



ABN:39 865 951 145

Advanced Material Technologies

Providing Solutions, Delivering Results!

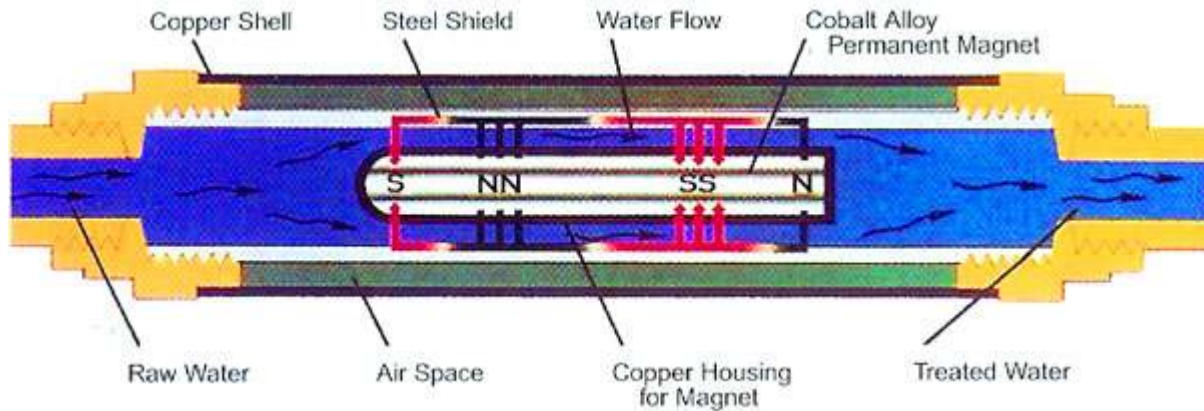
ACN:154 533 794

PRODUCT DATA AND DESIGN

Superior Water Conditioner | Magnetic Treatment of Water

“Efficiency of Physical Water Treatment in Controlling Calcium Scale Accumulation in Re-circulating Open Cooling Tower Water System”

DESIGN OF THE SUPERIOR WATER CONDITIONER®



SCALE & CORROSION

Water is the most frequently used media to transfer thermal energy for useful purposes. When water temperature changes, minerals precipitate and form a hard, brittle scale that collects in piping and on heat transfer surfaces. This insulating scale build-up reduces efficiency of equipment, increases fuel requirements and increases maintenance and costs.

When water passes through the alternating magnetic fields, it allows the minerals to form in a suspended state; therefore eliminating the formation of hard, brittle scale. Maintaining scale-free surfaces assures optimization of your equipment. Superior magnetic water conditioners control the formation of scale and corrosion deposits without the use of hazardous and costly chemicals. Because no chemicals are used, discharged water is pollution-free and is not harmful to the environment. Superior water treatment systems solve lime scale build-up problems, resulting in energy and water conservation and pollution prevention.

28 Charlton Street Mt. Warrigal NSW. 2528. Australia. E-mail: john.pulbrook@bigpond.com

Phone: 0242 956915

Mobile: 0450 695691

Skype: johnpulbrook1

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SUPERIOR WATER CONDITIONERS®

SAVING YOU TIME • MONEY • ENERGY • WATER



Environmentalist / Zero Bleed®
For 1,201 - 2,000 Ton
Cooling Towers & Chillers



Environmentalist®
For 5,000 - 8,000 Ton
Cooling Towers and Chillers



SF models
Boilers / Heat Exchangers, etc.
Water Heaters



AI models
Irrigation Systems
Golf Courses, etc.



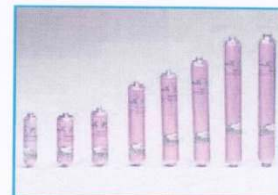
ACV models
Recirculation Systems for
Cooling Towers up to 100 Ton



RT models
Food Service
Dishwashers, Steamers, etc.



Perm-a-Core™
For SF and ACV models
Ranging from 500 - 50,000 gpm



C models
Food Service
Ice Machines, Coffee Makers, etc.

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SPECIFICATIONS

Each unit shall be designed with a core of special alloy so that water will flow around the magnetic core and perpendicular to the magnetic fields. Each unit shall utilize single bar, multi-field, multi-pole magnets either singly or in factory assembled bar-bundles. Units to be designed to allow disassembly for maintenance and inspection procedures.

Pressure up to 180 psi, temperature up to 475° F, hardness range of 1-132 grains per gallon(1-2250 ppm).

Standard units in stock and ready for immediate delivery!

	Model No.	Capacity	Inlet-Outlet Connections	A Diameter	B Length	Weight
	C-1	1 GPH	1/4" Compression	1"	4 7/8"	.75 lb.
	C-5	3 GPH	1/4" Compression	1 1/4"	4 7/8"	1 lb.
	C-10	6 GPH	1/4" Compression	1 1/2"	5 3/8"	1.1 lb.
	C-25	15 GPH	1/4" Compression	1 3/4"	7 5/8"	1.5 lb.
	C-50	30 GPH	1/4" Compression	1 1/4"	8 5/8"	1.7 lb.
	C-75	45 GPH	3/8" Compression	1 1/4"	9 5/8"	2 lb.
	C-100	1 GPM	3/8" Compression	1 1/4"	11 5/8"	2.2 lb.
	C-200	2 GPM	1/2" Compression	1 1/4"	11 7/8"	2.5 lb.
	RT-500-K	4 GPM	1/2" N.P.T./B.S.P.T.	1 1/2"	12 5/8"	4 lb.
	RT-750-K	8 GPM	3/4" N.P.T./B.S.P.T.	1 3/4"	13"	5 lb.
	RT-1000-K	15 GPM	1" N.P.T./B.S.P.T.	2 1/4"	13 1/2"	7 lb.
	SF-1250-AK	30 GPM	1 1/4" Flange	6"	19 3/8"	27 lb.
	SF-1500-AK	50 GPM	1 1/2" Flange	7 1/2"	23 3/4"	51 lb.
	SF-2000-AK	75 GPM	2" Flange	8 1/2"	28"	68 lb.
	SF-2500-AK	110 GPM	2 1/2" Flange	9"	31"	82 lb.
	SF-3000-AK	175 GPM	3" Flange	10"	35 5/8"	117 lb.
	SF-4000-AK	250 GPM	4" Flange	11"	39 3/4"	170 lb.
	SF-5000-AK	350 GPM	5" Flange	13 1/2"	37 5/8"	308 lb.
	SF-6000-AK	500 GPM	6" Flange	16"	40"	485 lb.
	SF-8000-AK	700 GPM	8" Flange	19"	42"	703 lb.
	SF-10000-AK	850 GPM	10" Flange	21"	52"	868 lb.
	SF-12000-AK	1100 GPM	12" Flange	23 1/2"	54"	1190 lb.
	SF-14000-AK	1400 GPM	14" Flange	25"	56"	1478 lb.
	SF-16000-AK	1800 GPM	16" Flange	27 1/2"	66"	1830 lb.
	SF-18000-AK	2600 GPM	18" Flange	32"	66"	2600 lb.
	SF-20000-AK	3100 GPM	20" Flange	34 1/4"	74"	2953 lb.
	SF-24000-AK	4000 GPM	24" Flange	38 3/4"	74"	4050 lb.
	ACV-2-K	80 GPM	2" Victaulic	5 3/4"	14 1/4"	24 lb.
	ACV-2.5-K	120 GPM	2 1/2" Victaulic	6"	16 1/4"	29 lb.
	ACV-3-K	180 GPM	3" Victaulic	7"	18"	44 lb.
	ACV-4-K	300 GPM	4" Victaulic	8 1/2"	22 1/8"	72 lb.
	ACV-5-K	500 GPM	5" Flange	13 1/2"	37 5/8"	268 lb.
	ACV-6-K	650 GPM	6" Flange	16"	40"	409 lb.
	ACV-8-K	900 GPM	8" Flange	19"	42"	598 lb.
	ACV-10-K	1200 GPM	10" Flange	21"	52"	744 lb.
	ACV-12-K	2000 GPM	12" Flange	23 1/2"	54"	1021 lb.
	ACV-14-K	3000 GPM	14" Flange	25"	56"	1246 lb.
	ACV-16-K	3800 GPM	16" Flange	27 1/2"	66"	1581 lb.
	ACV-18-K	5000 GPM	18" Flange	32"	66"	2163 lb.
	ACV-20-K	6400 GPM	20" Flange	34 1/4"	74"	2497 lb.
	ACV-24-K	8000 GPM	24" Flange	38 3/4"	74"	3303 lb.
Conserve water and meet all EPA and DNR wetland restrictions.	Cooling Tower Capacity / Tons		Environmentalist® Model	Zero Bleed® Model		
	5 - 50		CT- 50 APD	CT- 50 ZB		
51 - 100		CT- 100 APD	CT- 100 ZB			
101 - 200		CT- 200 APD	CT- 200 ZB			
201 - 400		CT- 400 APD	CT- 400 ZB			
401 - 800		CT- 800 APD	CT- 800 ZB			
801 - 1200		CT- 1200 APD	CT- 1200 ZB			
1201 - 2000		CT-2000 APD	CT-2000 ZB			

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