

# CLOUDBURST

RELIABLE. ACCURATE. FAST.



## **CLOUDBURST DELIVERS** **THE MODERN, RELIABLE APPROACH** **TO AERIAL FIRE SUPPRESSION**

Engineered for operational efficiency and reliable performance, drop after drop, the Cloudburst Fire Bucket combines rapid filling, fast valve operation, low maintenance requirements, and ease of use. A proven, future-ready investment, Cloudburst is trusted by military and civilian operators worldwide. Celebrating over 22 years of proven performance, it remains the world's leading helicopter firefighting solution.



**TOUGH, DURABLE  
CONSTRUCTION**



**FAST, CUSTOMIZED  
SUPPORT**



**MULTI-DROP  
CAPABILITY**



**FAST VALVE  
ACTUATION**



**VARIABLE SPREAD  
PATTERNS TO SUIT FIRE  
INTENSITY AND TYPE**



**OPTIONAL ADDITIVE  
INJECTION SYSTEM**



**CORROSION  
RESISTANT**



**COMPACT DESIGN  
FOR STORAGE  
AND HANDLING**



**VOLUME  
CONTROL**



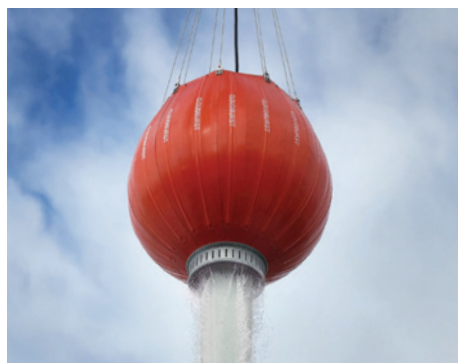
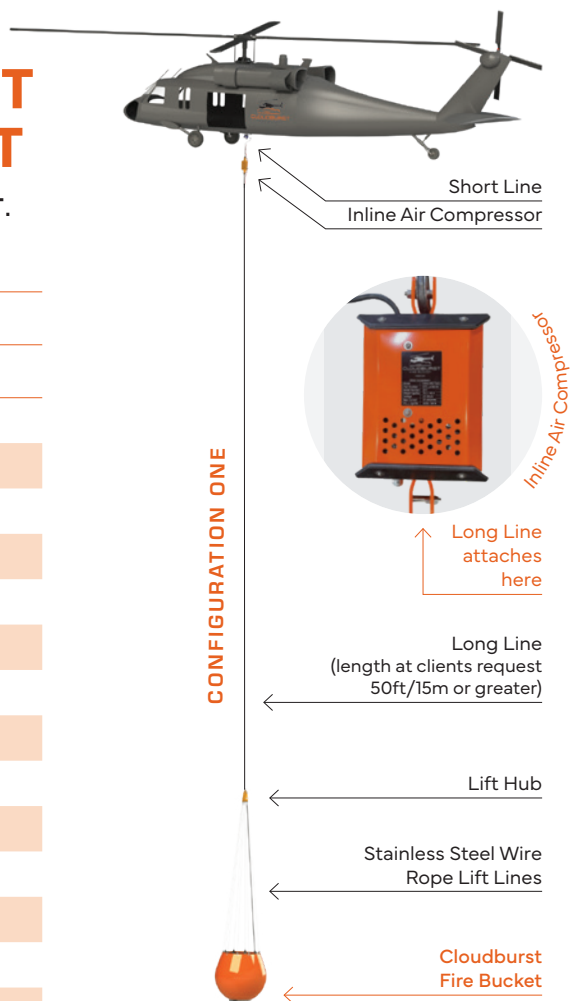
# CLOUDBURST FIRE BUCKET

RELIABLE. ACCURATE. FAST.

## CLOUDBURST CAPACITIES

LITRES	US GALLONS
130	34
200	53
280	74
420	111
500	132
640	169
750	198
880	232
1000	264
1200	317
1400	370
1600	423
1800	476
2000	528
2500	660
3000	793
3500	925
4000	1057
4500	1189
5000	1321
7500	1981
10000	2642

Other volumes available on request



CLOUDBURST IS DESIGNED TO BE STRONG, LIGHTWEIGHT, EFFECTIVE AND UTILIZED WORLDWIDE.

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 chosen for its strength, excellent UV stabilization, and strong resistance to the growth of algae and fungi.

## BUILT AROUND YOUR MISSION

Cloudburst Fire Buckets can be tailored to meet your specific operational needs.

Available options include:

- > Additive Injection capability
- > An auxiliary power source  
Useful when aircraft electrical power is not available
- > Shallow-Fill Pump
- > Hard or Soft Shell  
Hard Shell includes vertical battens

## ELECTRICAL POWER

Refer to the power requirements table on page 13 for details.

## LONG LINE

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

## COMPRESSOR MODULE

Configuration two utilizes a Compressor Module, located inside the aircraft that provides a compressed air supply to the Cloudburst Fire Bucket. The module features a corded remote control for crew operation.

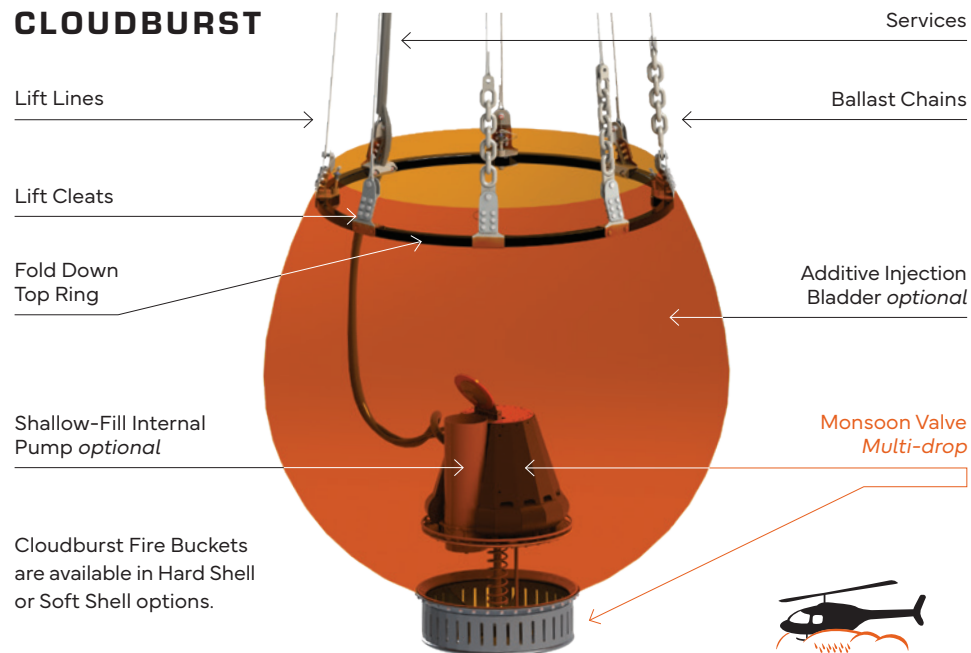
This can be paired with our Power Control Module, which provides an auxiliary power supply to operate the entire system.

Multiple combinations are available to meet the specific operational requirements of your Cloudburst Fire Bucket system.



Compressor Module

## CLOUDBURST

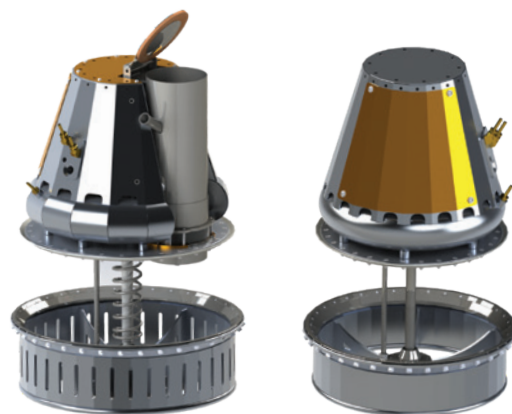


## MONSOON VALVE

THE MULTI-DROP MONSOON VALVE ALLOWS THE PILOT CONTROL OVER WATER VOLUME IN EACH LOAD FOR PRECISE DROPS AND TARGETED FIRE SUPPRESSION.

Electrically powered, the Monsoon Valve can be opened and closed multiple times per bucket load, providing fast, precise, and reliable water release.

Valve size relates to bucket volume, refer to the table on page 13.



### SWATH PLATE

All Monsoon Valves come with a Swath Plate that can be simply fitted to the underside of the Monsoon Valve.

Adding the Swath Plate offers versatility, dispersing the column into a wider pattern. An accessory for less dense fires and the need for a broader pattern drop.

### MONSOON VALVE

- > Shallow-Fill Internal Pump option
- > Multi-drop
- > Low maintenance
- > User friendly

### INITIAL ATTACK MONSOON VALVE

- > Fits in Cargo Basket
- > Multi-drop
- > Low maintenance
- > User friendly





## INTERNAL AND EXTERNAL PUMPS

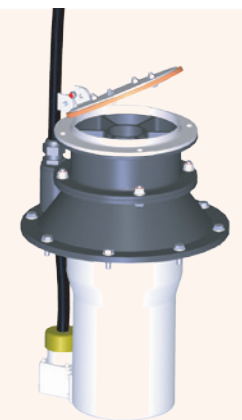
Monsoon Valve with Internal Pump DC (Single)



Monsoon Valve with Internal Pumps DC (Dual)



Internal AC Pump



Shallow-Fill External Pump DC

## DC PUMPS

DC pumps are available in both internal and external configurations to suit your mission requirements.

### SHALLOW-FILL EXTERNAL PUMP DC

Developed to be both effective and easy to use, the 28VDC, 50 amp Shallow-Fill External 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 litres (6.6 gal) per second per pump and a minimum filling depth required of 0.2 meters (8 inches) the Shallow-Fill External Pump is a vital tool when available water sources are limited.

## AC PUMPS

AC pumps are available in both internal and external configurations to suit your mission requirements.

The Shallow-Fill Pump, is a 3 phase 115(208)VAC, 50 amp, 400HZ, 10hp pump delivering a flow rate of 100 litres (26 gal) per second.



External AC Pump

## ADDITIVE INJECTION

### ADDITIVE INJECTION OPTIONS

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 CONTROLLER

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

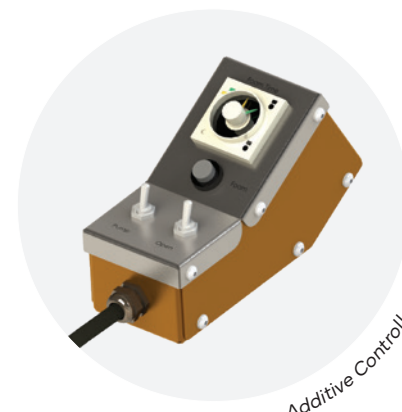
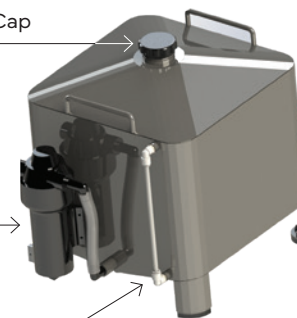


Additive Bladder

Additive Filler Cap

Additive Pump

Level Indicator



Additive Controller

## LEVEL LIMITERS

### WATER VOLUME CONTROL

Level Limiters can be installed to restrict the volume of water carried in the Cloudburst Fire Bucket.

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



## ACCESSORIES

### CARRY/STOWAGE BAG

Compact and tidy, all Cloudburst Fire Buckets up to and including the CB5000 come complete with a Carry Bag.



### LONG LINES

Long Lines are manufactured specifically to our clients' requirements with all services 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 Cloudburst Fire Bucket.



### MODEL

	IL250-12-1	IL250-24-1	IL450-24-1	IL450-24-2	IL450-24-3
<b>Voltage DC</b>	12	24	24	24	24
<b>Air Flow at 0 psi feet<sup>3</sup>/min</b>	1	1	2.2	4.4	6.6
<b>Max Current Draw Amps</b>	6	6	13	26	39
<b>Weight kg</b>	9	9	11	18	30
<b>Weight lb</b>	20	20	24	40	66

## MODULES



Compressor Module



Power and Control Module

### COMPRESSOR MODULE

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

MODEL	CM250-12-1	CM250-24-1	CM450-24-1	CM450-24-2	CM450-24-3
<b>Voltage DC</b>	12	24	24	24	24
<b>Air Flow at 0 psi feet<sup>3</sup>/min</b>	1	1	2.2	4.4	6.6
<b>Max Current Draw Amps</b>	6	6	13	26	39
<b>Weight kg</b>	9.6	9.6	13	18	26
<b>Weight lb</b>	21	21	29	40	57

### POWER AND CONTROL MODULE

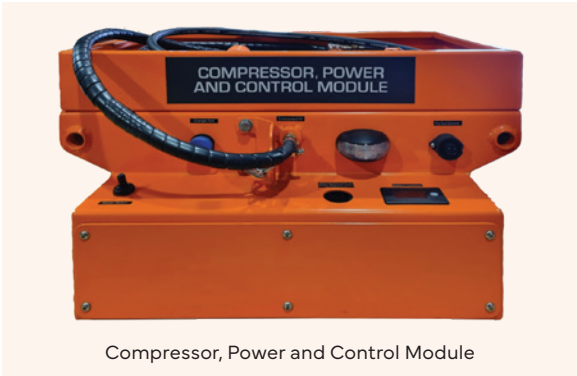
This module has been designed to provide an auxiliary power supply and control to operate the Cloudburst Fire Bucket and associated accessories without the need to draw electrical power from the aircraft's electrical system.

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

MODULES

COMPRESSOR, POWER AND CONTROL MODULE

This module is similar to the Power and Control Module, but also incorporates an air compressor.



Compressor, Power and Control Module

MODEL	CPCM-250-24-22-2	CPCM-250-24-3-6	CPCM-450-24-4-80	CPCM-450-24-2-80	CPCM-450-24-120	CPCM-450-24-2-120	CPCM-450-24-165	CPCM-450-24-2-165	CPCM-450-24-2-200	CPCM-450-24-2-200
Voltage DC	24	24	24	24	24	24	24	24	24	24
Ah	22	36	80	80	120	120	165	165	270	270
Weight kg	40	51	71	80	86	94	126	134	182	192
Weight lb	88	112	157	176	190	207	278	295	401	423

IMS FIRE LIGHTER

SAFE, CONTROLLED BURN-OFF'S

Manufactured from corrosion resistant stainless steel the IMS Fire Lighter withstands harsh environments and products.

The user-friendly design includes a 150mm (6-inch) filler cap and a manual product agitator. A variable speed controller, accessible during operation, controls the flow rate of the product, and the pump and igniter turn on and off simultaneously when switched at the pilot controls.



SPECIFICATIONS

KEY # Excludes battens and any ballast, \* Liters per second (USG), USG US Gallons, SFP Shallow-Fill Pump, AIS Additive Injection System

MODEL	Litres	USG	Weight: Bucket lb #	Weight: Bucket kg #	Current 28vdc	Weight: Air Compressor	SFP current 28vdc	Qty DC SFP	SFP current 208vac	SFP Flow 208vac litres (gal)*	AIS amps 28vdc	AIS Weight
CB130	130	34	60	27	7.5	9kg / 20lb					3	2kg / 4.5lb
CB200	200	53	61	28	7.5	9kg / 20lb					3	2kg / 4.5lb
CB280	280	74	64	29	7.5	9kg / 20lb					3	2kg / 4.5lb
CB420	420	111	84	38	7.5	9kg / 20lb	35	1			3	3kg / 6.6lb
CB500	500	132	86	39	7.5	9kg / 20lb	35	1			3	3kg / 6.6lb
CB640	640	169	95	43	7.5	9kg / 20lb	35	1			3	3kg / 6.6lb
CB750	750	198	108	49	7.5	9kg / 20lb	35	1			3	3kg / 6.6lb
CB880	880	232	121	55	15	11kg / 24lb	50	1			3	4kg / 8.8lb
CB1000	1000	264	128	58	15	11kg / 24lb	50	1			3	4kg / 8.8lb
CB1200	1200	317	148	67	15	11kg / 24lb	50	1			6	5kg / 11lb
CB1400	1400	370	168	76	15	11kg / 24lb	50	1			6	5kg / 11lb
CB1600	1600	423	176	80	15	11kg / 24lb	50	1			6	5kg / 11lb
CB1800	1800	476	185	84	15	11kg / 24lb	100	2	50	100 (26)	6	6kg / 13lb
CB2000	2000	528	229	104	15	11kg / 24lb	100	2	50	100 (26)	6	6kg / 13lb
CB2500	2500	660	305	139	25	18kg / 40lb	100	2	50	100 (26)	9	8kg / 17.6lb
CB3000	3000	793	324	147	25	18kg / 40lb	100	2	50	100 (26)	9	8kg / 17.6lb
CB3500	3500	925	348	158	25	18kg / 40lb	100	2	50	100 (26)	9	10kg / 22lb
CB4000	4000	1057	372	169	25	18kg / 40lb	100	2	50	100 (26)	9	13kg / 28.6lb
CB4500	4500	1189	379	172	25	18kg / 40lb	100	2	50	100 (26)	9	13kg / 28.6lb
CB5000	5000	1321	473	215	25	18kg / 40lb	100	2	50	100 (26)	9	13kg / 28.6lb
CB7500	7500	1981	638	290	40	38kg / 83lb			50	100 (26)	12	18kg / 39.6lb
CB10000	10000	2642	691	314	40	38kg / 83lb			50	100 (26)	12	18kg / 39.6lb



## IMS LIFTING EQUIPMENT

### REMOTE AND MANUAL HOOKS

We offer a range of remote hooks, each supplied with an extended cage and wiring loom compatible with our swivels. Full support is provided for airworthiness inspections, overhauls, and ongoing maintenance.

A variety of manual hook combinations are also available to suit specific operational requirements. Please contact us to discuss the best solution for your needs.

### SWIVELS

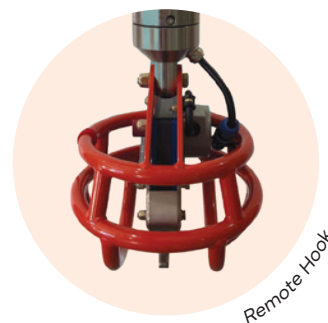
We produce a range of high-quality swivels suitable for any type of helicopter, with an emphasis on reliability and smooth operation. Electrical services are available on Swivels, and can be configured to suit any Long Line / accessory configuration.

### LONG LINES

IMS Long Lines come in standard lengths of 50ft (15m), 100ft (30m), 150ft (45m), 200ft (60m), or customized to meet specific operational requirements.

Constructed from low-stretch Dynice Dux SK75 rope with smooth polyurethane impregnation, these lines offer excellent abrasion resistance and a high strength-to-weight ratio.

The protective sheaths are made from durable, waterproof PVC with UV-resistant stitching, and are designed to accommodate electrical cables and pneumatic / hydraulic hoses as needed.



Remote Hook



Manual Hook



Swivel 30 amp 3 wire 1,500 - 5,500 kgs



Swivel 20 amp 3 wire 1,500 kgs



IMS Long Line

### CARGO NETS

IMS Cargo Nets are manufactured to meet your specific operational requirements. They are compact, easily rolled into the included carry bag, and come complete with certification.







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