

CLOUDBURST

AERIAL FIRE SUPPRESSION EQUIPMENT



**DRIVING INNOVATION.
DELIVERING RESULTS.**

**20 YEARS OF PROVEN
PARTNERSHIP WITH AERIAL
FIRE-FIGHTERS WORLDWIDE**



CLOUDBURST
FIRE BUCKET

A PRODUCT BY

IMS
NEW ZEALAND LTD
HELICOPTER EQUIPMENT SPECIALISTS



CLOUDBURST FIRE BUCKET

CONSIDERATIONS WHEN SELECTING YOUR CLOUDBURST

Do you require the following?

- Additive Injection capability
- 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 20 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.*



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THE **CLOUDBURST FIRE BUCKET** IS DESIGNED TO BE STRONG, LIGHTWEIGHT, EFFECTIVE AND IS 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

Configuration 1

Short Line

In-line Air Compressor

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

Lift Hub

Stainless Steel Wire
Rope Lift Lines

Cloudburst Fire Bucket

Long Line
attaches here

Configuration 2

Compressor Module



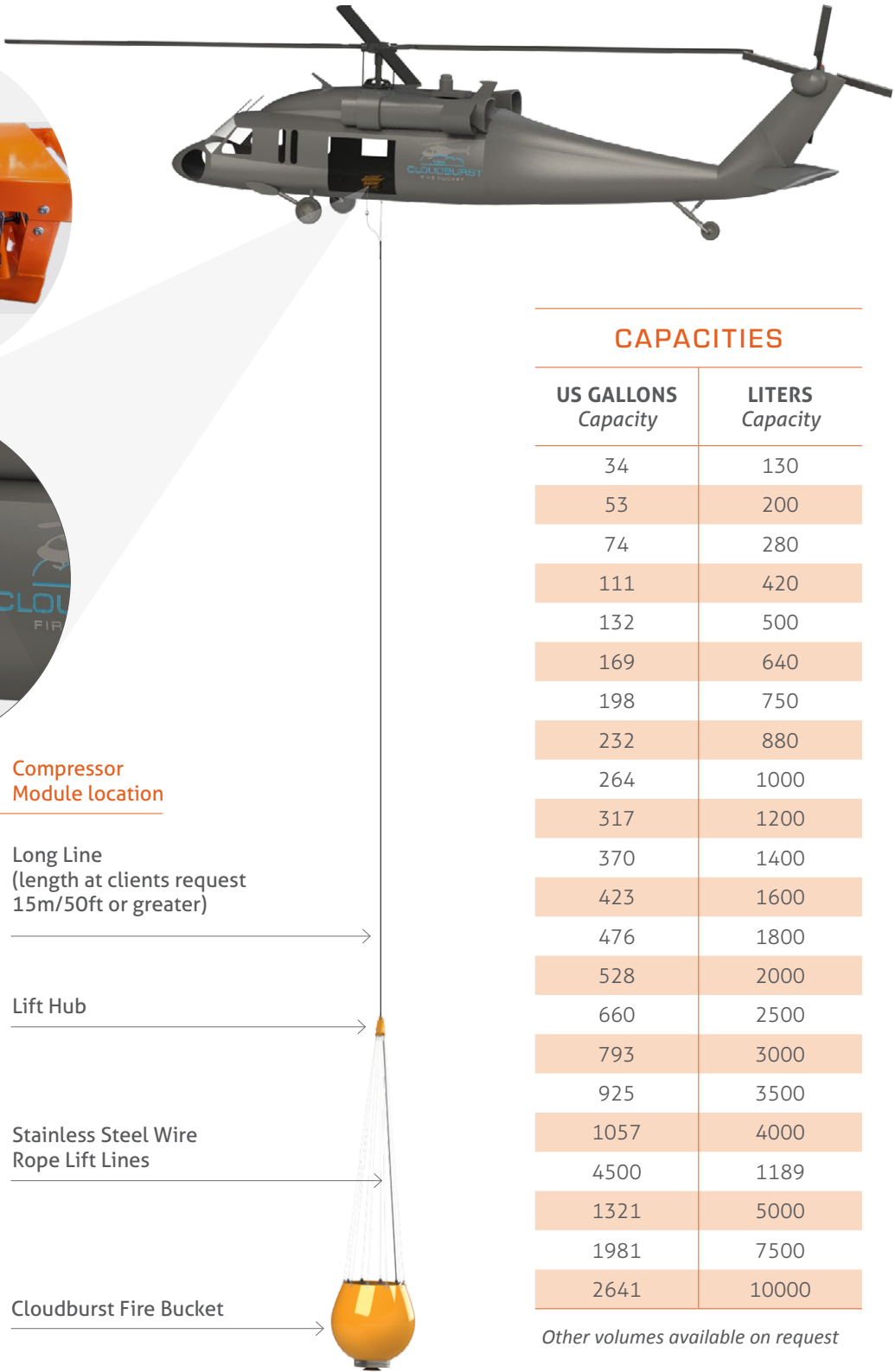
Compressor Module location

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

Lift Hub

Stainless Steel Wire
Rope Lift Lines

Cloudburst Fire Bucket



CAPACITIES

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660	2500
793	3000
925	3500
1057	4000
4500	1189
1321	5000
1981	7500
2641	10000

Other volumes available on request

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.

CLOUDBURST FEATURES

The Cloudburst Fire Bucket is the wise investment for military and civilian operations worldwide, with modern features, reliability, and proven 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 chosen for its strength, excellent UV stabilization, and strong resistance to the growth of algae and fungi.

THE **MODERN AND RELIABLE**
APPROACH TO AERIAL FIRE
SUPPRESSION.



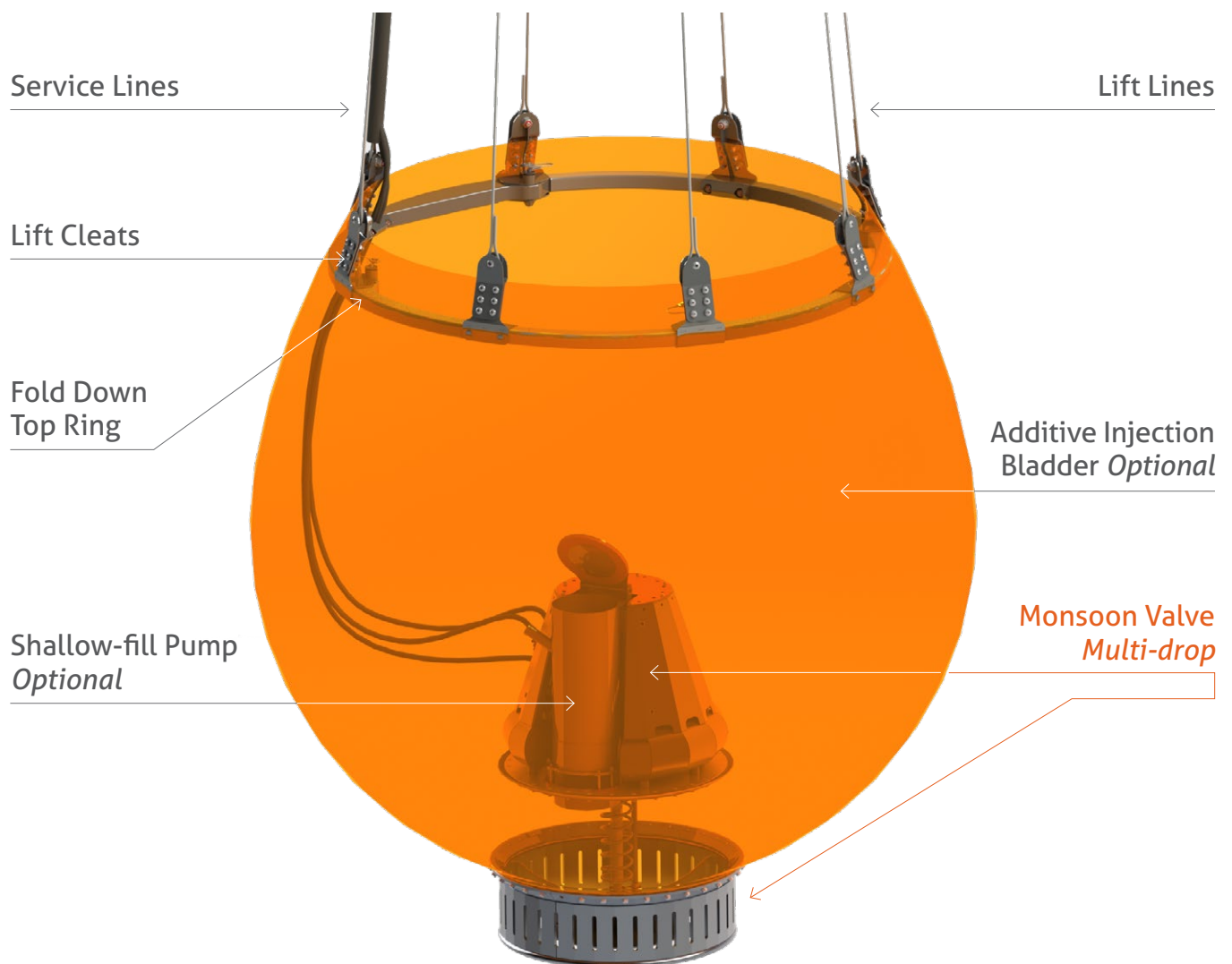
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AERIAL FIRE BUCKET CLouDBURST WITH MONSOON VALVE

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 20.

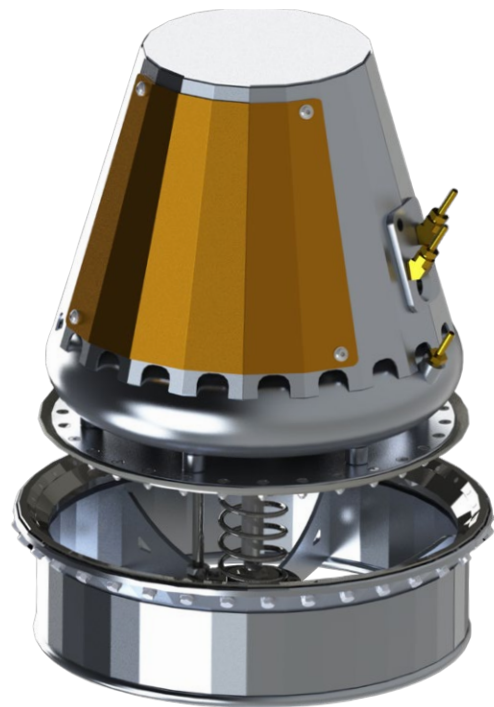
MONSOON VALVE

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



MONSOON VALVE BENEFITS

- Shallow-fill Pump option
- Multi-drop
- Low maintenance
- User friendly



INITIAL ATTACK MONSOON VALVE BENEFITS

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

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.



FAST AND ACCURATE

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 reliable, long-term investment.



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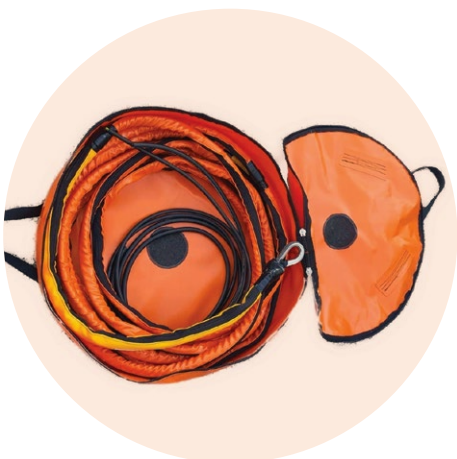


ACCESSORIES LONG LINES

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.





ACCESSORIES

ADDITIVE INJECTION

+ 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.

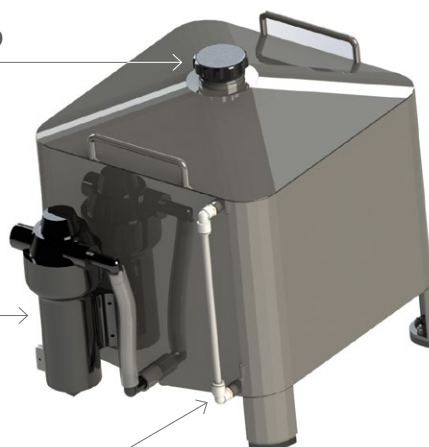
Either **Additive Injection System** can deliver a timed volume of chemical into the bucket of water. Agitation will occur during the water release.



Additive Filler Cap

Additive Pump

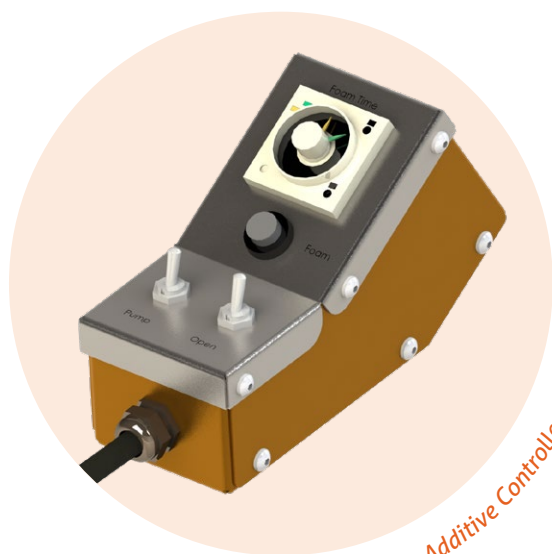
Level Indicator



+ ADDITIVE CONTROLLER

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

AS A FAMILY COMPANY, MANAGED
BY OUR FOUNDER, WE ASSIST
OUR CLIENTS DIRECTLY. INSURING
SPEED AND CUSTOMISED SERVICE.



Additive Controller

+ 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.

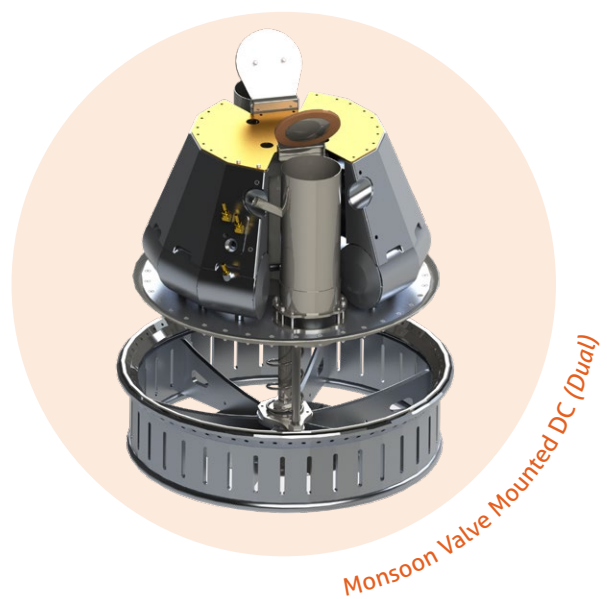
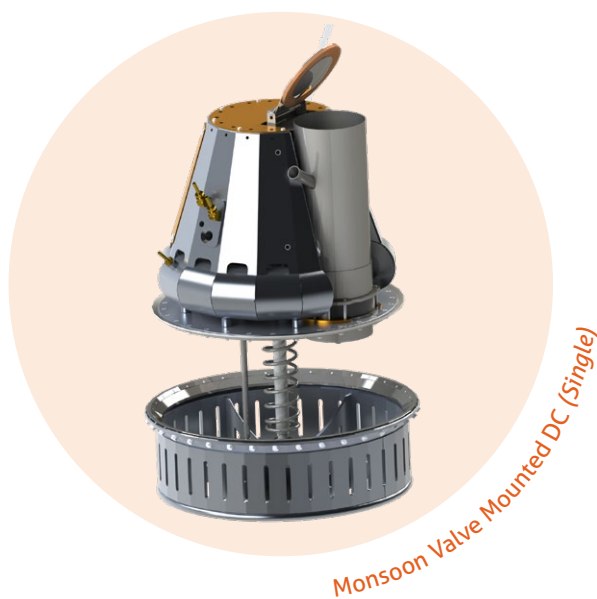


PUMPS

+ 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.



SHALLOW-FILL PUMP AC

+ 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 a **Monsoon Valve** fitted.



SHELL MOUNTED AC PUMP



INLINE COMPRESSORS

+ 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
CB1600 - CB5000



Suitable for
CB130 - CB1400

Model	Voltage DC	Air Flow at 0 psi feet ³ /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 MODULES

+ COMPRESSOR MODULE

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



Model	Voltage DC	Air Flow at 0 psi feet ³ /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

MODULES

+ 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	Weight kg / lb
CPCM-250-24-22	24	22	40 / 88
CPCM-250-24-36	24	36	51 / 112
CPCM-450-24-80	24	80	71 / 157
CPCM-450-24-2-80	24	80	80 / 176
CPCM-450-24-120	24	120	86 / 190
CPCM-450-24-2-120	24	120	94 / 207
CPCM-450-24-165	24	165	126 / 278
CPCM-450-24-2-165	24	165	134 / 295
CPCM-450-24-270	24	270	182 / 401
CPCM-450-24-2-270	24	270	192 / 423

ACCESSORIES

SPECIFICATIONS

Model	Liters	USG	Bucket Weight kg/lb #	Current 28vdc	Air Compressor weight	SFP current 28vdc	Qty DC SFP	SFP current 208vac	SFP Flow 208vac L/sec (Gal/sec)	AIS amps 28vdc	AIS Weight
CB130	130	34	22 / 49	7.5	9kg / 20lb					3	2kg / 4.5lb
CB200	200	53	25 / 55	7.5	9kg / 20lb					3	2kg / 4.5lb
CB280	280	74	29 / 64	7.5	9kg / 20lb					3	2kg / 4.5lb
CB420	420	111	38 / 84	7.5	9kg / 20lb					3	3kg / 6.6lb
CB500	500	132	39 / 86	7.5	9kg / 20lb					3	3kg / 6.6lb
CB640	640	168	41 / 90	7.5	9kg / 20lb					3	3kg / 6.6lb
CB750	750	197	42 / 92	7.5	9kg / 20lb					3	3kg / 6.6lb
CB880	880	232	46 / 101	15	11kg / 24lb	50	1			3	4kg / 8.8lb
CB1000	1000	263	47 / 103	15	11kg / 24lb	50	1			3	4kg / 8.8lb
CB1200	1200	316	64 / 141	15	11kg / 24lb	50	1			6	5kg / 11lb
CB1400	1400	368	69 / 152	15	11kg / 24lb	50	1			6	5kg / 11lb
CB1600	1600	421	71 / 156	15	11kg / 24lb	50	1			6	5kg / 11lb
CB1800	1800	474	72 / 158	15	11kg / 24lb	100	2	50	100 (26)	6	6kg / 13/b
CB2000	2000	526	74 / 163	15	11kg / 24lb	100	2	50	100 (26)	6	6kg / 13/b
CB2500	2500	658	110 / 243	25	18kg / 40lb	100	2	50	100 (26)	9	8kg / 17.6/b
CB3000	3000	789	120 / 265	25	18kg / 40lb	100	2	50	100 (26)	9	8kg / 17.6/b
CB3500	3500	921	125 / 276	25	18kg / 40lb	100	2	50	100 (26)	9	10kg / 22lb
CB4000	4000	1053	165 / 364	25	18kg / 40lb	100	2	50	100 (26)	9	13kg / 28.6lb
CB4500	4500	1184	168 / 370	25	18kg / 40lb	100	2	50	100 (26)	9	13kg / 28.6lb
CB5000	5000	1316	171 / 377	25	18kg / 40lb	100	2	50	100 (26)	9	13kg / 28.6lb
CB7500	7500	1974	199 / 439	40	38kg / 83lb			50	100 (26)	12	18kg / 39.6lb
CB10000	10000	2632	214 / 472	40	38kg / 83lb			50	100 (26)	12	18kg / 39.6lb

Comp	Air Compressor
SFP	Shallow-fill Pump
AIS	Additive Injection System
#	Excludes any ballast



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