



TURBU-FLOW

ANTI SCALE SYSTEM

The Water Conditioner That Works!

HOW TURBU-FLOW WORKS



BEFORE

Turbu-Flow is comprised of a specially engineered and founded alloy element. The alloy is made of a number of metals selected from two groupings (cathode and anode) of opposite electro negativity. The alloy element is designed with a number of discs and apertures.



AFTER

The flow of the water through the discs and apertures is such that the unit maximises turbulent flow over the surface of the element. When ion-laden water comes in contact with the Turbu-Flow element, the alloy core provides an immediate galvanic "site" upon which the ions can deposit. The ion particles

are attracted and repelled to possibly several hundred "sites" along the length of the alloy element causing them to become neutralised. Not all ion particles may come into physical contact with the alloy element, however since electrons are being captured from the water onto the core and dispersed from the core back into the water there is a very definite cathode/anode reaction occurring.

Due to the critical configuration of the water velocity over the discs, turbulence is created and the ions are washed off in a harmless colloidal suspension as neutral particles.

Turbu-Flow has been proven to;

- Stop calcium carbonate scaling.
- Dissolve any existing calcium carbonate scaling over time.
- Retard the corrosive action of iron sulphide and iron oxide.
- Stop the deposition of free sulphur and in most cases bring it back into solution.
- Retard the corrosive action of hydrogen sulphide.
- Stop the deposition of salt and in all cases bring it back into solution.
- Inhibit the formation of algae.
- Inhibit the growth of bio-film.
- Reduce iron staining.
- Reduce the surface tension of water.
- Works effectively in either hot or cold water.

Installing a Turbu-Flow will result in reduced maintenance costs, allow equipment to work more efficiently and protect your investment in capital equipment. Turbu-Flow does not require earthing and is absolutely chemical free!

TYPICAL APPLICATIONS

- Air conditioners
- Boilers
- Bores (wells, ground water)
- Car washers
- Cooling towers
- Caravan parks
- Farms
- Filtration systems
- Fish ponds
- Houses
- Hot water systems
- Hot water ring mains
- Hospitals
- Ice machines
- Irrigation systems
- Mining industry
- Ornamental lakes
- Poultry farms
- Piggeries
- Swimming pools (Domestic and Commercial)
- Steam generators
- Town/Municipality/City watersystems
- Vineyards
- Waste water treatment plants
- ... any water carrying system!



HOT WATER SYSTEMS



SWIMMING POOLS



COOLING TOWERS



BOILERS

www.turbu-flow.com.au

There is a Turbu-Flow model to suit your requirements.....

SPECIFICATIONS

Model	Average Flow Rate @ 75 PSI			Thread		Header	Length		Weight	
	Litres/min	IMPG/min	USG/min	mm	Inches		mm	Inches	Kg's	lb's
1218D	18	4.0	4.8	15	1/2"	PVC - BSP	210	8.27	0.5	1.1
1218	18	4.0	4.8	15	1/2"	Brass-BSP	165	6.50	0.6	1.32
2034	34	7.5	9.0	20	3/4"	Brass-BSP	225	8.86	0.78	1.72
2556	56	12.3	14.8	25	1"	Brass-BSP	280	11.02	1.1	2.43
3290	90	19.8	23.8	32	1 1/4"	Brass-BSP	395	15.55	2.6	5.72
40122	122	26.8	32.2	40	1 1/2"	Brass-BSP	395	15.55	2.3	5.06
50220	220	48.4	58.1	50	2"	Brass-BSP	485	19.09	2.85	6.27
65335	335	73.7	88.5	65	2 1/2"	Table "E" Flange	428	16.85	11	24.25
75500	500	110.0	132.1	75	3"	Table "E" Flange	480	18.90	13	28.66
100900	900	198.0	237.8	100	4"	Table "E" Flange	502	19.76	20	44.09
1251600	1600	352.0	422.7	125	5"	Table "E" Flange	554	21.81	28	61.73
1502840	2840	624.7	750.2	150	6"	Table "E" Flange	578	22.76	49	108.03
2004000	4000	879.9	1056.7	200	8"	Table "E" Flange	604	23.78	68	149.91
2505400	5400	1187.8	1426.5	250	10"	Table "E" Flange	706	27.80	106	233.69
TUF Portable	500	110.0	132.1	40	1 1/2"	Cam Locks	670	26.38	12	26.46
TUF Sub	300	66.0	79.3	Fits 100mm	PVC Shroud	PVC Fitting	240	9.45	4.9	10.80
TUFPool	Domestic Swimming Pools			40	1 1/2"	PVC - BSP	410	16.14	1.61	3.54

SELECTION MADE EASY...

1. Determine the average flow rate of the supply line to be protected.
2. Use the specifications chart above to select the model Turbu-Flow to match your average flow rate.
3. In borderline cases it is better to select a size larger Turbu-Flow model for maximum performance.

FOR EXAMPLE

If the average flow rate of the supply line to a cooling tower is 110litres/min, then this flow rate falls between a Model 3290 and Model 40122 on the chart above. The correct size Turbu-Flow to select would be a Model 40122 with an average flow rate of 122litres/min.

INSTALLATION IS EASY!



STEP 1

Decide where to install the Turbu-Flow.



STEP 4

The correct length of pipe has been removed.



STEP 2

Locate the position in your system for the Turbu-Flow, and measure the length of pipe to be removed.



STEP 5

Install the Turbu-Flow as per the manufacturers installation instructions.



STEP 3

Remove the corresponding length of pipe.



STEP 6

Installation is completesimple!



Turbu-Flow requires no ongoing maintenance and does not require earthing!

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