

AERIAL FIRE  
SUPPRESSION  
EQUIPMENT  
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**CLOUDBURST**  
FIRE BUCKET  
a product by IMS

[imsheli.com](http://imsheli.com)



# Cloudburst Fire Bucket

## Considerations for selecting a Cloudburst Fire Bucket System

### Do you require the following?

- Multi-drop or single drop functionality
- Foam 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

### Electrical Power:

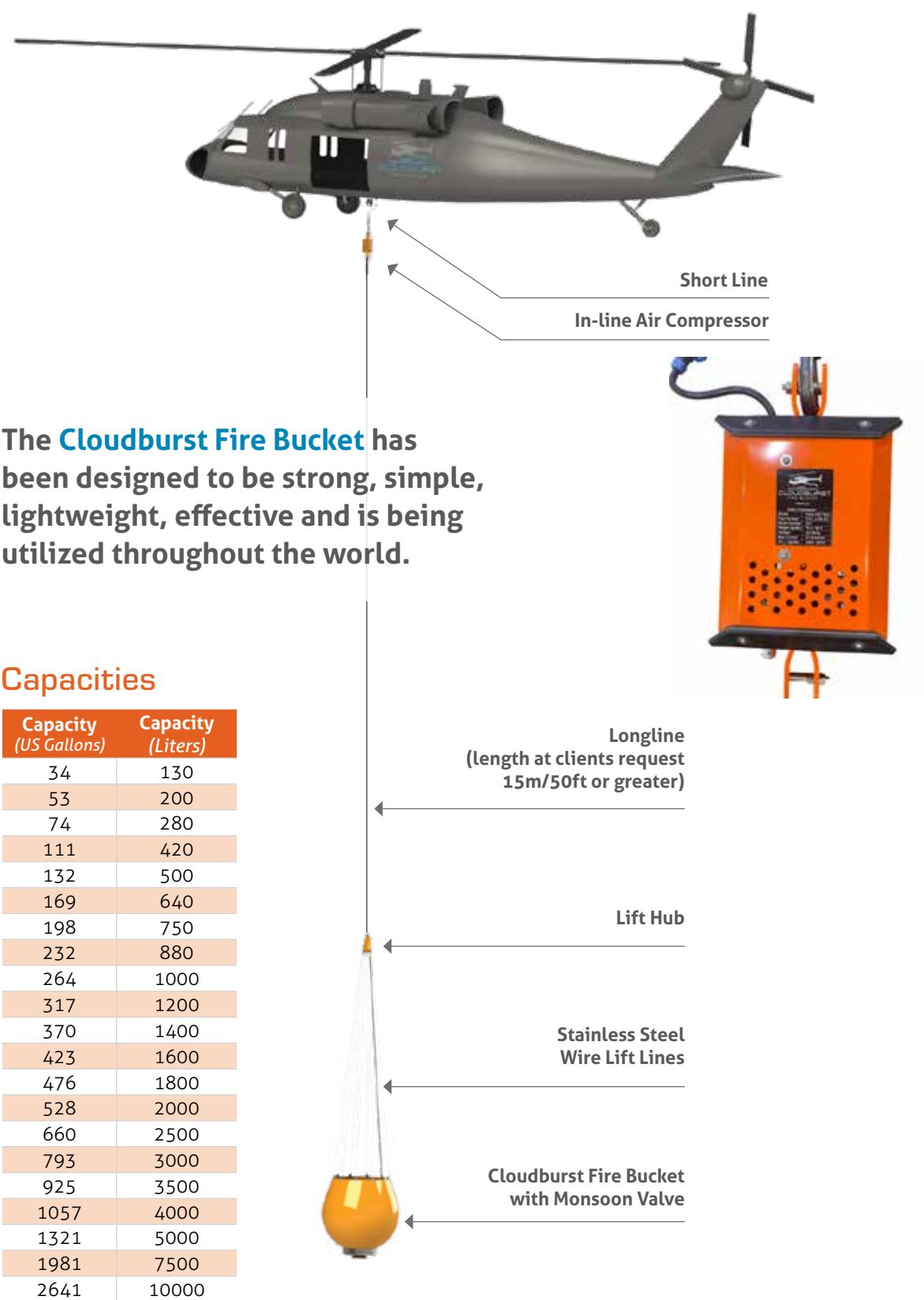
Refer to the power requirements table on page 11 for details.

### 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

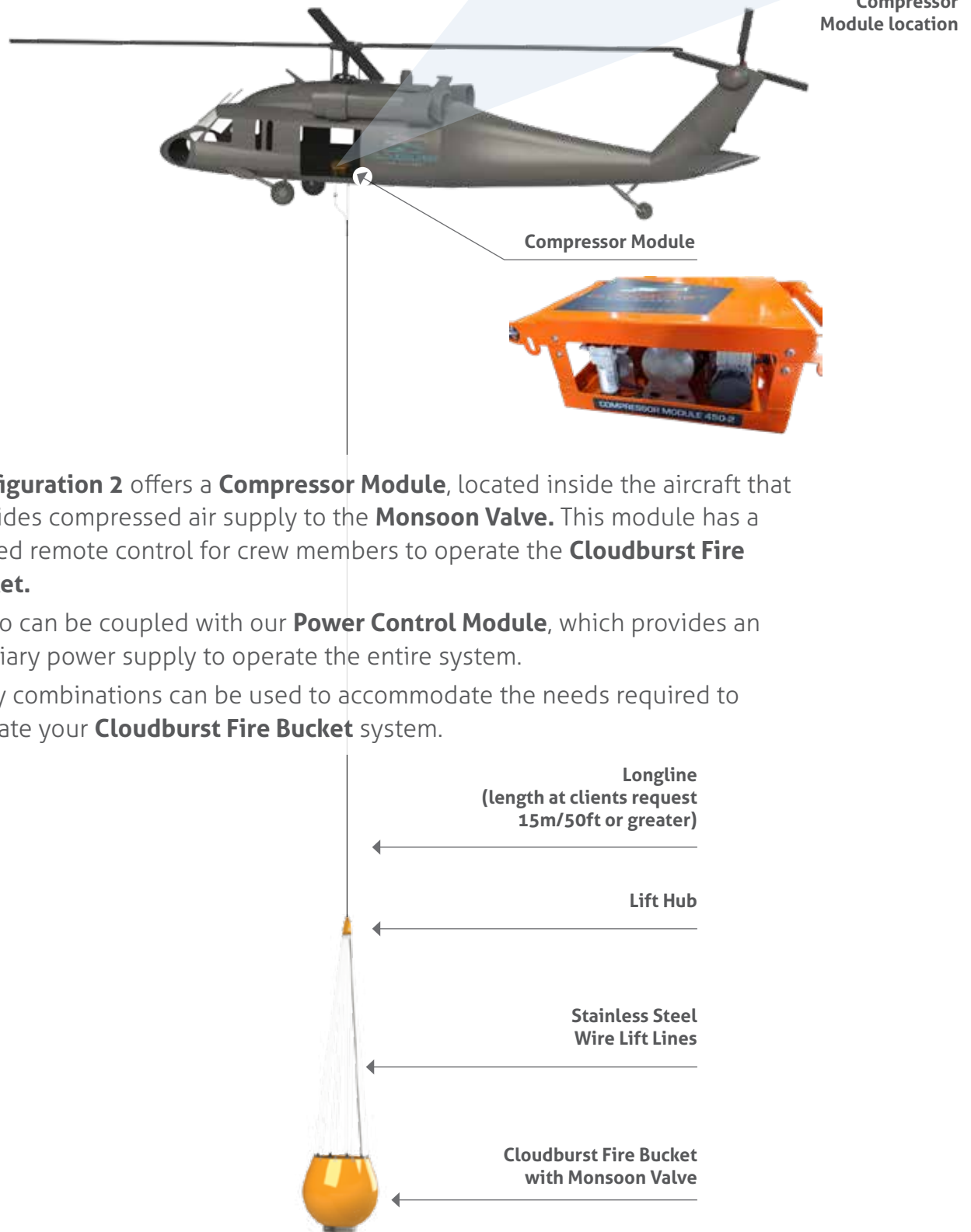


The **Cloudburst Fire Bucket** has been designed to be strong, simple, lightweight, effective and is being utilized throughout the world.

Capacities

Capacity (US Gallons)	Capacity (Liters)
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
1321	5000
1981	7500
2641	10000

## Configuration 2

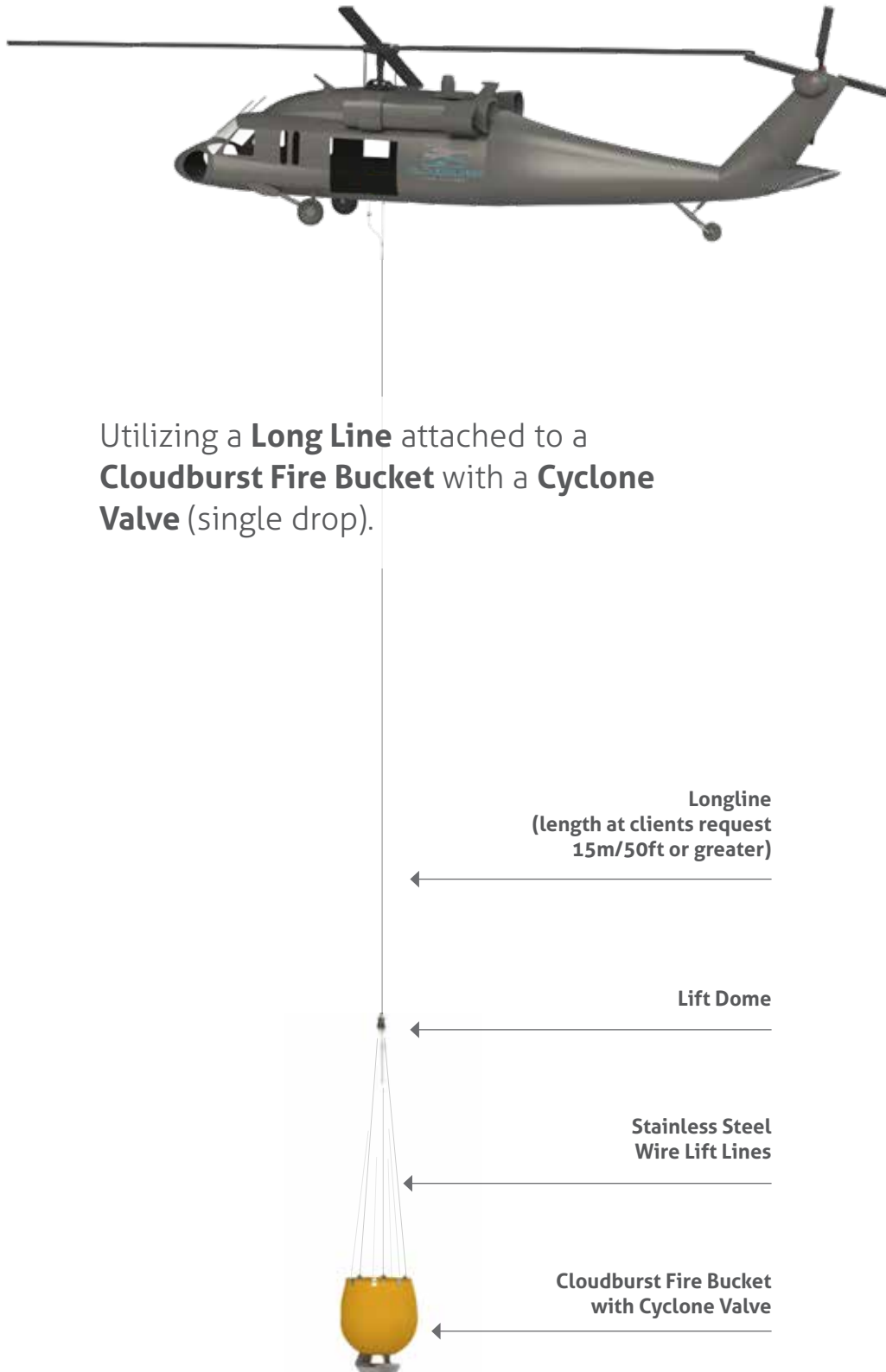


**Configuration 2** offers a **Compressor Module**, located inside the aircraft that provides compressed air supply to the **Monsoon Valve**. This module has a corded remote control for crew members to operate the **Cloudburst Fire Bucket**.

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.

### Configuration 3



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





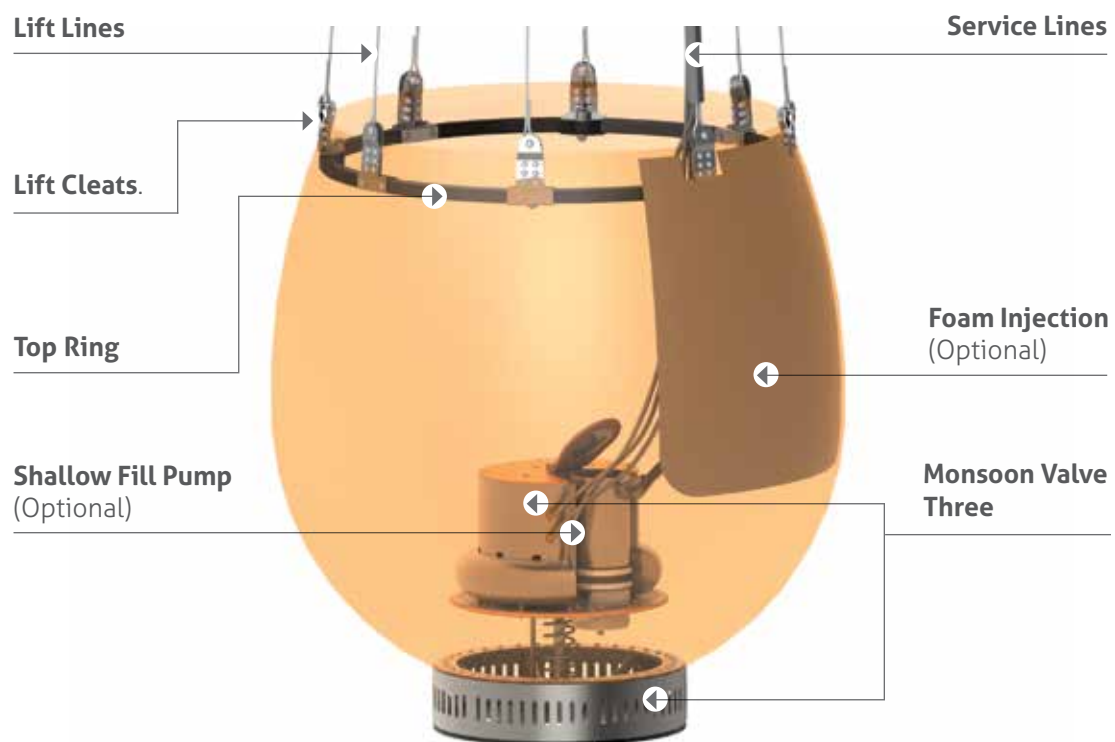


Keeping it  
simple.

# 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.



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



# Monsoon Valve

The **Monsoon Valve** is operated by compressed air and controlled by an electrical input providing a fast and reliable water release.

- Multi-drop
- Low maintenance
- User friendly



Valve One



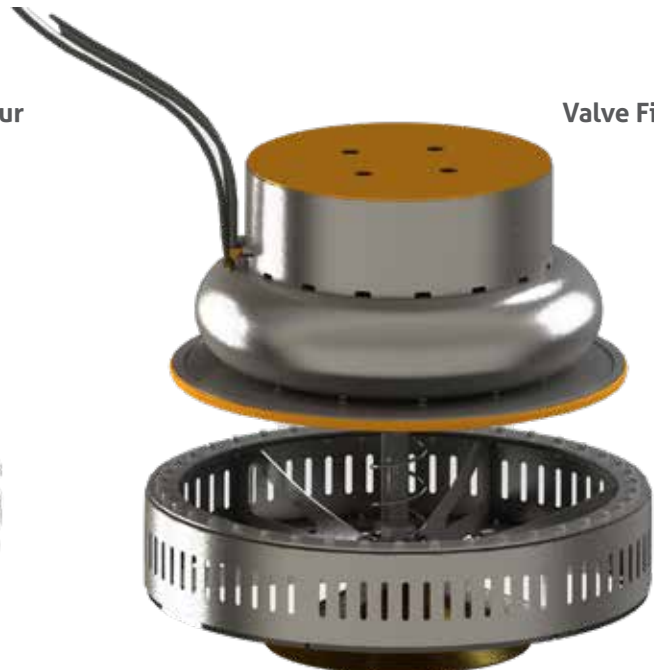
Valve Two



Valve Three



Valve Four



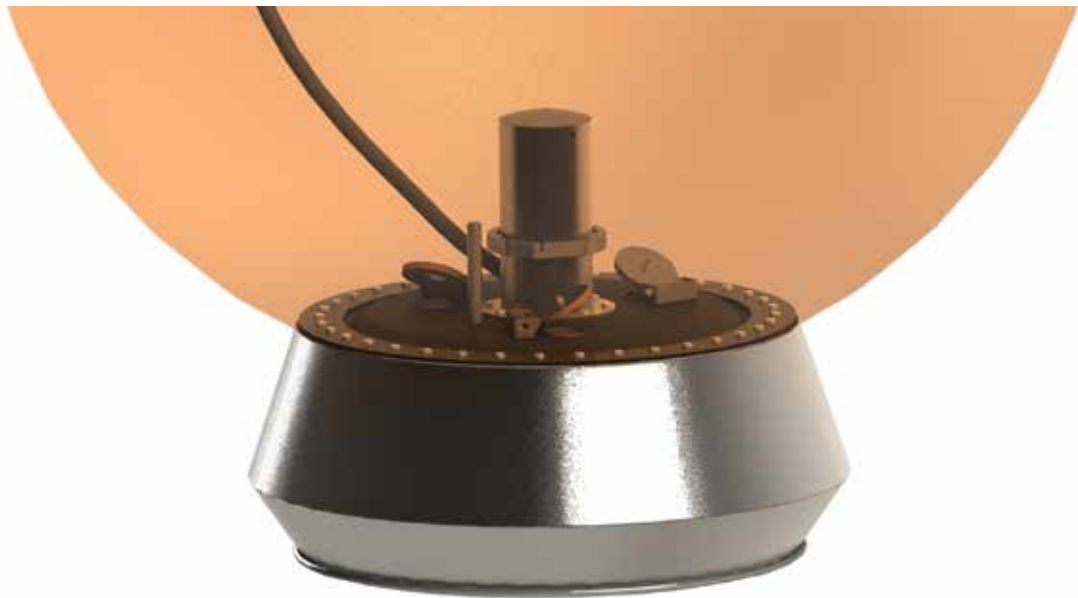
Valve Five

**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.

# Cyclone Valve

The **Cyclone Valve** is electrically actuated, providing a fast and reliable water release.

- Single drop
- Less than 1 amp current draw to open
- 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.

Cloudburst Fire Bucket Model	Valve Size	Volume Litres	Volume USG	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)	FIS Current amps DC	FIS Weight
CB130	Valve One	130	34	22 / 49	7.5 ~	-	-	-	-	-	3	2kg / 4.5lbs
CB200	Valve One	200	53	25 / 55	7.5 ~	-	-	-	-	-	3	2kg / 4.5lbs
CB280	Valve One	280	74	29 / 64	7.5 ~	-	-	-	-	-	3	2kg / 4.5lbs
CB420	Valve Two	420	111	40 / 88	7.5 ~	-	-	-	-	-	3	3kg / 6.6lbs
CB500	Valve Two	500	132	41 / 90	7.5 ~	-	-	-	-	-	3	3kg / 6.6lbs
CB640	Valve Two	640	168	46 / 101	7.5 ~	-	-	-	-	-	3	3kg / 6.6lbs
CB750	Valve Two	750	197	50 / 110	7.5 ~	-	-	-	-	-	3	3.5kg / 7.7lbs
CB880	Valve Three	880	232	60 / 132	15 #	50	1	25 (6.6)	-	-	3	4kg / 8.8lbs
CB1000	Valve Three	1000	263	63 / 139	15 #	50	1	25 (6.6)	-	-	3	4kg / 8.8lbs
CB1200	Valve Three	1200	316	67 / 148	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lbs
CB1400	Valve Three	1400	368	70 / 154	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lbs
CB1600	Valve Three	1600	421	75 / 165	15 #	50	1	25 (6.6)	-	-	6	5kg / 11lbs
CB1800	Valve Four	1800	474	115 / 254	25 0	100	2	50 (13.2)	50	100 (26)	6	6kg / 13lbs
CB2000	Valve Four	2000	526	118 / 260	25 0	100	2	50 (13.2)	50	100 (26)	6	6kg / 13lbs
CB2500	Valve Four	2500	658	134 / 295	25 0	100	2	50 (13.2)	50	100 (26)	9	8kg / 17.6lbs
CB3000	Valve Four	3000	789	146 / 322	25 0	100	2	51 (13.2)	50	100 (26)	9	8kg / 17.6lbs
CB3500	Valve Four	3500	921	152 / 335	25 0	100	2	52 (13.2)	50	100 (26)	9	10kg / 22lbs
CB4000	Valve Four	4000	1053	165 / 364	25 0	100	2	53 (13.2)	50	100 (26)	9	13kg / 28.6lbs
CB5000	Valve Four	5000	1316	171 / 377	25 0	100	2	54 (13.2)	50	100 (26)	9	13kg / 28.6lbs
CB7500	Valve Five	7500	1974	199 / 439	40 +	-	-	-	50	100 (26)	12	18kg / 39.6lbs
CB10000	Valve Five	10000	2632	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

The current required for a Cyclone Valve is less than 1 amp.

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

# Accessories

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



## Foam Injection

Attached to the side wall of the **Cloudburst Fire Bucket**, the **Foam Injection System** can deliver a timed volume of foam to the water within the bucket and is agitated during the water release by our unique pneumatic valve operation.



## Foam Controller

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



## Long Line

**Long Lines** are manufactured specifically for the bucket and its features, with all necessary service lines encased within the zipped PVC protective cover.





## Inline Compressors

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

## Level Limiters

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

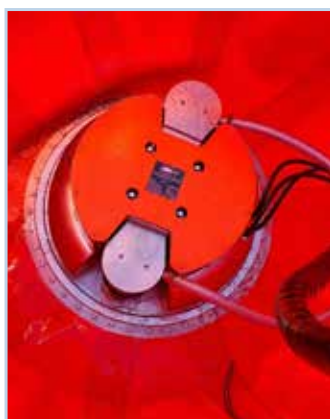
Simply remove the plug to allow the excess volume to be discharged from the bucket during the filling process.



Suitable for  
CB1800M - CB5000M



Suitable for  
CB130M - CB1600M



## 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, **Foam Injection** timing and **Shallow Fill Pump** control.

## Compressor Module

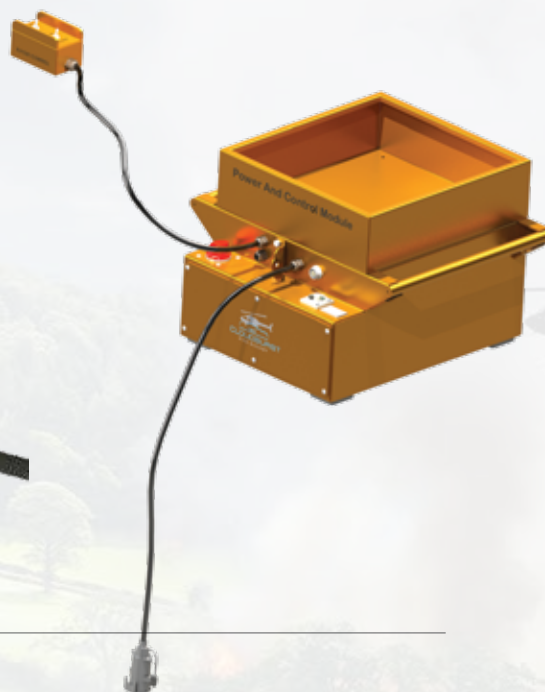
The **Compressor Module** supplies the **Monsoon Valve** with the compressed air supply to operate the multi drop valve. With an air receiver inside this module, coupled with a receiver built into the valve, there is always a large store of compressed air to operate the bucket systems. This module can also incorporate control if required. Discuss this with the supplier.





## 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.



## 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

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

	Litres	15,000L	18,000L	25,000L	40,000L
	Gallons	3,960G	4,755G	6,600G	10,565G
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 <sup>2</sup>
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## Standard Equipment

1 x Skin Fitting and Ball Valve

Ground Sheet

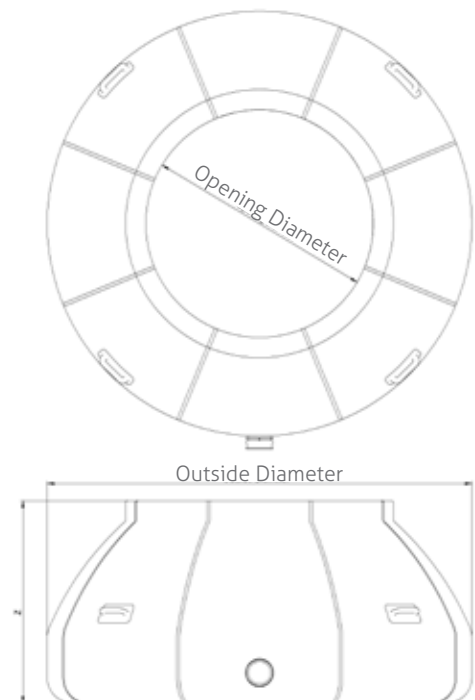
Carry Bag

## 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	Litres	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
<b>Carry Bag Size</b>									
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
<b>Shipping Crate Size</b>									
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
<i>Note: These dimensions and weights are guide lines only and may vary.</i>									



**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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