

AERIAL FIRE
SUPPRESSION
EQUIPMENT
imsheli.com



CLOUDBURST
FIRE BUCKET
a product by IMS



Cloudburst Fire Bucket

Considerations for selecting a Cloudburst Fire Bucket System

Do you require the following?

- Multi-drop or single drop functionality
- Chemical 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 11 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



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

Long Line attaches here

Lift Hub

Stainless Steel
Wire Lift Lines

Cloudburst Fire Bucket
with Monsoon Valve or
Cyclone Valve

* Other volumes available on request



Configuration 2



Compressor Module location

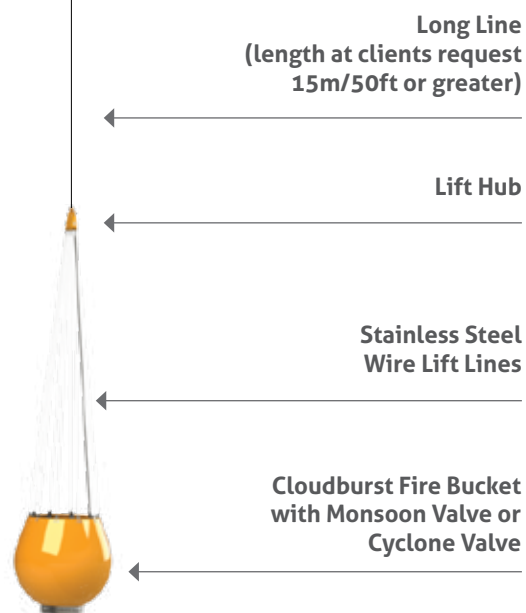
Compressor Module



Configuration 2 requires a **Compressor Module**, located inside the aircraft that provides compressed air supply to the **Monsoon Valve**. 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.



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

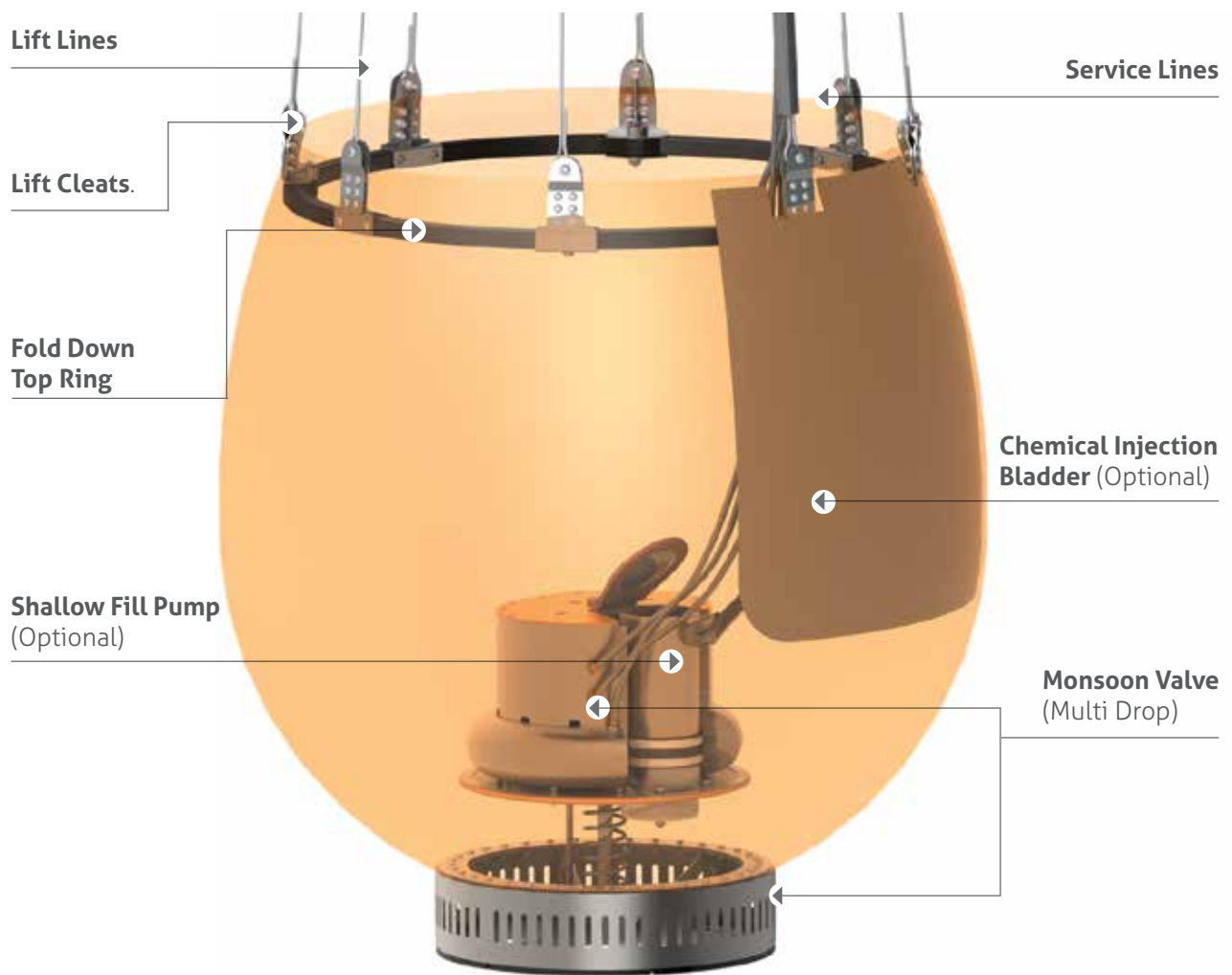


Cloudburst Features

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

Please note: Valve size relates to bucket volume, refer to the table on page 11.

Monsoon Valve

The **Monsoon Valve** requires electrical power to operate and open/close.

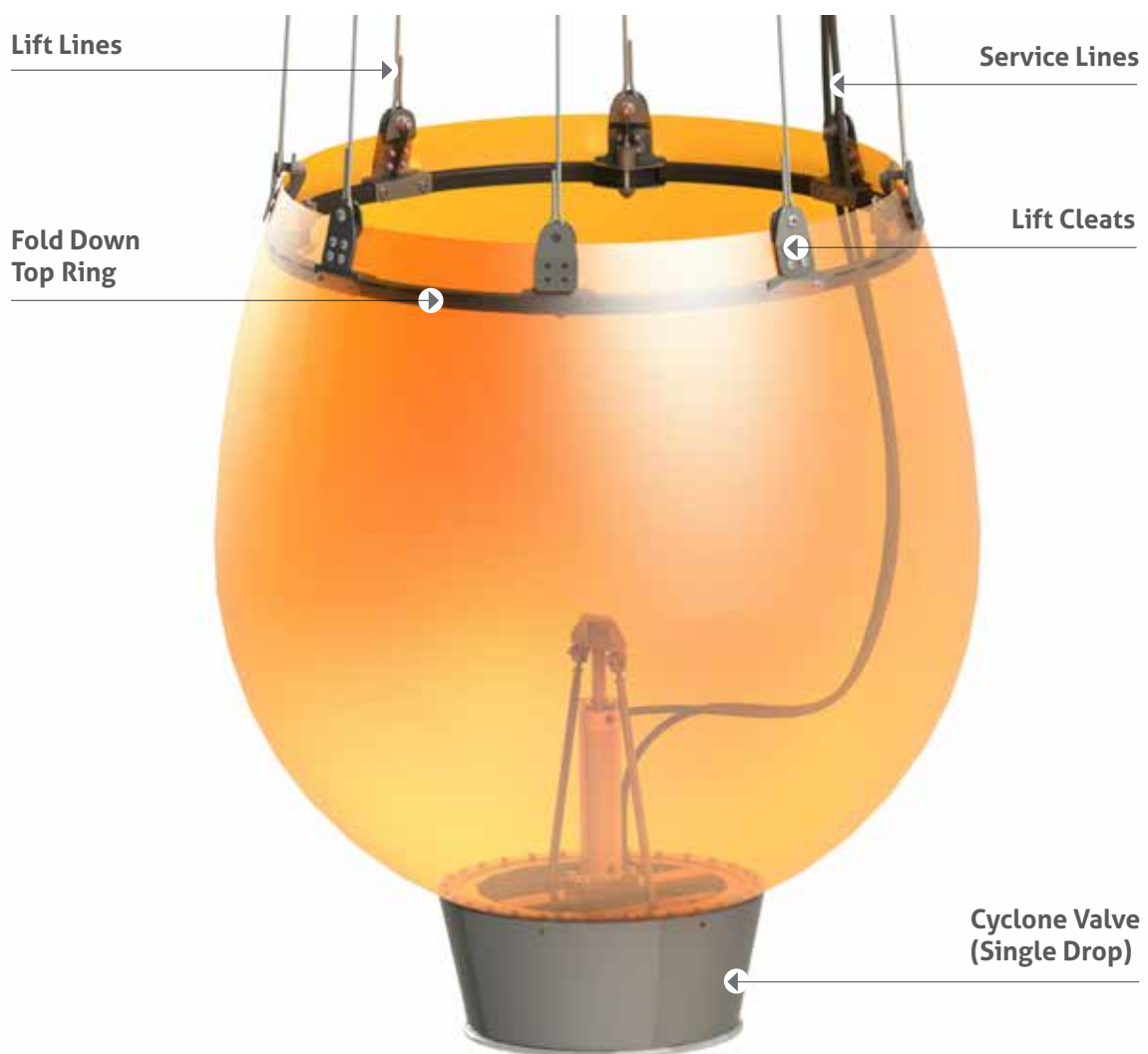
- Multi-drop
- Low maintenance
- User friendly



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

Cyclone Valve

The **Cyclone Valve** is electrically actuated, 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 or if the aircraft's electrical power output is restricted to less than 10amps.



Keeping it
simple.

Cloudburst Fire Bucket Model	Volume Liters	Volume USG	Approx. Drop Flow Rate L/sec (gal/sec)	Approx. Bucket Empty Weight kg/lbs	Comp Current amps	SFP Current amps DC	Qty DC SFP	SFP Flow Rate DC L/sec (G/sec)	SFP Current amps AC	SFP Flow Rate L/sec (G/sec)	CIS Current amps DC	CIS Weight
CB130	130	34	62 (16)	22 / 49	7.5 ~	-	-	-	-	-	3	2kg / 4.5lbs
CB200	200	53	62 (16)	25 / 55	7.5 ~	-	-	-	-	-	3	2kg / 4.5lbs
CB280	280	74	62 (16)	29 / 64	7.5 ~	-	-	-	-	-	3	2kg / 4.5lbs
CB420	420	111	125 (33)	40 / 88	7.5 ~	-	-	-	-	-	3	3kg / 6.6lbs
CB500	500	132	125 (33)	41 / 90	7.5 ~	-	-	-	-	-	3	3kg / 6.6lbs
CB640	640	168	125 (33)	43 / 95	7.5 ~	-	-	-	-	-	3	3kg / 6.6lbs
CB750	750	197	125 (33)	45 / 99	7.5 ~	-	-	-	-	-	3	3.5kg / 7.7lbs
CB880	880	232	240 (63)	58 / 128	15 #	50	1	25 (6.6)	-	-	3	4kg / 8.8lbs
CB1000	1000	263	240 (63)	59 / 130	15 #	50	1	25 (6.6)	-	-	3	4kg / 8.8lbs
CB1200	1200	316	240 (63)	60 / 132	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lbs
CB1400	1400	368	285 (75)	65 / 143	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lbs
CB1600	1600	421	285 (75)	70 / 154	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lbs
CB1800	1800	474	500 (132)	88 / 194	25 0	100	2	50 (13.2)	50	100 (26)	6	6kg / 13lbs
CB2000	2000	526	500 (132)	90 / 198	25 0	100	2	50 (13.2)	50	100 (26)	6	6kg / 13lbs
CB2500	2500	658	500 (132)	110 / 243	25 0	100	2	50 (13.2)	50	100 (26)	9	8kg / 17.6lbs
CB3000	3000	789	500 (132)	120 / 265	25 0	100	2	50 (13.2)	50	100 (26)	9	8kg / 17.6lbs
CB3500	3500	921	700 (185)	125 / 276	25 0	100	2	50 (13.2)	50	100 (26)	9	10kg / 22lbs
CB4000	4000	1053	700 (185)	165 / 276	25 0	100	2	50 (13.2)	50	100 (26)	9	13kg / 28.6lbs
CB4500	4500	1189	700 (185)	168/370	25 0	100	2	50 (13.2)	50	100 (26)	9	13kg / 28.6lbs
CB5000	5000	1316	700 (185)	171 / 377	25 0	100	2	50 (13.2)	50	100 (26)	9	13kg / 28.6lbs
CB7500	7500	1974	980 (259)	199 / 439	40 +	-	-	-	50	100 (26)	12	18kg / 39.6lbs
CB10000	10000	2632	980 (259)	214 / 472	40 +	-	-	-	50	100 (26)	12	18kg / 39.6lbs

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

Example: CB130M = Cloudburst Fire Bucket CB130 Multi Drop Monsoon Valve

CB130C = Cloudburst Fire Bucket CB130 Single Drop Cyclone Valve

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

Please note: Some Valve and Bucket shell combinations can be configured to suit client needs; for example, the CB1400 can have a Valve 660 fitted if required.

Accessories

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



Chemical Injection Options

A bladder can be attached to the side wall of the **Cloudburst Fire Bucket** or a **Chemical Tank** that can be carried in the aircraft.

Either **Chemical Injection System** can deliver a timed volume of chemical into the bucket of water. Agitation will occur during the water release.

Chemical Filler Cap



Chemical Pump



Level Indicator



50 Litre
Chemical Tank

Chemical Controller

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



Long Line

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



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.

Inline Compressors

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



Suitable for
CB1800 - CB5000

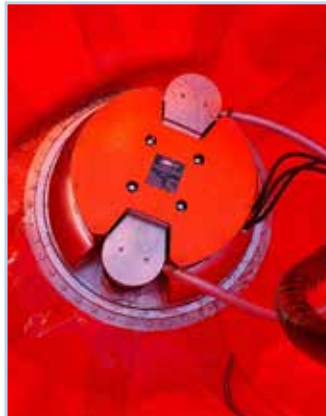


Suitable for
CB130 - CB1600

DC Pump



DC Pump



AC Pump



AC Pump

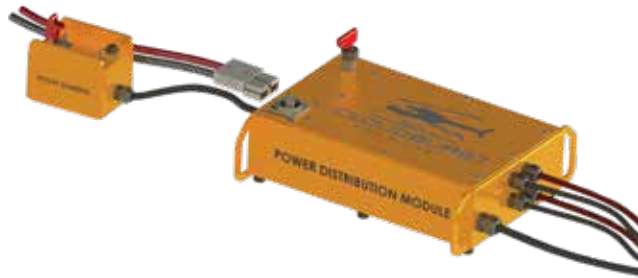


Shallow Fill Pump DC

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 0.16 meters (6.3 inches) the **Shallow Fill Pump** is a vital tool when available water sources are limited.

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.



Power Distribution Module

Powered by the aircraft electrical power, the **Power Distribution Module** is a fully integrated system giving you control of all systems on your **Cloudburst Fire Bucket** including valve control, **Chemical Injection** timing and **Shallow Fill Pump** control.

Compressor Module

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



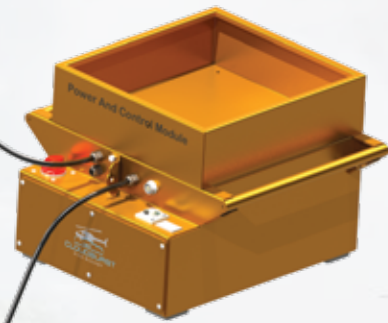
Model	Voltage DC	Air Flow at zero psi feet ³ /min	Maximum current draw (amps)	Weight kg / lbs
CM250-12-1	12	1	6	9.6 / 21
CM250-24-1	24	1	6	9.6 / 21
CM450-24-1	24	2.2	13	13 / 29
CM450-24-2	24	4.4	26	18 / 40
CM450-24-3	24	6.6	39	26 / 57

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	Amp Hours	Weight kg / lbs
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	Amp Hours	Air Flow at zero psi feet ³ /min	Maximum current draw (amps)	Weight kg / lbs
CPCM-250-24-22	24	22	1	6	40 / 88
CPCM-250-24-36	24	36	1	6	51 / 112
CPCM-450-24-80	24	80	2.2	13	71 / 157
CPCM-450-24-2-80	24	80	4.4	26	80 / 176
CPCM-450-24-120	24	120	2.2	13	86 / 190
CPCM-450-24-2-120	24	120	4.4	26	94 / 207
CPCM-450-24-165	24	165	2.2	13	126 / 278
CPCM-450-24-2-165	24	165	4.4	26	134 / 295
CPCM-450-24-270	24	270	2.2	13	182 / 401
CPCM-450-24-2-270	24	270	4.4	26	192 / 423

Carry / Stowage Bag

Compact and tidy, all **Cloudburst Fire Buckets** up to and including the CB2000 come complete with a carry bag.



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
- HF-welded construction for superior strength
- Light weight and compact for transportation
- Easy to clean and re-use
- Repairable when full

Capacity

	<i>Liters</i>	<i>1,200L</i>	<i>2,200L</i>	<i>5,000L</i>	<i>10,000L</i>
	<i>Gallons</i>	<i>316G</i>	<i>580G</i>	<i>1,320G</i>	<i>2,640G</i>
Diameter (mm)	(Y)	1600	2300	2900	4000
Height (mm)	(Z)	850	900	1150	1400
Top opening (mm)	(X)	1000	1125	1400	2100

	<i>Liters</i>	<i>15,000L</i>	<i>18,000L</i>	<i>25,000L</i>	<i>40,000L</i>
	<i>Gallons</i>	<i>3,960G</i>	<i>4,755G</i>	<i>6,600G</i>	<i>10,565G</i>
Diameter (mm)	(Y)	5200	5300	5400	6200
Height (mm)	(Z)	1300	1300	1300	2000
Top opening (mm)	(X)	2900	3400	3400	3500

Other sizes manufactured to customer's requirements

Product

Material

Water	Polyester reinforced PVC 1250g/m ²
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Standard Equipment

1 x Skin Fitting and Ball Valve
Ground Sheet
Carry Bag



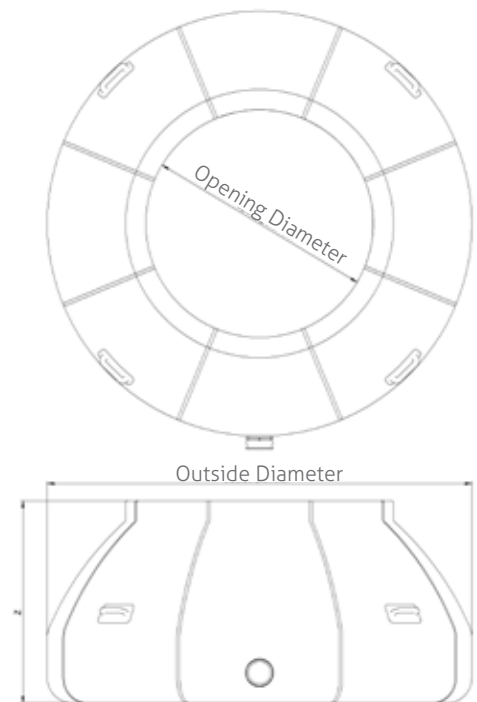
Optional Additional Equipment

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

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

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

Note: These dimensions and weights are guide lines only and may vary.



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

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.





For all your helicopter equipment needs, contact us today!



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