

## SPECIFICATION SHEET

### MEMCOR<sup>®</sup> Modules

Memcor Australia Pty Limited  
15 Blackman Crescent, Windsor, 2756 Australia  
Telephone: +61 2 4577 6800  
Facsimile: +61 2 4577 0078  
Document MAS00tps02\_07 Module  
Specifications.doc  
Issue 7  
Issue Date 9 January 2007



MEMCOR<sup>®</sup> Pressurised and Submerged membrane modules are used for a wide range of applications. The details and application information for each module type are shown in the following pages.

Performance values presented in the attached pages are typical only and do not represent a performance guarantee. Performance guarantees for any project only apply when confirmed in writing by Memcor Australia Pty Ltd with specific reference to the project in question

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## MEMCOR<sup>®</sup> Pressurised Membranes

### Module Parameters

Module Model	L10V	L10U	L20V
Membrane Material	PVDF	PVDF	PVDF
Backwash Type	Air Scour Liquid B/W	Air Scour Liquid B/W	Air Scour Liquid B/W
Nominal Pore Size ( µm)	0.04	0.04	0.04
Surface Area (m <sup>2</sup> )	23.4	18.7	38.1
Maximum Temp (°C)	45	45	45
pH Range	2-10	2 -10	2 -10
Average Free Chlorine (ppm)	< 5	< 5	< 5
Maximum Free Chlorine (ppm)	1000	1000	1000
Module Weight Wet (kg)	6.5	6.0	9.0
Nominal Module Length (mm)	1157	1157	1800
Nominal Module Diameter (mm)	119	119	119
Typical Applications	General Applications	High Solids & General Applications	General Applications

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### Module Performance

Module Model	L10V	L10U	L20V
Membrane Material	PVDF	PVDF	PVDF
<b>Chlorinated Secondary Effluent</b>			
Module Flow (kL/day)	30.3		49.4
Recovery	93%		94%
<b>Clear Surface Water</b>			
Module Flow (kL/day)	38.5		62.7
Recovery	95%		96%
<b>Turbid Surface Water</b>			
Module Flow (kL/day)	30.3	24.2	49.4
Recovery	94%	93%	94%
<b>Surface Water - with Algae or coagulant</b>			
Module Flow (kL/day)		26.3	
Recovery		93%	
<b>Sea Water</b>			
Module Flow (kL/day)	35.7		58.3
Recovery	95%		95%
<b>Chlorinated Municipal Water</b>			
Module Flow (kL/day)	55.0		89.5
Recovery	> 96%		> 96%

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## MEMCOR<sup>®</sup> Submerged Membranes

### Module Parameters

Module Model	S10V	S10U
Membrane Material	PVDF	PVDF
Backwash Type	Air Scour Liquid B/W	Air Scour Liquid B/W
Nominal Pore Size ( $\mu\text{m}$ )	0.04	0.04
Surface Area (m <sup>2</sup> )	27.9	22.1
Maximum Temp (°C)	45	45
pH Range	2-10	2 -10
Average Free Chlorine (ppm)	< 5	< 5
Maximum Free Chlorine (ppm)	200	200
Module Weight Wet (kg)	6.7	5.0
Nominal Module Length (mm)	1186	1186
Nominal Module Diameter (mm)	131	131
Typical Applications	General Applications	High Solids & General Applications

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### Module Performance

Module Model	S10V	S10U
Membrane Material	PVDF	PVDF
<b>Chlorinated Secondary Effluent</b>		
Module Flow (kL/day)	32.9	
Recovery	94%	
<b>Clear Surface Water</b>		
Module Flow (kL/day)	39.2	
Recovery	96%	
<b>Turbid Surface Water</b>		
Module Flow (kL/day)	32.9	26.1
Recovery	94%	93%
<b>Surface Water - with Algae or coagulant</b>		
Module Flow (kL/day)		28.7
Recovery		94%
<b>Sea Water</b>		
Module Flow (kL/day)	39.2	
Recovery	95%	
<b>Chlorinated Municipal Water</b>		
Module Flow (kL/day)	52.4	
Recovery	96%	

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## Feed Water

The specifications above give indicative performance for a range of water sources. The characteristics of these water sources are tabulated below:

Water Type	Turbidity NTU	SS mg/L	BOD mg/L	TOC mg/L	Ammonia mg/L	Coag. mg/L	Total Chlorine mg/L	Free Chlorine mg/L
Chlorinated Secondary Effluent	< 10	< 50	20	N/A	> 3	Nil	1 - 3	Nil
Clear Surface Water	< 10	1	N/A	< 2	N/A	Nil	Nil	Nil
Turbid Surface Water	10 - 100	< 100	N/A	< 10	N/A	< 5	Nil	Nil
Surface Water with Algae or Coagulant	100 - 200	< 100	N/A	< 15	N/A	5 - 20	Nil	Nil
Sea Water	10 - 40	10 - 30	N/A	< 2	N/A	Nil	< 2	< 2
Chlorinated Municipal Water	< 1	0.1	N/A	< 1	N/A	Nil	< 2	< 2

Contact Memcor Australia for advice on treatment of feed waters that are outside the range of qualities given above, or where performance guarantees are required.