-450-24-165	24	165	13	126 / 278
CPCM-450-24-2-165	24	165	26	134 / 295
CPCM-450-24-270	24	270	13	182 / 401
CPCM-450-24-2-270	24	270	26	192 / 423



Keeping it  
simple.

Model	Liters	USG	Weight kg/lb	Air Comp amps	SFP amps DC *	Qty DC SFP	SFP Flow DC L/sec (G/sec)	SFP Current amps AC ^	SFP Flow L/sec (G/sec)	AIS amps DC	AIS Weight	AIS Bladder Volume (Liters)
CB130	130	34	22 / 49	7.5 ~	-	-	-	-	-	3	2kg / 4.5lb	12
CB200	200	53	25 / 55	7.5 ~	-	-	-	-	-	3	2kg / 4.5lb	12
CB280	280	74	29 / 64	7.5 ~	-	-	-	-	-	3	2kg / 4.5lb	12
CB420	420	111	40 / 88	7.5 ~	-	-	-	-	-	3	3kg / 6.6lb	17
CB500	500	132	41 / 90	7.5 ~	-	-	-	-	-	3	3kg / 6.6lb	17
CB640	640	168	43 / 95	7.5 ~	-	-	-	-	-	3	3kg / 6.6lb	17
CB750	750	197	45 / 99	7.5 ~	-	-	-	-	-	3	3kg / 6.6lb	17
CB880	880	232	58 / 128	15 #	50	1	25 (6.6)	-	-	3	4kg / 8.8lb	45
CB1000	1000	263	59 / 130	15 #	50	1	25 (6.6)	-	-	3	4kg / 8.8lb	45
CB1200	1200	316	60 / 132	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lb	62
CB1400	1400	368	65 / 143	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lb	62
CB1600	1600	421	70 / 154	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lb	70
CB1800	1800	474	88 / 194	25 0	100	2	50 (13.2)	50	100 (26)	6	6kg / 13lb	70
CB2000	2000	526	90 / 198	25 0	100	2	50 (13.2)	50	100 (26)	6	6kg / 13lb	80
CB2500	2500	658	110 / 243	25 0	100	2	50 (13.2)	50	100 (26)	9	8kg / 17.6lb	110
CB3000	3000	789	120 / 265	25 0	100	2	50 (13.2)	50	100 (26)	9	8kg / 17.6lb	120
CB3500	3500	921	125 / 276	25 0	100	2	50 (13.2)	50	100 (26)	9	10kg / 22lb	140
CB4000	4000	1053	165 / 276	25 0	100	2	50 (13.2)	50	100 (26)	9	13kg / 28.6lb	150
CB4500	4500	1189	168 / 370	25 0	100	2	50 (13.2)	50	100 (26)	9	13kg / 28.6lb	160
CB5000	5000	1316	171 / 377	25 0	100	2	50 (13.2)	50	100 (26)	9	13kg / 28.6lb	190
CB7500	7500	1974	199 / 439	40 +	-	-	-	50	100 (26)	12	18kg / 39.6lb	225
CB10000	10000	2632	214 / 472	40 +	-	-	-	50	100 (26)	12	18kg / 39.6lb	300

Each **Cloudburst Fire Bucket Model** can have either a Multi-drop Monsoon Valve (M) or a Single-drop Cyclone Valve (C).

Example: CB1200M = Cloudburst Fire Bucket CB1200 Multi-drop Monsoon Valve  
 CB1200C = Cloudburst Fire Bucket CB1200 Single-drop Cyclone Valve

- Ø Excludes Ballast weight(s)
- ✱ Power requirements 24-28vdc
- ^ Power requirements 3 phase, 208vac, 400Hz
- ~ Weight of Compressor 9kg / 20lb
- # Weight of Compressor 11kg / 24lb
- 0 Weight of Compressor 18kg / 40lb
- + Weight of Compressor 30kg / 66lb
- Weight per DC pump 9kg / 20lb
- Weight per AC pump 38kg / 83lb
- Comp = Air Compressor either Inline or Compressor Module
- amps = Electrical Current Draw
- SFP = Shallow Fill Pump
- DC = Direct Current
- AC = Alternating Current
- AIS = Additive Injection System

**Achieve a  
fast and  
accurate  
water  
drop.**





The 21st century features of the **Cloudburst Fire Bucket** provide rapid filling, fast valve operation, low maintenance and ease of use, making the **Cloudburst Fire Bucket** a wise investment.



# Cloudburst Dam

## Strong and durable water storage.

Designed for water storage for fire fighting, the **Cloudburst Dam** has many other uses to contain liquids.

**Cloudburst Dams** have a foam-filled top ring that will float on the contained liquid, thereby erecting itself as it fills.



## Key Benefits:

- Available in specific fabrics best suited for application
- RF-welded construction for superior strength
- Light weight and compact for transportation
- Easy to clean and re-use

## Product

Water

## Material

Polyester reinforced PVC 1250g/m<sup>2</sup>

## Standard Equipment

1 x Skin Fitting and Ball Valve

Ground Sheet

Carry Bag



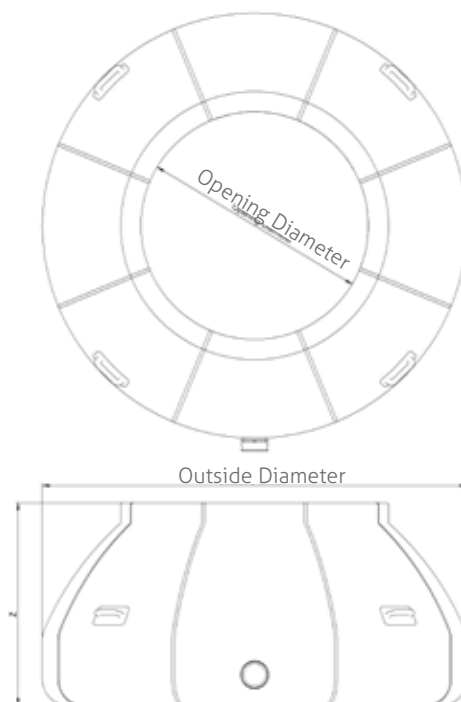
## Optional Additional Equipment

Skin fittings - 38mm - (1 1/2"), 50mm - (2"), 75mm - (3"), 100mm - (4")

Ball valves - 38mm - (1 1/2"), 50mm - (2"), 75mm - (3"), 100mm - (4")

<b>Volume</b>	<b>Liters</b>	<b>1200</b>	<b>2200</b>	<b>5000</b>	<b>10000</b>	<b>15000</b>	<b>18000</b>	<b>20000</b>	<b>25000</b>	<b>30000</b>	<b>40000</b>
	<b>Gallons</b>	<b>316</b>	<b>580</b>	<b>1320</b>	<b>2640</b>	<b>3960</b>	<b>4755</b>	<b>5283</b>	<b>6600</b>	<b>7925</b>	<b>10565</b>
Outside Diameter (mm)		1600	2100	2900	4000	5200	5300	5350	5400	6000	6200
Total Height (mm) Z		950	1000	1250	1500	1400	1400	1400	1400	1900	2100
Opening Diameter (mm)		1000	1125	1400	2100	2900	3400	3400	3400	3400	3500
Tare Weight (kg)		22	31	46	57	71	89	94	101	109	116
<b>Carry Bag Size</b>											
Length (X)		750	1000	1200	1500	1650	1700	1750	2100	2250	2350
Width (Y)		600	700	950	1150	1150	1150	1150	1150	1150	1150
Height (Z)		400	450	500	650	750	750	750	750	750	750
<b>Shipping Crate Size</b>											
Length (X)		800	1050	1250	1550	1700	1750	1800	2150	2400	2400
Width (Y)		650	750	1000	1200	1200	1200	1200	1200	1200	1200
Height (Z)		550	600	650	800	900	900	900	900	900	900
Weight (kg) incl Crate		75	90	101	116	141	158	165	179	186	194

*Note: These dimensions and weights are guidelines only and may vary.*



**Please note:** Additional sizes and material choices are available upon request.



**For all your helicopter equipment needs, contact us today!**



**CLOUDBURST**

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a product by IMS

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