

CATALOGUE

2025 - 2026

edition 2



MINDER
WATER INDUSTRIES

www.minderwater.com.au

WHAT'S NEW?

Products & Organisation Update

ALL-NEW MAB SERIES PUMP

Minder will launch the all-new MAB series pump in February 2025. It has an exceptional fan-cooled system designed for heated pool and tropical climate.



Valvematic, Automatic

One of the most user friendly automatic backwash systems. Set-and-go, never touch your filter again.



Windmill Laterals

It is one of the most innovative lateral design that allow total utilisation of filtration area. It also increases backwash efficiency and flow rate by 6%.



REDESIGNED G, GS SERIES

A redesigned laminated filters has launched in December 2024. "The design will make you look" said Raj, the General manager of Minder Malaysia.



Who don't get slippy hands after swimming?

Everyone do. That's why Minder has improved our ladder design by adding anti-slip material on the handle.



Have you ever grab the red hot ladders handle on a sunny day?

We have. That's why the padding is also heat resistant.



refer to pg.91

THE MOST VIVID UNDERWATER LIGHT



Minder is officially Halal certified

Minder filtration systems are approved by Islamic Food Research Centre to process drinking water. "Every swimmers drink some water when changing breathe in the water so it is a peace of mind for Muslim swimmers." said Syeikh Rafa'i Azman Malizi ,B.A Al Azhar University, Islamic Researcher.

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Our Products Your Future.

**SYDNEY HARBOUR,
AUSTRALIA.**

Minder has a long history of manufacturing filtration equipments for commercial and industrial applications.

 **MINDER**
WATER INDUSTRIES

www.minderwater.com.au



Dubai Safari Park
Dubai, UAE



Barangaroo Water Treatment Plant
New Wale Wales,Australia



Dolphin Pool at Vin Pearl,
Nha Trang,Vietnam



Sea World
Gold Coast,Australia



Zhuhai Ocean World
Guangdong,China



Bendigo Aquatic Center
Australia

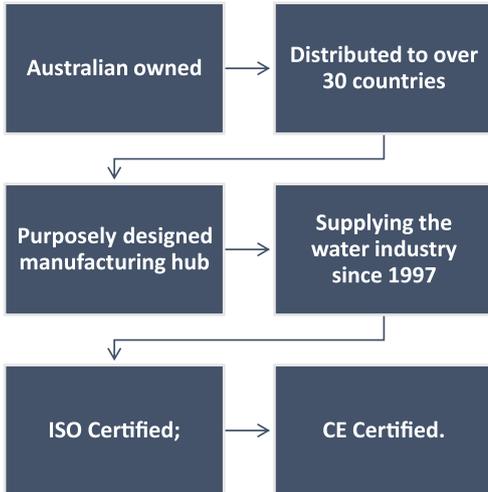


Griffith University
Queensland,Australia



Royal Air-Force Base
New South Wale,Australia

General Business Background



Certificate of Registration of a Company

This is to certify that
MINDER WATER INDUSTRIES PTY. LTD.
 Australian Company Number 629 979 375
 is a registered company under the Corporations Act 2001 and is taken to be registered in Queensland.
 The company is limited by shares.
 The company is a proprietary company.
 The day of commencement of registration is the ninth day of August 2017.



Issued by the Australian Securities and Investments Commission on this ninth day of August, 2017.

[Signature]
 City of Perth
 Chairman

CERTIFICATE

Certifications

- Recognised by the world;
 - Productions;
 - Products;
 - Brand.



Certificate of Membership 2014

This is to certify that
MINDER
 Membership No. 20138
 having been qualified and having undertaken to comply with the Association's Rules and By-Laws including the Member's Code of Ethics,
 has been duly accepted and enrolled as a
Recommended Member of the Association
 for the Membership Year
 for the category of Associate Member

[Signature] Date: 23/01/2014
 Secretary
 Secretary of the Registered Association

Watermark Panel & Saw Association of Queensland Inc. 10-10-2014 10:00
 PO BOX 123377 Fax: 07 553 1515 Email: qa@spasa.com.au Web: www.spasa.com.au



Covering the world



- Distributed to over 30 countries;
- 40,000+ filtration systems are sold annually;



Manufacturing Capability



In ensuring we have a stable, sustainable and cost effective supplies of plastic items, we own a plastic injection production facility since 2016. This gives us much control on our quality, flexibility and inventory management. When it comes to product development and improvement, this provide us the capability to produce and modify our tools quickly at competitive cost to react to the fast chasing market environment with new and improved products. Our plastic injection moulding machines goes up to 800 tonne and CNC machines for tools fabrication.

- **Backed by solid foundation**
- **Purposely designed manufacturing hub**
 - Plastic injections
 - Plastic blow-mouldings
 - Fibreglass mouldings
 - General assembly lines

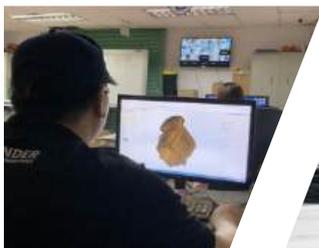


Quality Control



- Quality is our priority;
- ISO-9001:2015 certified;
- CE certified;
- Lab for material analysis;
- Test Bays along production lines

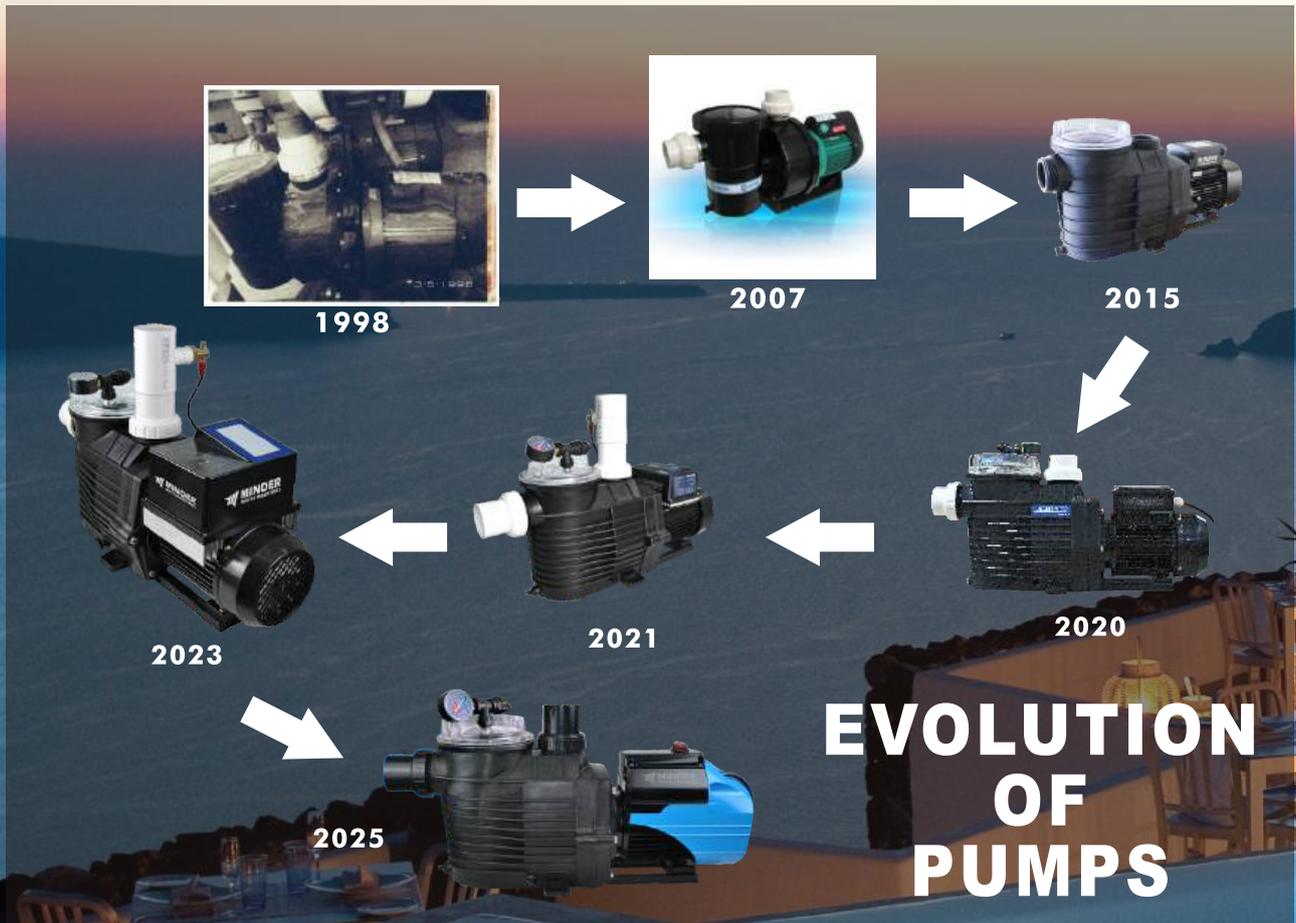
R&D



- Drive us to the future;
- Problems -> Solutions = New Products
- All about fixing problems
 - User-friendliness;
 - Lifespan;
 - Cost;
 - Greener production.



PUMPS



PUMPS	PAGE	PERFORMANCE (HP)													
		0.5	0.75	1.0	1.2	1.5	2.0	3.0	4.0	5.0	7.5	10	15	20	25
MXB-ECO	19	✓ INVERTER	✓ INVERTER	✓ INVERTER	✓ INVERTER	✓	✓ INVERTER	✓							
MVP	21	✓	✓	✓	✓										
MXB	17			✓	✓	✓	✓	✓							
MAB	12			✓		✓	✓	✓							
MDB	13								✓	✓					
MRB	23							✓	✓	✓	✓				
MTX	25										✓	✓	✓		
MUK	15											✓	✓	✓	✓

MAB SERIES PUMP



POWERFUL AIR-COOLED MOTOR

Exceptional cooling performance, ideal for heated pools and hot climates.

DEDICATED FOR HEATED POOLS

Max water and environmental temperature at 63°C

CONTINUOUS AND RELIABLE PERFORMANCE

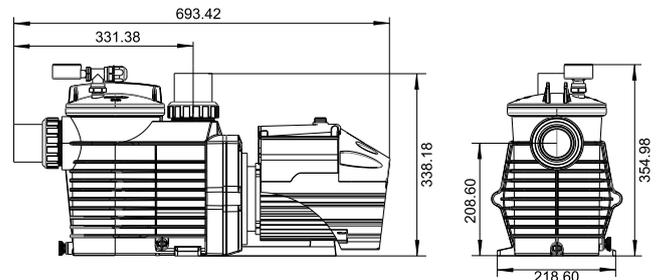
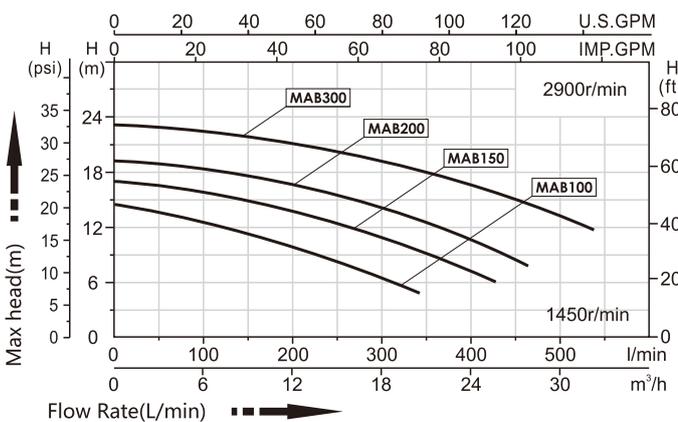
Capable of continuous operation with outstanding durability.

START STOP BUTTON

One-touch start stop button for enhanced safety and convenience. Easy backwash operation for manual MPVs.



MODEL	CODE	CONNECTIONS		VOLTAGE	PHASE	FREQUENCY	AMP	INPUT POWER	OUTPUT POWER	RPM
		IMPERIAL	METRIC	V		Hz	A	kw	HP	
MAB100	96305			220 - 240	1	50	3.8	0.75	1	2850
MAB150	96306			220 - 240	1		5.2	1.1	1.5	
MAB200	96307			220 - 240	1		7.0	1.5	2	
MAB300	96308			220 - 240	1		7.0	2.2	3	
MAB300	96309			380 - 400	3	10.0	2.2	3		
MAB100	96310	2.0"	63mm	220 - 240	1	60	3.8	0.75	1	
MAB150	96311			220 - 240	1		5.2	1.1	1.5	
MAB200	96312			220 - 240	1		7.0	1.5	2	
MAB300	96313			220 - 240	1		7.0	2.2	3	
MAB300	96314			380 - 400	3		10.0	2.2	3	



Lid opener (Optional)
Code : 20559



Outstanding cooling



One button switch

MDB Commercial Series



Commercial High-Performance Pump

5HP Powerful Output with a maximum flow rate of 62m³/h.

Durable Construction

Made from 316 stainless steel and high-quality engineering plastic, suitable for seawater use and compatible with salt chlorinators.

Large Inlet & Outlet

Features a 2.5" inlet and 2" outlet for improved water flow, enhanced lift, and balanced pressure.

Quick-Connect Unions

Allows for easy and fast installation.

Application

- Swimming pools
- Aquariums
- Water parks
- Aquaculture

Warranty

Pump body, impeller, union	2 years
Motor, O-rings	1 year



Robust Plastic Body

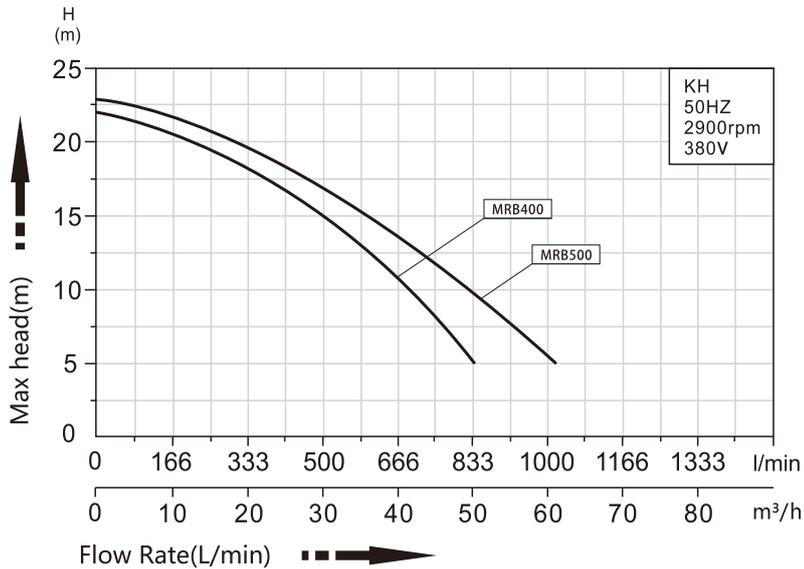


2.5" Inlet



Commercial-grade motor

Specification



MDB

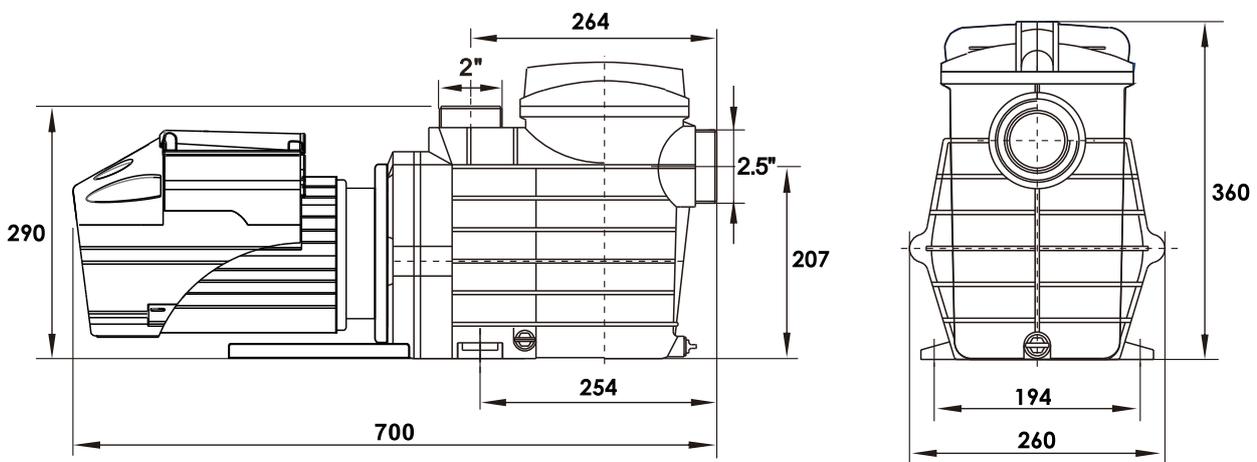
Commercial Series

Operating Limits

Maximum water temperature	50 °C
Maximum Ambient Temperature	50 °C
Noise at 1 meter	65 dB

MODEL	CODE	CONNECTIONS		VOLTAGE V	PHASE	FREQUENCY Hz	INPUT POWER kw	OUTPUT POWER HP	RPM
		INLET	OUTLET						
MDB400	96315	75mm	65mm	380 - 400	3	50	3	4	2850
MDB500	96316				3	50	4	5	
MDB400	96317				3	60	3	4	
MDB500	96318				3	60	4	5	

Dimensions



COMMERCIAL PERFORMANCE

Maximum output of 25HP with a flow rate of up to 198 m³/hour.



SUITABLE FOR SEAWATER AND FRESHWATER

Metal components are made of 316 stainless steel for corrosion resistance, while plastic parts are constructed from engineered plastic for pressure and corrosion resistance.

LARGE DIAMETER INLET AND OUTLET

6" (150mm) inlet and outlet with flange connections.



MODEL	CODE	CONNECTIONS	VOLTAGE	FREQUENCY	INPUT POWER		MAX FLOW	HEAD MAX	RPM
		INLET / OUTLET	V	Hz	kw	HP	L/min	m	
MUK1000	90946	DM150 (6")	380	50	7.5	10	2560	22	2850
MUK1500	90943				11	15	3000	26	
MUK2000	90944				15	20	3100	29	
MUK2500	90945				18.5	25	3300	31	



Outstanding cooling

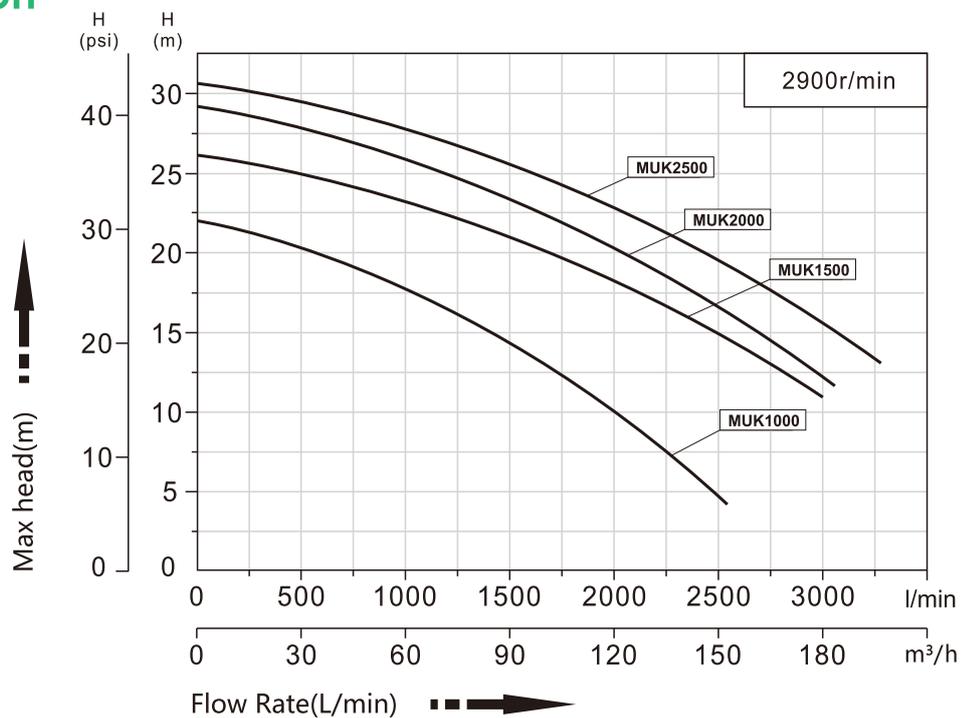


High performance induction motor

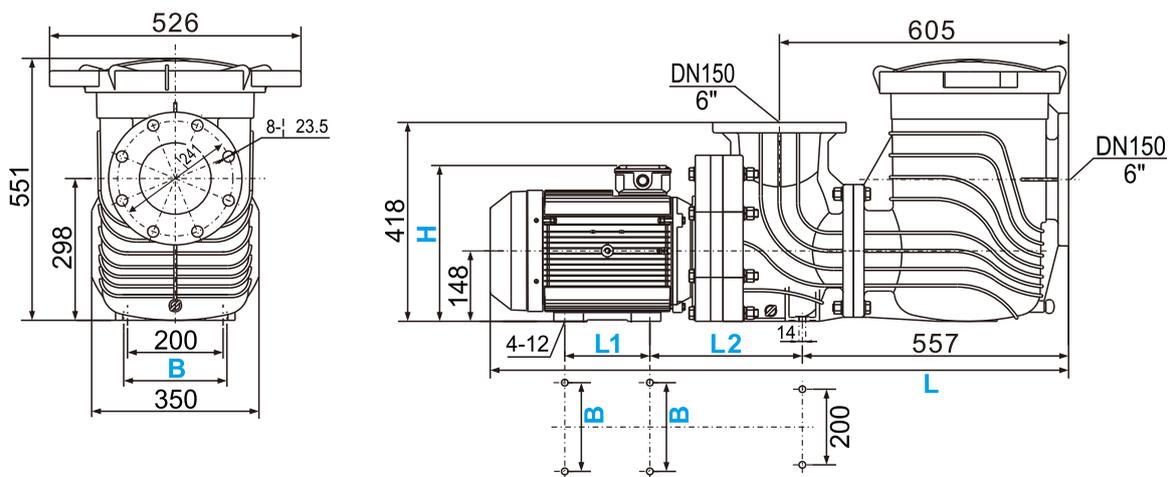


Robust plastic body for high power pump

Specification



Dimensions



MODEL	L	L1	L2	B	H
MUK1000	1155	140	320	190	309
MUK1500	1210	178	319	216	328
MUK2000	1251	178	319	216	328
MUK2500	1251	178	319	216	328

Features & Advantages

- **Ultra Quiet Operation** - MINDERSPEED™ pumps are so quiet that you may not even notice it is running. It is rated at 61 dB at 1 meter distance.
- **Reliable** - Wet-end component is constructed from corrosion and UV resistant engineered plastic for long operation life. Built in over-heating and overloading protection.
- **Performance** - Unique AC bearing technology allows effective power delivery, resulting in optimum flow rate for quick water turnover.
- **Convenient** - Extra-large basket for long intervals between cleaning.
- All models come with 2" (Imperial) / 63mm (Metric) angle adjustable union. (Traditional Union is available by request)
- Equipped with indicator markings to clearly observe the inlet and outlet, ensuring they are not blocked to prevent motor dry running.
- **Self - priming** at 2m



Multi-fit Union



► Patented

MINDERSPEED™ PUMPS employ the latest AC bearing technology. It minimizes noise and vibration during operation and maximize durability and performance of the motor.

Operating Limits

Maximum water temperature	50 °C
Maximum Ambient Temperature	50 °C
Noise at 1 meter	65 dB

Warranty

Pump body and plastic components	2 years
Motor, O-rings and mechanical seal	1 year

Application

- Domestic pools
- Small commercial pools
- Spa jet operation
- Solar pool heating
- Water features



Lid opener (Optional)
Code : 20559

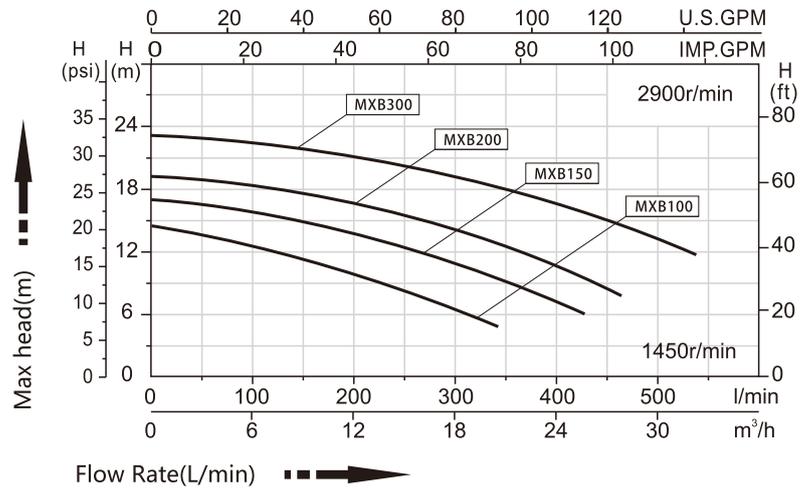


Chemical resistance pump body



Ultra-quiet induction motor

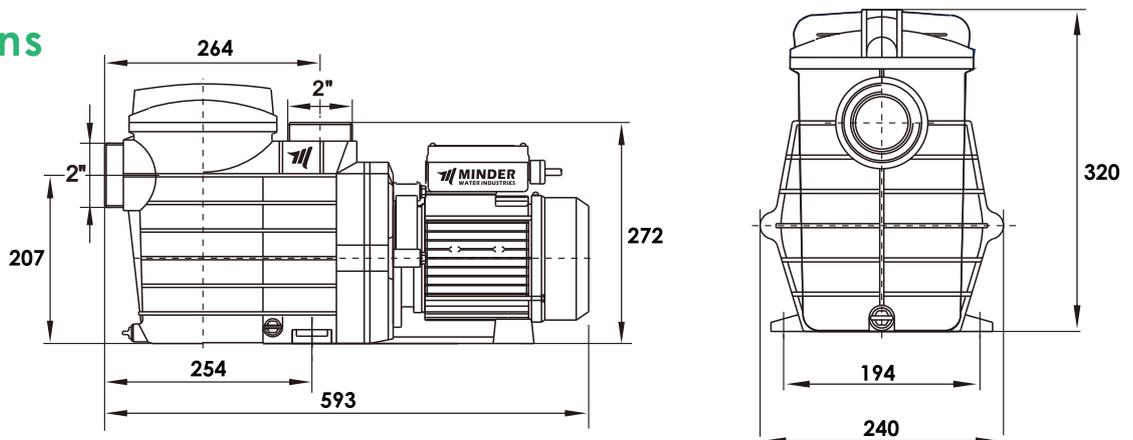
Specification



MODEL	CODE 50HZ	CONNECTIONS	VOLTAGE	PHASE	AMP	INPUT POWER	OUTPUT POWER	RPM
		INCH	V		A	kw	HP	
MXB100	90889	2.0"	220 - 240	1	3.8	0.75	1	2850
MXB150	90890		220 - 240	1	5.2	1.1	1.5	
MXB200	90891		220 - 240	1	7.0	1.5	2	
MXB200	90991		380 - 400	3	7.0	1.5	2	
MXB300	90892		220 - 240	1	10.0	2.2	3	
MXB300	90893		380 - 400	3	10.0	2.2	3	

MODEL	FLOW @ 6M HEAD	MAX WATER TEMPERATURE	MAX ENVIRONMENT TEMPERATURE	NOISE @ 1 METRE
	m³/h			dB
MXB100	16.2	50	50	62
MXB150	21.6			63
MXB200	26.1			65
MXB300	33.8			69

Dimensions





PUMPSAFE Protection

Built-in SVRS System

(Safety Vacuum Release System)

When a person or object gets trapped at the drain outlet due to suction force, the pump will automatically shut down to prevent drowning or equipment damage.

When a swimmer (typically a child) becomes trapped by the suction force generated at the pool drain outlet,



a suction entrapment hazard occurs. In some cases, the swimmer may remain trapped underwater until drowning occurs, potentially leading to serious injuries to various parts of the body. For schools or infant pools, it is recommended to use a pump equipped with an SVRS system to prevent such accidents.

• Protection

Eliminate Run-Dry. Protect mechanical seal and motor.

• Smarter Backwash*

Automatically maximise speed during backwash for ultimate backwash result and reduce water consumption.

• Money Matters

Consumes up to 80% less power than single speed pumps, with live time running cost displays on home screen.

• Right Speed at the Right Time

Low-speed at night for low noise, high-speed at off-peak electricity cycle for cost efficiency. All at your control.

• 7-days Schedule

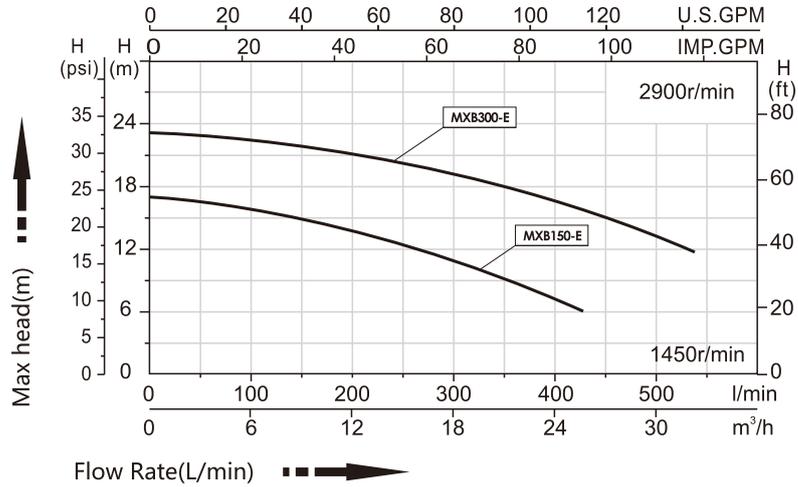
3 cycles per day, Monday to Sunday.

***Require Valvematic to enable**

A data connection cable will be provided to connect between **MINDERSPEED_{ECO}** & Valvematic filters.



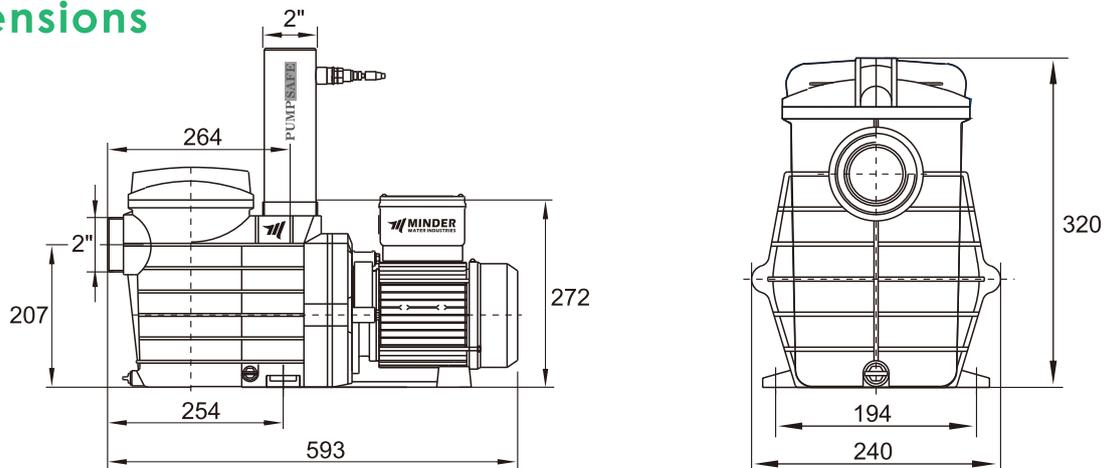
Specification



MODEL	CODE 50HZ	CONNECTIONS	VOLTAGE	PHASE	AMP	INPUT POWER	OUTPUT POWER	RPM
		INCH	V		A	kw	HP	
MXB150-E	90998	2.0"	220 - 240	1	5.2	1.1	1.5	2850
MXB300-E	90999				10.0	2.2	3	

MODEL	FLOW @ 6M HEAD	MAX WATER TEMPERATURE	MAX ENVIRONMENT TEMPERATURE	NOISE @ 1 METRE
	m³/h			dB
MXB150-E	21.6	50	50	63
MXB300-E	33.8			69

Dimensions





Features & Advantages

- **Convenient** - SUPA CYCLONE™ pumps come with a tool-free strainer lid for easy removal of leaves.
- **Reliable** - Constructed from strong engineered plastic to ensure corrosive and UV proof for long-lasting life.
- **Safe** - Built-in thermal overload protection against damage from overheating.
- All models come with 1.5" (Imperial) /50m (Metric) traditional union.
- **Self - priming** at 2m
- Enclosure Class is IP55 & Insulation Class is F.

Warranty

Pump body and plastic components	2 years
Motor, O-rings and mechanical seal	1 year

SUPA CYCLONE™ pump series is a cost effective solution for water circulation. They have all the necessary performance for domestic pools and are engineered for easy installation and worry free operation.

Application

- Domestic pools
- Spa jet operation
- Solar pool heating
- Water features

Operating Limits

Maximum water temperature	50 °C
Maximum Ambient Temperature	50 °C
Noise at 1 meter	65 dB



Chemical resistance pump body

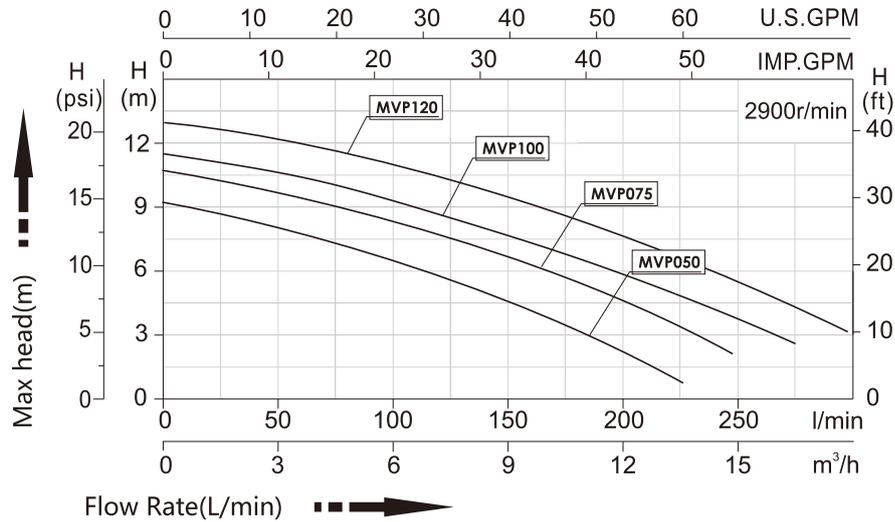


High performance induction motor



Transparent Lid with easy removable strainer

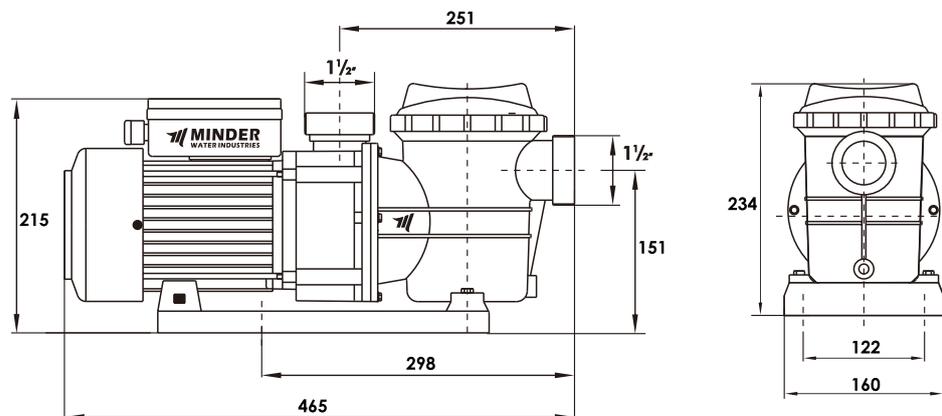
Specification



MODEL	CODE 50HZ	CONNECTIONS	VOLTAGE	PHASE	AMP	INPUT POWER	OUTPUT POWER	RPM
		INCH	V		A	kw	HP	
MVP050	90992	1.5"	220 - 240	1	1.7	0.37	0.5	2850
MVP075	90993				2.5	0.55	0.75	
MVP100	90994				3.4	0.75	1.0	
MVP120	90995				4.1	0.90	1.2	

MODEL	FLOW @ 6M HEAD	MAX WATER TEMPERATURE	MAX ENVIRONMENT TEMPERATURE	NOISE @ 1 METRE
	m³/h			dB
MVP050	13	50	50	60
MVP075	14			61
MVP100	16			62
MVP120	18			68

Dimensions





Features & Advantages

- **Toughness** - Engineered for long hours operations.
- **Swap & Go** - Wet-end and motor can be easily detached on site. Just swap either component when service is required and let the system keep running to reduce down time.
- **Robust** - Unique flange connections both in Inlet and Outlet for extra stability.
- **Convenient** - Extra-large basket for long intervals between cleaning.
- All models come with flange connection 65mm Inlet and 65mm Outlet.
- Optional Shock absorber (Product Code: 90576) is available.
- **Self - priming** at 2m
- Enclosure Class is IP55 & Insulation Class is F.

Warranty

Pump body and plastic components	2 years
Motor, O-rings and mechanical seal	1 year

MONSOON™ pump is designed for commercial swimming pools. The entire range comes with standard flange connection. With 75mm Inlet and 65mm Outlet, it offers well balance between flow rate and head. MRB series pumps are built for the toughest conditions with heavy duties motor and pump components.

Operating Limits

Maximum water temperature	50 °C
Maximum Ambient Temperature	50 °C
Noise at 1 meter	65 dB

Application

- Domestic pools
- Commercial pools
- Water features



Robust plastic body

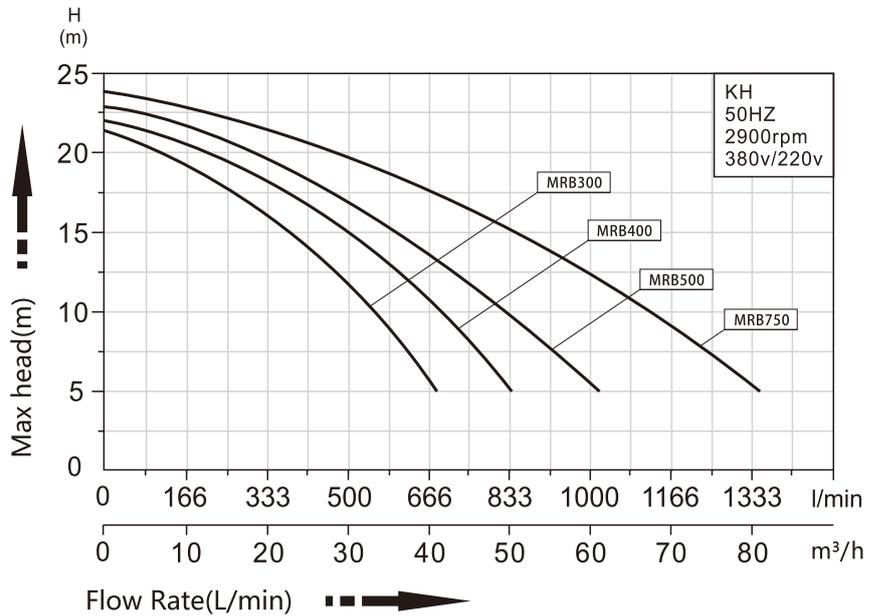


Flange connection & transparent lid



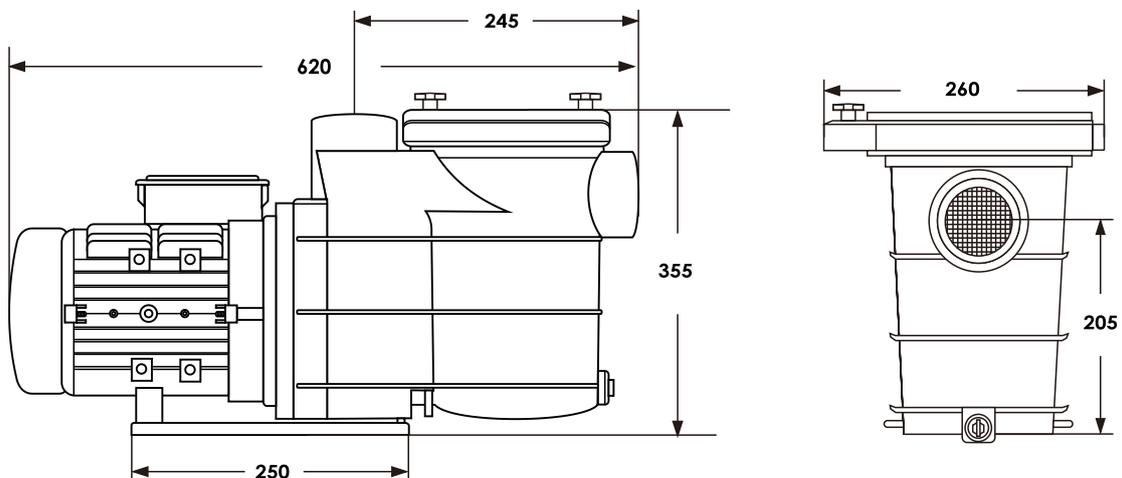
Optional shock absorber
Order code : 90576

Specification



MODEL	CODE 50HZ	CONNECTIONS		VOLTAGE V	PHASE	INPUT POWER	OUTPUT POWER	RPM
		INLET	OUTLET			kw	HP	
MRB300	70663	75mm	65mm	380 - 400	3	2.2	3	2850
MRB400	70664				3	3	4	
MRB500	70665				3	4	5	
MRB750	71036				3	5.5	7.5	

Dimensions





Features & Advantages

- **Reliable** - Constructed from corrosion resistant engineered plastic for long working life.
- **Sea Water** - Appropriate especially for sea water application such as in Aquarium.
- **High Performance** - Maximum flow rate up to 110m³/h.
- All models come with union connection 90mm.
- **Self - priming** at 2m
- Enclosure Class is IP55 & Insulation Class is F.

Warranty

Pump body and plastic components	2 years
Motor, O-rings and mechanical seal	1 year

MINDER TORNATO™ pump, with maximum of 15hp, is designed for commercial pools and aquariums. The wet-end components are constructed from corrosion, high and low temperature resistant engineered plastic for long operation life. All models come with 3" union (Imperial or Metric).

Operating Limits

Maximum water temperature	50 °C
Maximum Ambient Temperature	50 °C
Noise at 1 meter	65 dB

Application

- Domestic pools
- Commercial pools
- Aquariums



Transparent Lid

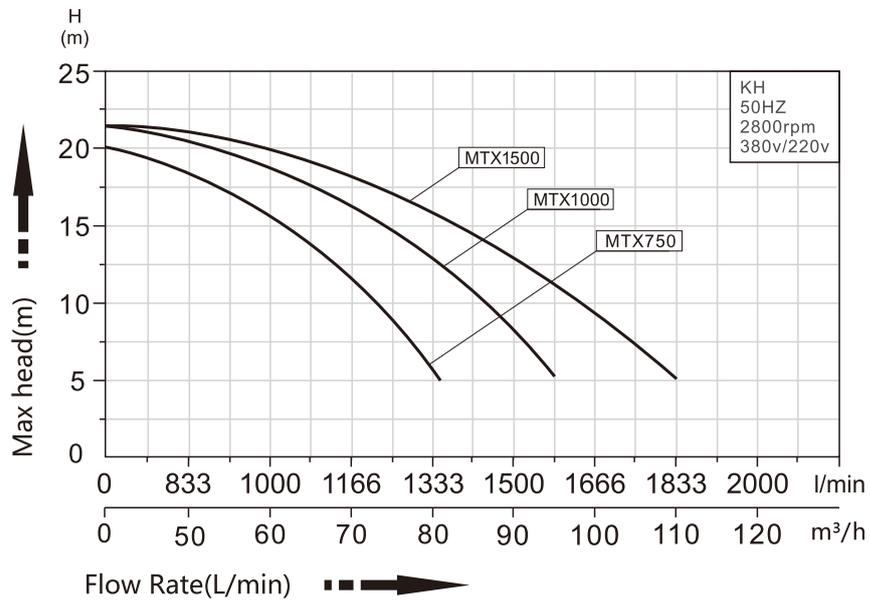


Robust plastic body for high power pump



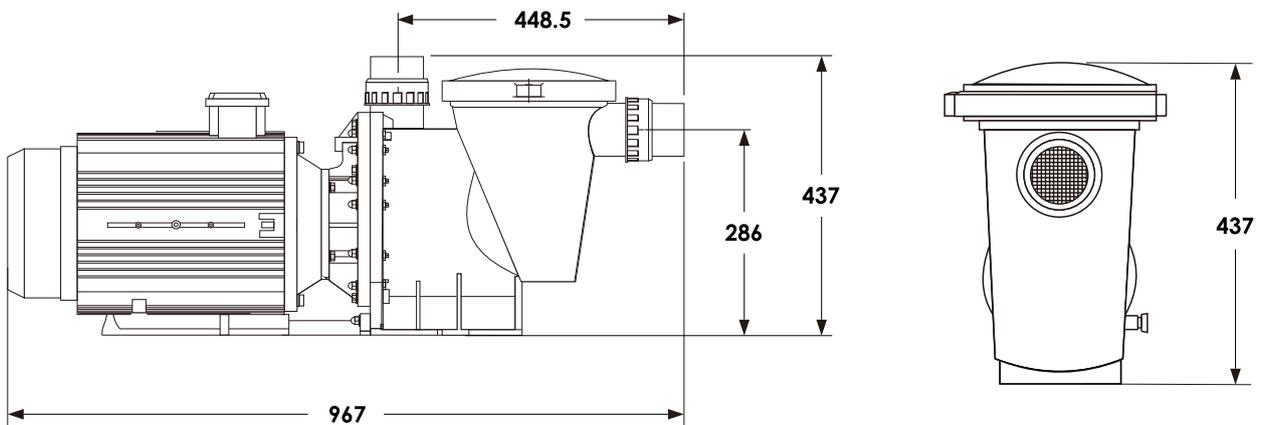
Easy union connection union 3" / 90mm
20651

Specification



MODEL	CODE 50HZ	CONNECTIONS		VOLTAGE V	PHASE	INPUT POWER kw	OUTPUT POWER HP	RPM
		IMPERIAL	METRIC					
MTX750	90722					5.5	7.5	
MTX1000	90723	3.0"	90mm	380 - 400	3	7.5	10	2850
MTX1500	90724					11	15	

Dimensions





Features & Advantages

- Smooth airflow and quiet.
- High performance with low power consumption.
- Compact design with modern appearance.
- Long life time.
- Non-oil lubricating design to produce more purified air.

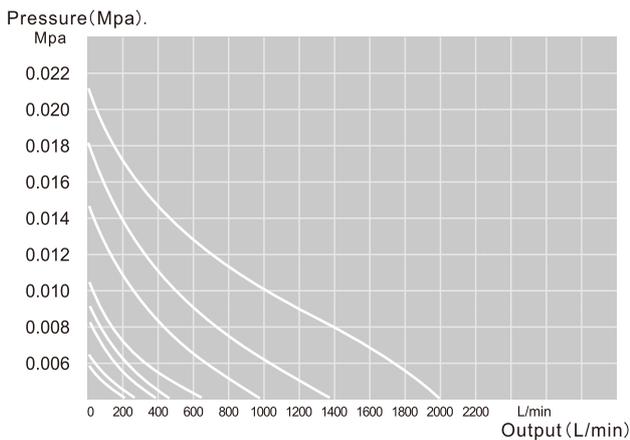
Warranty

MVB Airblower

1 year

Application

- Spa feature for swimming pools



Specification

MODEL	CODE 50HZ	POWER	VOLTAGE	PRESSURE	VOLUMETRIC OUTPUT AT 0 MPA	WEIGHT	SIZE
		W	V	MPA	l/min	kg	mm
MVB125G	90460	70	110 / 220-240	>0.006	250	7.0	236 x 179 x 186
MVB185G	90461	90		>0.007	300	7.4	233 x 199 x 207
MVB290G	90462	120		>0.009	350	8.0	230 x 199 x 215
MVB390G	90463	180		>0.010	500	10.2	255 x 223 x 230
MVB600G	90464	250		>0.011	640	11.0	256 x 246 x 256
MVB800G	90465	400		>0.015	1000	17.0	295 x 295 x 305
MVB1200G	90466	600		>0.019	1317	21.0	315 x 310 x 325
MVB2200G	90467	1220		380	>0.020	2100	46.5

FILTRATION EQUIPMENT





Features & Advantages

- 100% factory tested according to international and MINDER improved standard.
- Smart air relief valve for manual and automatic air pressure release.
- Designed to assemble with valve manifold.
- In-fluent manifold distribution to prevent clogging.
- Materials used are durable and suitable for all-weather performance.
- 5-15years life time
- Available in standard 2.5bar and advance 4.0bar operating pressure model.

Warranty

Fittings	1 year
Filter Tank	1 year

F Series vertical commercial filters are designed with top quality in mind for various high applications. F series filters size range from 1000mm to 3000mm in diameter with optional accessories.

Operating Limits

Model	2.5bar	4.0bar
Maximum water temperature	43 °C	43 °C
Operating Pressure	2.5bar	4.0bar
Maximum Pressure	4.0bar	6.0bar

Optional Components

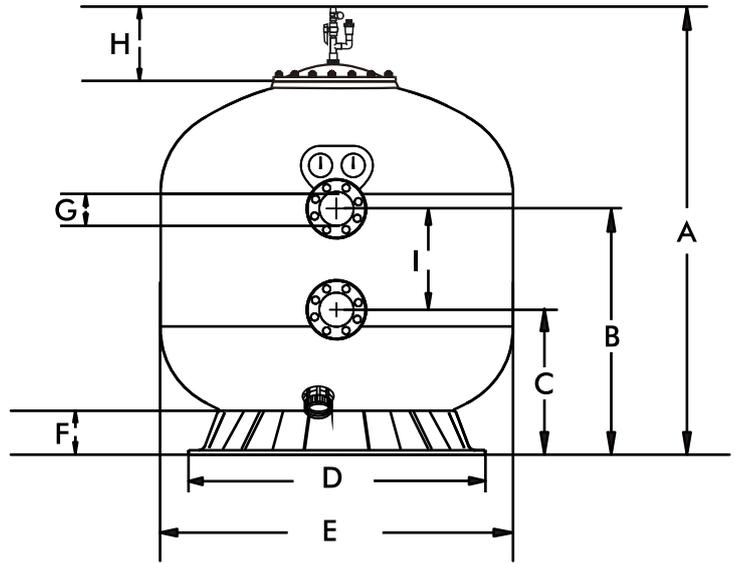
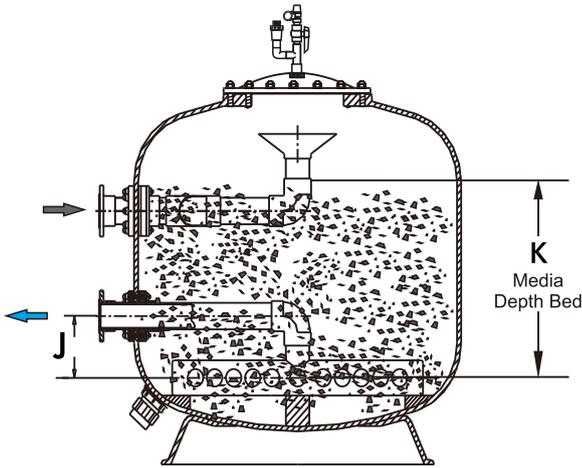
- Nozzle collection system
- Additional bed depth
- Internal sight glass
- Inline sight glass
- Side manhole
- Valve manifold (valve battery)
- Vinyl-ester internal coating

Specification

MODEL	CODE		TANK Ø	FLANGE CONNECTION	FILTRATION AREA	DESIGNED VELOCITY	MAXIMUM FLOW RATE		BACKWASH FLOW AT 40m ³ /h/m ²		MEDIA DEPTH BED	SILICA SAND (kg)	GRAVEL REQUIRED (kg)	SAND REQUIRED (kg)
	2.5bar	4.0bar	mm	mm	m ²	m ³ /h/m ²	m ³ /h	lpm	m ³ /h	lpm	mm	1-2mm	1-2mm	0.5-1mm
F1000	70129	70129	1000	90	0.88	50	40	540	40	660	900	900	200	850
F1200	70130	71097	1200	90	1.13		52	860	58	963	1000	1200	300	1200
F1400	70131	71098	1400	110	1.54		69	1150	75	1245	1100	1900	450	1650
F1600	70132	71099	1600	110	2		80	1334	90	1333	1200	2600	675	2150
F1800	70133	73001	1800	160	2.7		120	2000	130	2159	1300	3200	750	2800
F2000	70134	73002	2000	160	3.14		157	2617	180	3004	1440	4600	1050	3800
F2350	70135	73003	2350	200	4.3		206	3440	250	4168	1480	6700	1800	5275
F2500	70137	73004	2500	200	4.9		250	4168	300	4780	1500	8000	2200	5950
F3000	70138	73005	3000	250	7.07		353	5883	400	6640	2200	11000	3300	8600

- * Flange connection standard: DIN (Other standard is available upon request)
- * Silica sand data is only for reference as different sand size will weigh differently
- * To customize a 4KG pressure model, an additional 30% will be charged on top of the standard price for the 2.5KG model

F SERIES COMMERCIAL FILTER

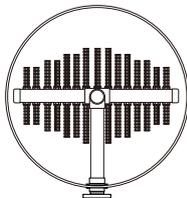
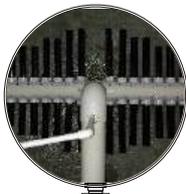


Dimensions

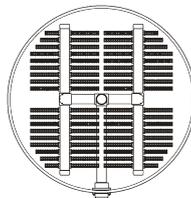
MODEL	CODE	A	B	C	D	E	F	G	H	I	J	K
		mm										
F1000	70129	1430	800	480	920	1000	170	80	100	360	230	675
F1200	70130	1530	900	530	920	1200	170	80	100	360	230	725
F1400	70131	1600	1000	530	1210	1400	180	100	100	470	300	760
F1600	70132	1880	1100	610	1210	1600	180	100	100	470	300	900
F1800	70133	1980	1200	640	1440	1800	230	150	100	560	350	950
F2000	70134	2230	1340	780	1440	2000	230	150	100	560	350	1075
F2350	70135	2430	1450	890	1950	2350	280	200	100	560	500	1175
F2500	70137	2730	1610	1050	1950	2500	280	200	100	560	500	1325
F3000	70138	3120	1880	1330	1950	3000	280	250	100	560	700	1520

Collection Systems ▶ Patented

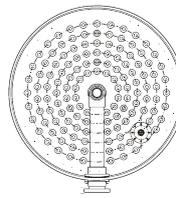
Standard Lateral System
F1200 / F1400 / F1600



Standard Lateral System
F1800 / F2000 / F2300 /
F2500 / F3000



Optional Nozzle
collection system



Optional Nozzle collection system is made available to all F series filter.

Nozzle collection system provides wider and much even collection of water flow. Also, the media system can be backwashed by pairing air and water which reduce the amount of wastewater by 50% .



Features & Advantages

- 100% factory tested according to international and MINDER improved standard.
- Smart air relief valve for manual and automatic air pressure release.
- Designed to assemble with valve manifold.
- In-fluent manifold distribution to prevent clogging.
- Materials used are durable and suitable for all-weather performance.
- 5-15 years life time
- Available in standard 2.5bar and advance 4.0bar operating pressure model.

Warranty

Fittings	1 year
Filter Tank	1 year

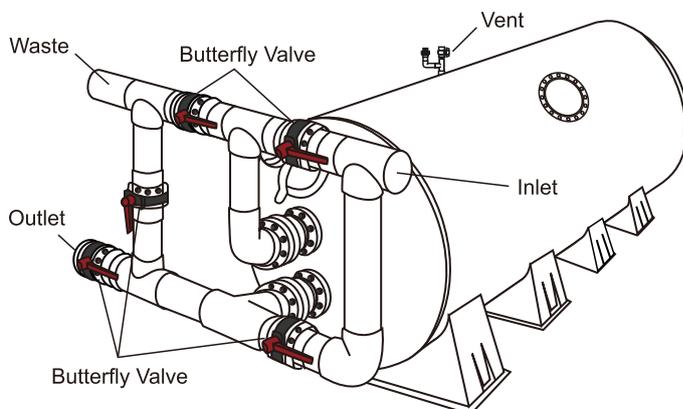
B Series horizontal commercial filters offer a much bigger filtration system for big commercial projects. B series filters size range from 1050mm to 2500mm in diameter with optional accessories.

Operating Limits

Model	2.5bar	4.0bar
Maximum water temperature	43 °C	43 °C
Operating Pressure	2.5bar	4.0bar
Maximum Pressure	4.0bar	6.0bar

Optional Components

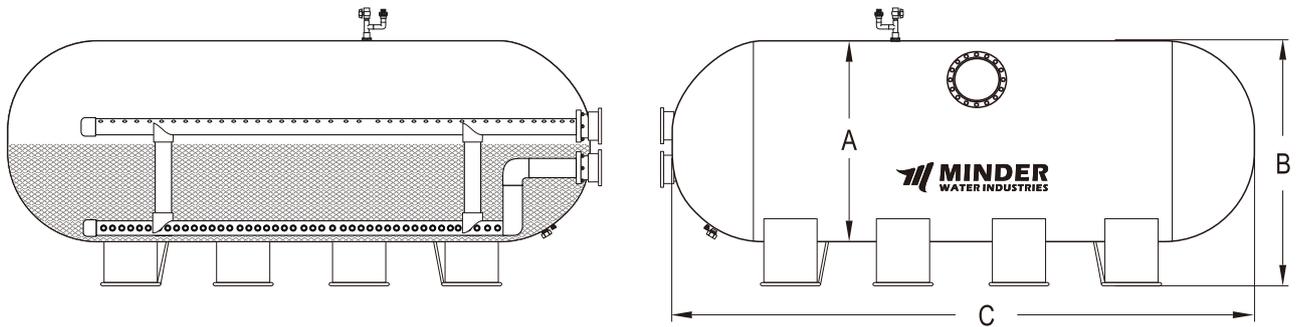
- Additional inline sight glass
- Internal sight glass
- Side manhole
- Valve manifold (valve battery)
- Vinyl-ester internal coating



► **Patented**

Optional configuration available by request

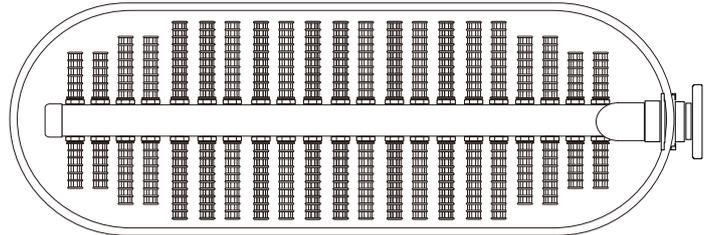
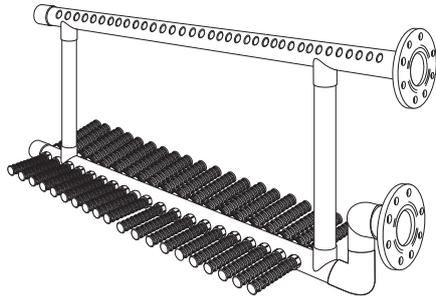
B SERIES COMMERCIAL FILTER



Dimensions

MODEL	CODE	TANK Ø	HEIGHT	LENGTH	FLANGE CONNECTION	FILTRATION AREA	DESIGNED VELOCITY	MAXIMUM FLOW RATE	MEDIA BED DEPTH	SILICA SAND (kg)	GRAVEL (kg)
		A	B	C							
A: Tank Diameter 1050mm											
B1050-1.9	70682	1050	1260	1,900	80	1.72	30	42	500	350	950
B1050-2.3	70683		1260	2,300	110	2.12	20	64		475	1,250
B1050-2.5	70684		1260	2,500	110	2.32	20	70		575	1,525
B1050-2.7	70685		1260	2,700	160	2.51	40	75		700	1,600
B1050-3.0	70686		1260	3,000	160	2.81	40	84		775	2,025
A: Tank Diameter 1200mm											
B1200-2.5	70687	1200	1500	2,500	160	2.65	40	106	600	700	1,750
B1200-3.0	70688		1500	3,000	160	3.21	40	129		925	2,325
A: Tank Diameter 1400mm											
B1400-2.5	70689	1400	1600	2,500	160	3.02	40	121	800	800	2,825
B1400-3.0	70690		1600	3,000	160	3.67	30	147		1,000	3,450
A: Tank Diameter 1600mm											
B1600-2.5	70691	1600	1830	2,500	160	3.36	30	134	1000	850	3,875
B1600-3.0	70692		1830	3,000	160	4.1	30	164		1,050	4,750
A: Tank Diameter 1800mm											
B1800-2.5	70693	1800	2050	2,500	160	3.74	30	150	1000	975	4,850
B1800-3.0	70694		2050	3,000	160	4.58	30	183		1,225	5,925
B1800-3.5	70695		2050	3,500	210	5.41	30	216		1,475	7,000
B1800-4.0	70696		2050	4,000	210	6.25	30	250		1,700	8,075
A: Tank Diameter 2000mm											
B2000-2.5	70697	2000	2220	2,500	160	4.34	30	180	1200	1,050	6,575
B2000-3.0	70698		2220	3,000	160	5.3	30	212		1,300	8,025
B2000-3.5	70699		2220	3,500	210	6.25	30	250		1,550	9,475
B2000-4.0	70700		2220	4,000	210	7.21	30	288		1,800	10,925
B2000-4.5	70701		2220	4,500	210	8.16	20	320		2,075	12,375
A: Tank Diameter 2350mm											
B2300-3.0	70702	2350	2560	3,000	160	5.94	20	238	1200	2,575	9,300
B2300-3.5	70703		2560	3,500	210	7.06	30	283		3,125	11,050
B2300-4.0	70704		2560	4,000	260	8.17	40	320		3,650	12,800
B2300-4.5	70705		2560	4,500	260	9.28	40	350		4,200	14,525
B2300-5.0	70706		2560	5,000	260	10.4	30	380		4,750	16,250
A: Tank Diameter 2500mm											
B2500-3.5	70707	2500	2710	3,500	210	7.34	30	300	1300	3,175	11,675
B2500-4.0	70708		2710	4,000	260	8.62	40	335		3,725	13,500
B2500-4.5	70709		2710	4,500	260	9.8	30	380		4,300	15,350
B2500-5.0	70710		2710	5,000	260	10.98	30	410		4,850	17,200

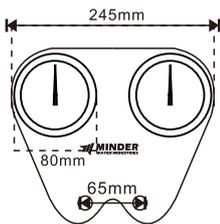
Collection Systems



Standard Inclusions for F and B series

All MINDER commercial filters come with the following fittings. Please inform our representative if you prefer not to have these items installed.

Pressure Gauge Panel



Every F or B series comes with a pressure gauge panel with dual extra large gauges.

Gauges are oil-filled for long-lasting durability.

Order Code:30144

Water Drain



Easy draining of sand and water for F & B series

Order Code:70306

Smart Air Release Valve

MINDER's unique feature "Smart Air Release Valve" can manually release the air inside the tank. Also, the one way valve is able to automatically release negative pressure during water drainage to minimize the impact to the filter tank.

Overpressure Protection

Anti-Vacumm Protection

Code: 90577

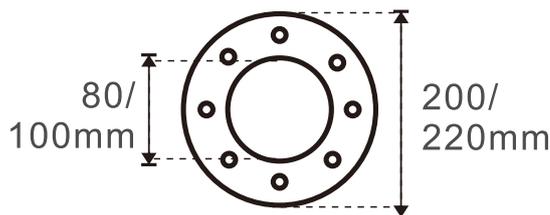


► **Patented**



The following accessories are optional and require an additional charge

Internal Sight Glass

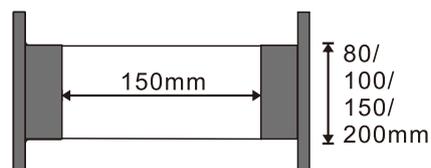


MODEL	CODE	INNER DIA (mm)	OUTER DIA (mm)
SG80	70713	80	200
SG100	70714	100	200

Operational internal sight glass for F or B series. Available in 2 sizes. Allows observation of the sand layer inside the tank

Inline Sight Glass (External Sight Glass)

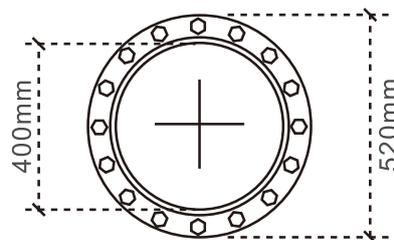
MODEL	CODE	INNER DIA (mm)	LENGTH (mm)
ILSG80	70715	80	150
ILSG100	70716	100	150
ILSG150	70717	150	150
ILSG200	70718	200	150



Optional inline sight glass for F or B series. Available in 4 sizes. Allows operators to effectively monitor water condition during backwashing.

Manhole

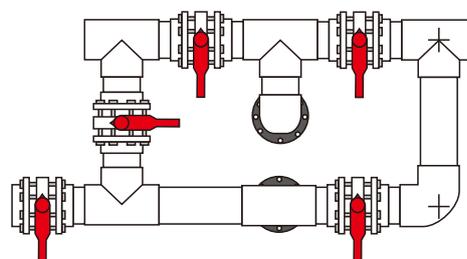
MODEL	CODE	INNER DIA (mm)	OUTER DIA (mm)
MH400	30234	400	520



Optional manhole access for F or B series

Valve Manifold (Valve Battery)

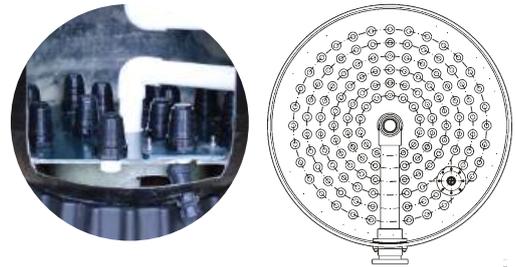
MODEL	CODE	INNER DIA (mm)
MF80	70719	90
MF100	70720	110
MF150	70721	160
MF200	70722	210



Nozzle Plate Collection System

MODEL	CODE	SAND FILTER
NP1000	73149	F1000
NP1200	70515	F1200
NP1400	70516	F1400
NP1600	70517	F1600
NP1800	70518	F1800
NP2000	70519	F2000
NP2300	70520	F2300
NP2500	70521	F2500
NP3000	70522	F3000

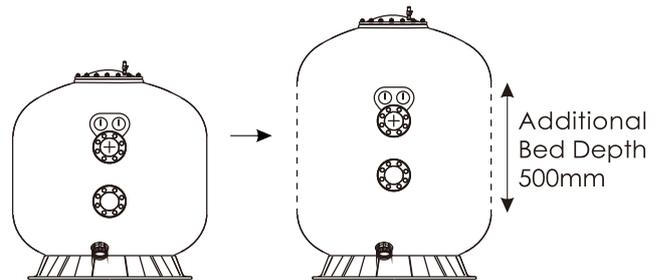
MODEL	CODE	SAND FILTER
NP635	73153	MS25
NP700	73152	MS28
NP750	73151	MS30
NP820	73154	MS32
NP920	73150	MS36



Nozzle plate collection system allows equal distribution of water and enable air wash capability that optimize water saving. Suitable for MS and F series only.

Additional Bed Depth

MODEL	CODE	SAND FILTER
ABD1200	70612	F1200
ABD1400	70613	F1400
ABD1600	70614	F1600
ABD1800	70615	F1800
ABD2000	70616	F2000
ABD2300	70617	F2300
ABD2500	70618	F2500
ABD3000	70619	F3000



Optional bed depth extension for deep bed filtration. Suitable for F series only. Extra depth is in 500mm block.

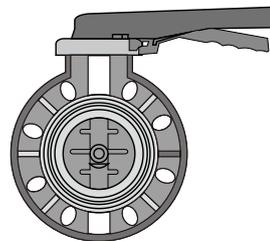
Large bottom sand drain

MODEL	CODE	INNER DIA (mm)
4" flange large bottom sand drain	77980	80



Valve Butterfly

MODEL	CODE	INNER DIA (mm)
BV80	40247	80
BV100	40248	100
BV150	40249	150
BV200	40251	200



Vinyl-Ester Coating

Additional internal layer coating of Vinyl-ester for resistant against corrosion for ozone application.

Bobbin wound material & Quality Test



Minder Offers 2 types of bobbin-wound threading: For commercial filter, the overlapping technology will be chosen, and for Minder domestic products, Minder's cross-winding technology will be chosen for great strength on Minder domestic products.

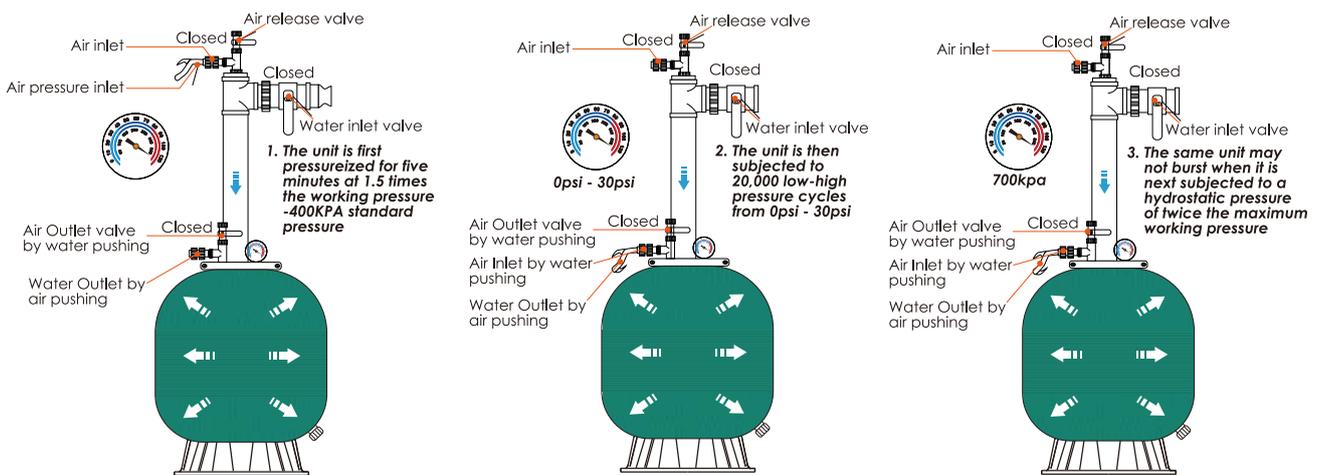
Minder filters are produced with 6 processes to achieve it's highest quality with possible extreme weather conditions in mind.

1. **Optional Vinyl-ester layer:** For resistance against corrosion for ozone application
2. **Chemical Layer:** ISO or VE laminated layer for resistance against corrosion
3. **Internal Structural Layer:** Threading of fibreglass thread with polyester resin
4. **Reinforcement Layer:** Thickening of fibreglass threading for additional strength
5. **Inner winding layer:** Further fibreglass threading for higher pressure strength
6. **Surface finishing:** UV screen coating for resistance against UV light and excellent surface finishing

Minder Filter are 100% tested with international and improved Minder standard to to ensure filters are able to withstand up to it's maximum pressure and also for any possible leakage.

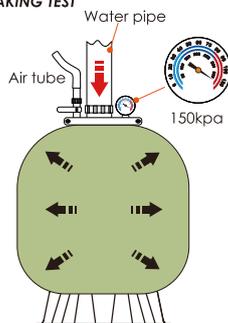
1. **Internal fibreglass layer:** Tested at operating pressure
2. **Completed filters:** Tested at maximum pressure

Testing method



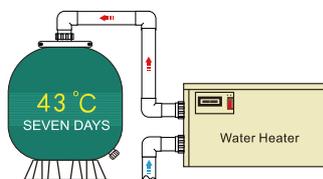
Additional MINDER test standard

WATER LEAKING TEST



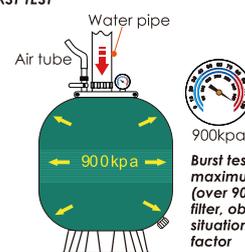
1. Test for inner tank before winding fibreglass and tested at 400kpa, the unit must be passed pressure successfully at 150kpa for 5 minutes

HEAT - RESISTANT TEST



2. Test the unit at 43°C temperature for 7 days, be subjected to heat - resistant character used for swimming pools, spas/Hal tubs

BURST TEST



- Burst test to exam the maximum pressure (over 900kpa) on pressure filter, observe temperal situation and analyze factor**
- Situation A**
Pressure filter under 28 diameter, the cover O'ring move place and air bleed, thus release pressure, ni crack on tank body or the plastic ring on the top mount that inserted into fibreglass, which is also a part might cause leaking. If put the O'ring back in the proper position, test can be performed again
- Situation B**
Pressure filter above 32 diameter, water leaking from bottom of filter and air bleed, no crack on the sides. It happen based on production technology by no winding fibreglass on that side

Features

- Bio-resistant.** Prevents bacterial growth in the filter bed;
- Fine filtration.** 50% more surface area than transitional sand;
- Water saving.** UFG is 20% lighter than sand thus save 10% of water during backwash;
- Less chemical.** Reduced water consumption means less chemical added;
- Last longer.** Replacement period up to 10 years;
- 100% Virgin Material.** Not from recycle yard.



THE NEXT GEN FILTER MEDIA

Ultra-Filtration Glass is a direct replacement for sand, improving the performance of sand filters without having to replace existing units.

Application

- Swimming pools
- Aquariums & Aquaculture
- Water treatment and filtration equipment

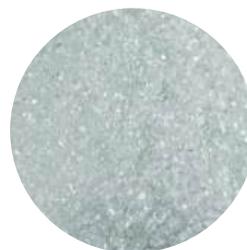
Product Name	Code	Grade	Kg/Bag
UFG	22358	0.5 - 1.0mm	25KG
UFG	22359	1.0 - 2.0mm	25KG



Feature	UFG	Quartz Sand
Filtration Precision	15 microns	30-40 microns
Replacement Cycle	6-8 years	3-5 years
Density	1759 KG/m ²	1387 KG/m ²
Average Backwash Water	250L	180L
Caking Rate (Heated Pool)	Lower	Higher



Designed for Windmill Lateral



UFG



QUARTZ SAND

MINDER'S NEW MEDIA FILTER, WITH AUTO VALVE

2 YEARS
WARRANTY

SMART SPEED ADJUSTMENT

High when backwash, Low at night time.

SMART WASH

Backwash the filter with a touch of a button, easy.

MOTORISED ROTOR

Change valve position without a handle.

BUILT-ON PRESSURE SENSOR

Backwash automatically when tank pressure is high.

5-INCH LCD TOUCH SCREEN

Display and control with ease.

AutoWash OS

User friendly interface.

WEATHER PROOF CASING

Sealed casing for weather proofing.



► **Patented**



SPECIFICATIONS

MOUNTING CONFIGURATION: top or side

CONNECTIONS: 1.5" / 2" / 2.5"

AUTO-WASH FUNCTION BY: pressure switch, timer or one-touch

ADJUSTABLE PRESSURE SWITCH: 30KPA - 200KPA

MAX. TIMER WASH: 1 wash per day, 7 days schedule

ADJUSTABLE WASH TIME: 5 - 120 sec

PUMP TIMER: 7 days schedule, 2 cycles per day, speed adjustable

AUTO PROTECTION: valve to off position before system shut-down

SCREEN: 5" LCD. resistive touch-screen

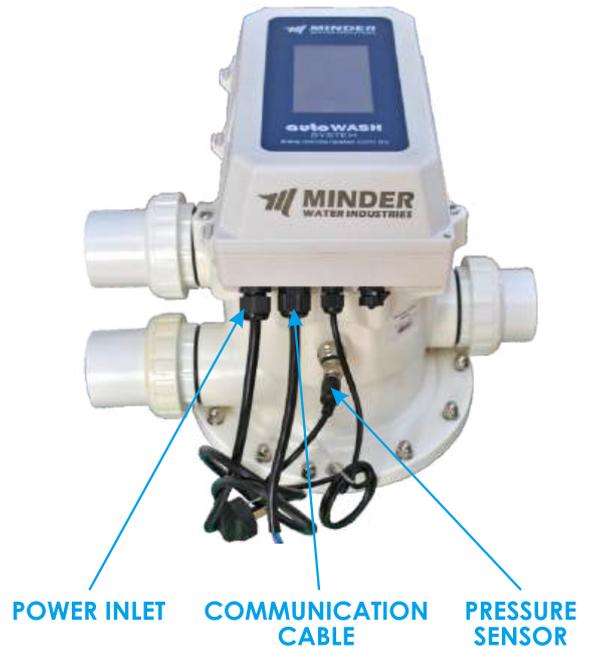
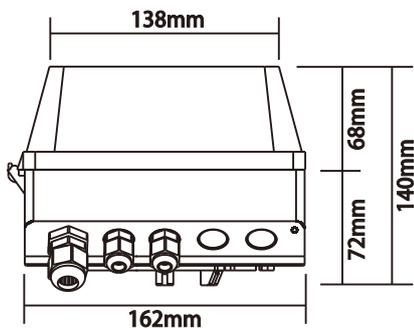
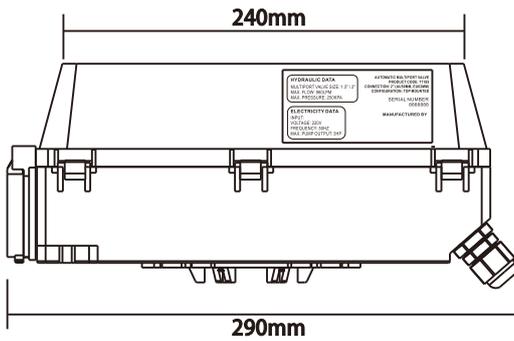
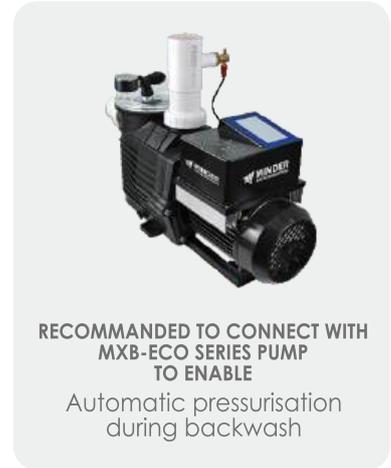
PRESSURE SENSOR ACCURACY: +/- 3KPA

MAX WORKING PRESSURE: 250KPA

POWER VOLTAGE INPUT: 220V @ 50HZ

POWER VOLTAGE OUTPUT: 220V @ 50HZ

IP RATING: 65



MODEL	CODE	VOLTAGE	OUTPUT POWER	CONFIGURATION
		V	HP	
EV1.5	20631	110 220	2.2	1.5" TOP MOUNTED
EVS1.5	77962			1.5" SIDE MOUNTED
EVS2.0	77963			2.0" SIDE MOUNTED
EV2.0	71185			2.0" TOP MOUNTED

No standalone purchase. Customers must buy in conjunction with filters.



► Patented

Features

- Even water distribution that utilise the filtration area;
- 0.4mm slot, suitable for glass filtration media such as AFM;
- Ultimate backwash result;
- Special design to fit 1.5", 2" and 2.5" MPV to maxmise flow rate;
- Manufactured by Ultra-sonic welding technique - no sand leak.



UFG

Ultra-Filtration Glass

Special filter material

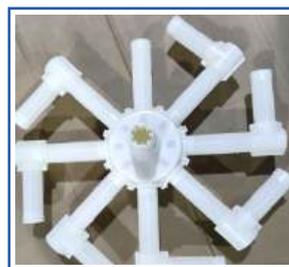
Minder's windmill lateral is specifically designed to maximise flow rate and backwash effectiveness. The system allows superior water distribution across the entire filtration area and thus bring the best water to your pool.



M14/MS18



M16/M18/MS21



M21/M25/M25B
MS25/MS25B



M28/M28B
MS28/MS28B



MS30/MS32



M30/M32/M36/M40/M44
MS36/MS40/MS44



M48/M56/MS48/MS56



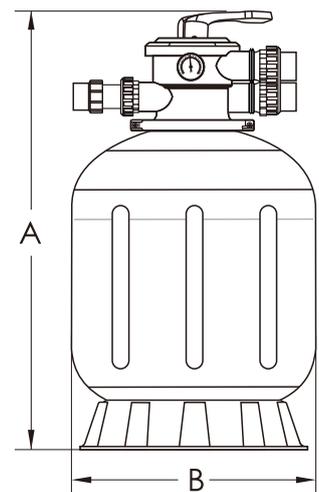
Minder's X series is manufactured using one-piece blow-moulded technology. Greener and safer for you and your pool water.

Operating Limits

Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Material

Tank: HDPE
 MPV: ABS
 Clamp: PA66
 Base: PP



Specification

MODEL	CODE	MULTIPOINT VALVE UNION SIZE		HEIGHT	TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)
		2.5bar	IMPERIAL	METRIC	A			B	m ³ /h		
X16	72871	1.5	50mm	770	400	0.13	48	6	105	290	30
X18	72872			820	450	0.16		8	133	300	40



X series is approved by "Greener Production" scheme

Cleaner Production (CP) Scheme is an adoption of clean production technologies to reduce emissions and achieve greater energy efficiency.

Q SERIES TOP MOUNTED LOW PRESSURE



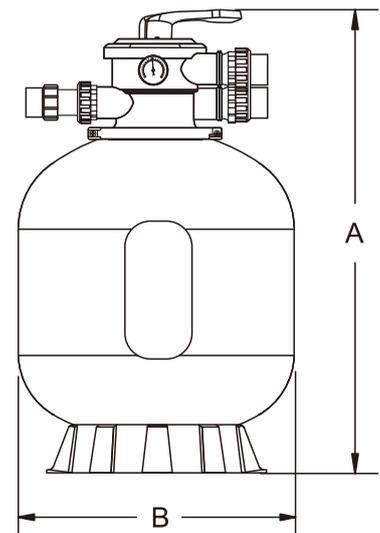
Minder's Q series is manufactured using one-piece blow-moulded technology. Low pressure operation means it is more affordable to everyone.

Operating Limits

Maximum water temperature	43 °C
Operating Pressure	1.0bar
Maximum Pressure	2.5bar

Material

Tank: HDPE
MPV: ABS
Clamp: PA66
Base: PP



Specification

MODEL	CODE	MULTIPOINT VALVE UNION SIZE		HEIGHT A	TANK Ø B	FILTRATION AREA m ²	DESIGNED VELOCITY m ³ /h/m ²	MAX FLOW RATE		MEDIA BED DEPTH mm	SILICA SAND (kg) 1-2mm
		2.5bar	IMPERIAL					METRIC	mm		
Q21	72865	1.5	50mm	850	550	0.24	48	12	192	340	85
Q25	72866			980	650	0.33		16	270	400	155



Q series is approved by "Greener Production" scheme

Cleaner Production (CP) Scheme is an adoption of clean production technologies to reduce emissions and achieve greater energy efficiency.



M Series filter is MINDER's innovative and cost-efficient design for domestic filtration system. The filter comes with top-mounted multiport valve and MINDER's special cross-winding bobbin-wound thread which provide more durable and long life to the filter body than other filter types in the market.



Features & Advantages

- 100% factory tested according to international standard and MINDER improved standard.
- Easy to use durable 6-ways multiport valve fitted with angle adjustable union to prevent pipe breakage during handling.
- Materials used are dependable and suitable for all-weather performance.
- Dual layers fibreglass inner shell with UV resistant bobbin wound reinforced fibreglass surface allows the filter to work under direct sunlight.
- 5-15years life-time.

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Warranty

Fittings	1 year
Filter Tank	1 year

Optional Components

- Filter Clean™ - Chemical Tablet Feeder.
- Vinyl-ester internal coating

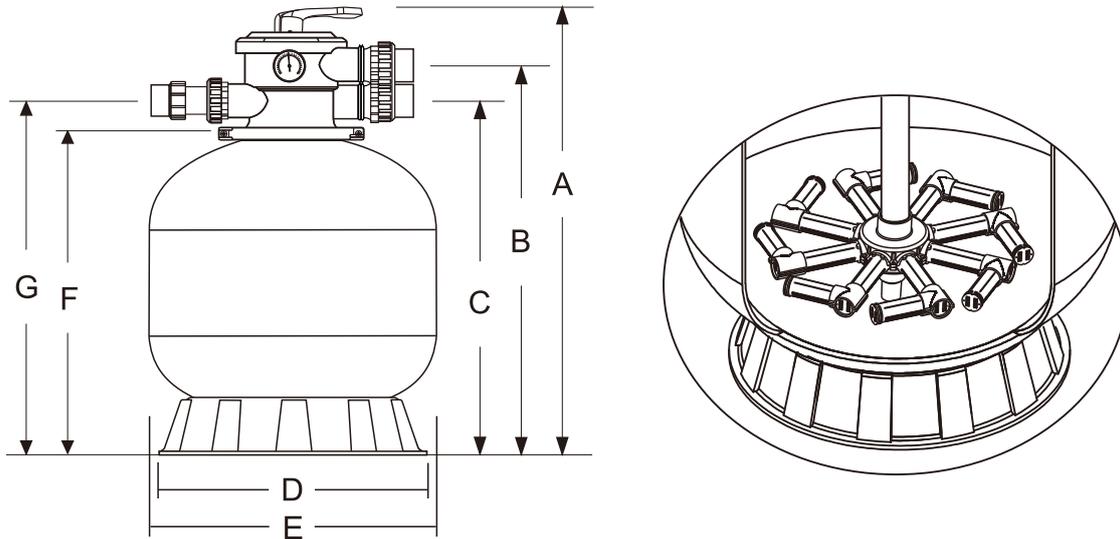
M SERIES TOP MOUNTED FILTER

MINDER CLASSIC™
MEDIA FILTER



Specification

MODEL	CODE	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)
		2.5bar	IMPERIAL	METRIC	mm		m ²	m ³ /h ²	m ³ /h	lpm
V1.5 multiport valve with union size 1.5" / 50mm										
M14	70049			350	0.10		5	80	240	20
M16	70050			400	0.13		6	105	290	30
M18	70051	1.5"	50mm	450	0.16	48	8	133	300	40
M21	70052			550	0.24		12	192	340	85
M25	70054			650	0.33		16	270	400	155
M28	70056			700	0.38		19	320	460	210
V2.0 multiport valve with union size 2.0" / 63mm										
M25B	70055			650	0.33		17	290	400	155
M28B	70057			700	0.38		22	365	460	210
M30	70058			750	0.44		23	390	490	225
M32	70059			800	0.50		25	420	520	250
M36	70060	2.0"	63mm	900	0.64	48	30	500	600	350
M40	70061			1000	0.79		33	550	665	600
M44	70062			1100	0.95		38	630	730	900
M48	70063			1200	1.13		42	700	800	1150
M56	70064			1400	1.54		57	950	870	1800
V2.5 multiport valve with union size 2.5" / 75mm										
M40B	70647			1000	0.79		41	683	665	600
M44B	70648	2.5"	75mm	1100	0.95	48	50	833	730	900
M48B	70649			1200	1.13		59	975	800	1150
M56B	70650			1400	1.54		62	1033	870	1800



Dimensions

MODEL	A	B	C	D	E	F	G
	mm						
V1.5 multiport valve with union size 1.5" / 50mm							
M14	680	550	490	330	346	431	490
M16	775	690	620	395	410	550	620
M18	825	740	670	395	454	600	670
M21	867	770	700	395	534	630	700
M25	985	900	830	490	635	760	830
M28	1017	863	783	490	700	775	831
V2.0 multiport valve with union size 2.0" / 63mm							
M25B	1050	920	840	490	635	760	835
M28B	1080	926	846	490	700	780	846
M30	1100	950	870	700	750	800	870
M32	1180	1026	946	700	820	880	946
M36	1285	1131	1051	700	920	950	1051
M40	1406	1252	1172	700	1016	1106	1172
M44	1480	1350	1270	930	1092	1210	1270
M48	1500	1450	1370	930	1210	1310	1370
M56	1615	1565	1485	1200	1404	1425	1485
V2.5 multiport valve with union size 2.5" / 75mm							
M40B	1486	1265	1173	700	1016	1106	1173
M44B	1560	1369	1277	930	1092	1210	1277
M48B	1580	1469	1377	930	1210	1310	1377
M56B	1695	1584	1492	1200	1404	1425	1492

XS SERIES

SIDE MOUNTED HIGH PRESSURE MEDIA FILTER



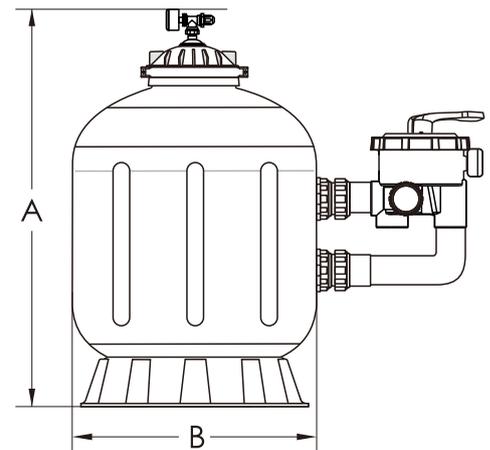
Minder's XS series is manufactured using one-piece blow-moulded technology. Greener and safer for you and your pool water.

Operating Limits

Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Material

Tank: HDPE
 MPV: ABS
 Clamp: PA66
 Base: PP



Specification (options are available)

MODEL	CODE	MULTIPOINT VALVE UNION SIZE		HEIGHT	TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)
		2.5bar	IMPERIAL	METRIC	A			B	m ³ /h		
XS18	72873	1.5	50mm	715	450	0.16	48	8	133	300	40



XS series is approved by "Greener Production" scheme

Cleaner Production (CP) Scheme is an adoption of clean production technologies to reduce emissions and achieve greater energy efficiency.



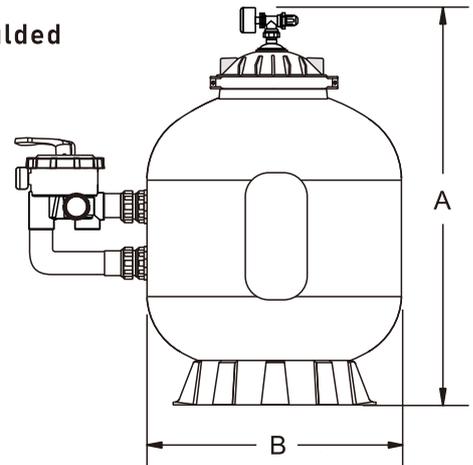
Minder's QS series is manufactured using one-piece blow-moulded technology. Low pressure operation means it is more affordable to everyone.

Operating Limits

Maximum water temperature	43 °C
Operating Pressure	1.0bar
Maximum Pressure	2.5bar

Material

Tank: HDPE
 MPV: ABS
 Clamp: PA66
 Base: PP



Specification

MODEL	CODE	MULTIPOINT VALVE UNION SIZE		HEIGHT A	TANK Ø B	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)
		2.5bar	IMPERIAL					METRIC	mm		
QS21	72867	1.5	50mm	745	550	0.22	48	12	200	340	85
QS25	72868			875	650	0.33		16	267	400	155



QS series is approved by "Greener Production" scheme

Cleaner Production (CP) Scheme is an adoption of clean production technologies to reduce emissions and achieve greater energy efficiency.

MS SERIES SIDE MOUNTED FILTER

MINDER CLASSIC™
MEDIA FILTER



MS Series filter is MINDER's innovative and professional design for domestic filtration system. The filter comes with side-mounted multiport valve and MINDER's special cross-winding bobbin-wound thread technology which provide more durable and long life to the filter body than other filter types in the market.



Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Features & Advantages

- 100% factory tested according to international standard and MINDER improved standard.
- Automatic air release valve enables automatic release of trapped air during filter operation or negative pressure during water drain.
- Easy to use durable 6-ways multiport valve fitted with angle adjustable union to prevent pipe breakage during handling.
- Materials used are dependable and suitable for all-weather performance.
- Dual layers fibreglass inner shell with UV resistant bobbin wound reinforced fibreglass surface allows the filter to work under direct sunlight.
- 5-15years life-time.

Warranty

Fittings	1 year
Filter Tank	1 year

Optional Components

- Nozzle collection system
- The advanced model (4.0 bar) is only compatible with pipe fittings
- Vinyl-ester internal coating

Optional Nozzle System

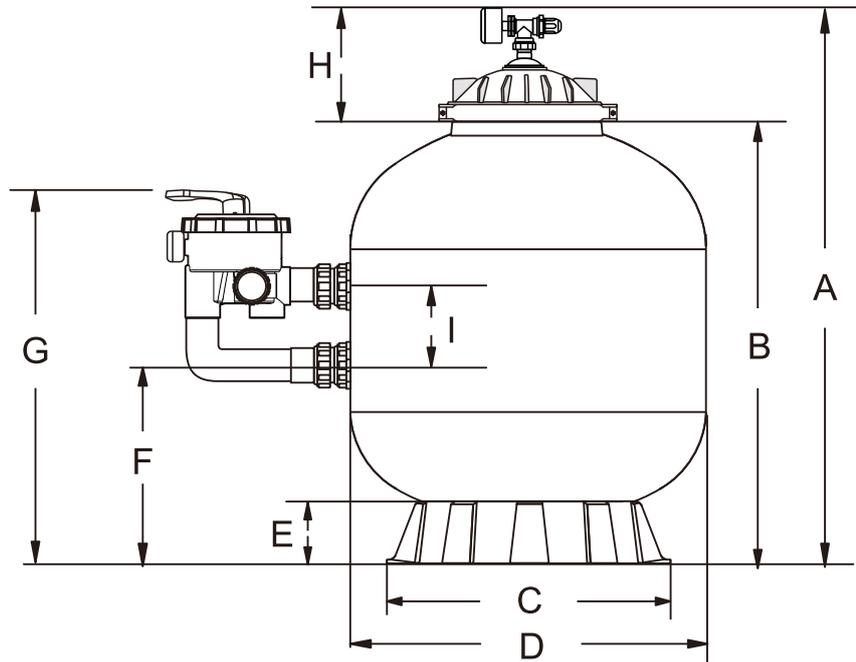


Specification

MODEL	CODE	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)
		2.5bar	IMPERIAL	METRIC	mm	m ²	m ³ /h/m ²	m ³ /h	lpm	mm
VS1.5 multiport valve with union size 1.5" / 50mm										
MS18	70065			450	0.16		8	133	300	40
MS21	70066		1.5"	550	0.22	48	12	200	340	85
MS25	70067			650	0.33		16	267	420	155
MS28	70068			700	0.38		19	317	460	210
VS2.0 multiport valve with union size 2.0" / 63mm										
MS25B	70652			650	0.33		18	325	420	155
MS28B	70069			700	0.38		20	333	460	210
MS30	70070			750	0.44		23	390	485	225
MS32	70071			800	0.50		25	417	500	250
MS36	70072		2.0"	900	0.64	48	30	500	570	350
MS40	70073			1000	0.79		33	550	610	600
MS44	70074			1100	0.98		38	633	660	900
MS48	70075			1200	1.13		42	700	710	1150
MS56	70076			1400	1.54		57	950	810	1800
VS2.5 multiport valve with union size 2.5" / 75mm										
MS40B	70653			1000	0.79		41	683	610	600
MS44B	70654		2.5"	1100	0.98	48	50	833	660	900
MS48B	70655			1200	1.13		58	967	710	1150
MS56B	70656			1400	1.54		62	1033	810	1800

MS SERIES SIDE MOUNTED FILTER

MINDER CLASSIC™
MEDIA FILTER



Dimensions

MODEL	A	B	C	D	E	F	G	H	I
	mm								
VS1.5 multiport valve with union size 1.5" / 50mm									
MS18	720	650	395	454	75	239	635	155	125
MS21	757	635	395	541	90	254	576	155	125
MS25	880	760	490	635	90	310	634	155	125
MS28	888	775	490	705	90	350	675	155	125
VS2.0 multiport valve with union size 2.0" / 63mm									
MS28B	908	780	490	705	90	322	744	175	195
MS30	970	800	700	750	125	350	772	175	195
MS32	1053	878	700	821	125	361	786	175	195
MS36	1225	1050	700	921	125	405	846	175	195
MS40	1243	1068	700	1016	150	475	900	175	195
MS44	1315	1140	930	1092	150	530	960	175	195
MS48	1415	1240	930	1210	170	635	1065	175	195
MS56	1590	1415	1200	1404	200	635	1065	175	195
VS2.5 multiport valve with union size 2.5" / 75mm									
MS40B	1243	1068	700	1016	150	475	864	175	195
MS44B	1315	1140	930	1092	150	530	919	175	195
MS48B	1415	1240	930	1210	170	635	1024	175	195
MS56B	1590	1415	1200	1404	200	635	1024	175	195



G Series filter is MINDER's laminated (gel-coat) filter range for domestic filtration system. It is designed and built with consideration of the best quality and elegant outlook. The series comes with top-mounted multiport valve with either 1.5" or 2.0" .



Features & Advantages

- 100% factory tested according to international and MINDER improved standard.
- Easy to use durable 6-ways multiport valve fitted with angle adjustable union to prevent pipe breakage during handling.
- Materials used are dependable and suitable for all-weather performance.
- Dual layers fibreglass inner shell with UV resistant laminated (Gel coat) surface allows the filter to work under direct sunlight.

Warranty

Fittings	1 year
Filter Tank	1 year

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Optional Components

- Filter Clean™ - Chemical Tablet Feeder.
- Vinyl-ester internal coating

G SERIES

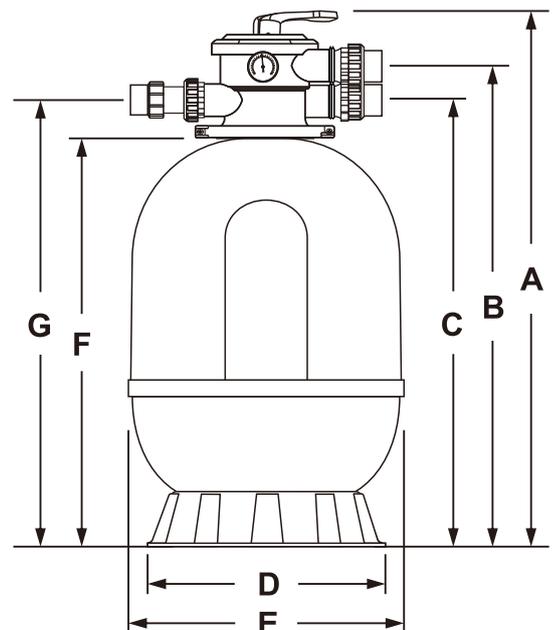
TOP MOUNTED LAMINATED FILTER

Specification

MODEL	CODE	MULTIPOINT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)	
		2.5bar	IMPERIAL	METRIC	mm		m ²	m ³ /h	lpm	mm	1-2mm
V1.5 multiport valve with union size 1.5" / 50mm											
G16	70109				420	0.13		6	100	290	30
G18	70110				470	0.16		8	133	300	40
G21	70111		1.5"	50mm	525	0.23	48	12	200	340	85
G25	70112				630	0.33		16	267	400	155
G28	70113				700	0.38		19	317	460	210
V2.0 multiport valve with union size 2.0" / 63mm											
G28B	70732				700	0.38		20	333	460	210
G32	70115		2.0"	63mm	780	0.50	48	25	417	520	250
G36	70116				900	0.65		30	500	600	350

Dimensions

MODEL	A	B	C	D	E	F	G
	mm						
V1.5 multiport valve with union size 1.5" / 50mm							
G16	840	740	670	395	420	600	670
G18	870	770	700	395	470	630	700
G21	940	825	770	395	525	700	770
G25	1040	940	870	490	630	800	870
G28	1120	1020	950	490	700	880	950
V2.0 multiport valve with union size 2.0" / 63mm							
G28B	1180	1040	960	490	700	880	955
G32	1270	1100	1040	700	780	970	1045
G36	1350	1210	1130	700	900	1050	1125





GS Series filter is MINDER's innovative and elegant design for domestic filtration system. The series comes with side-mounted multiport valve with either 1.5" or 2.0".



Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Features & Advantages

- 100% factory tested according to international and MINDER improved standard.
- Automatic air release valve enables automatic release of trapped air during filter operation or negative pressure during water drain.
- Easy to use durable 6-ways multiport valve fitted with angle adjustable union to prevent pipe breakage during handling.
- Materials used are dependable and suitable for all-weather performance.
- Dual layers fibreglass inner shell with UV resistant gel-coated surface allows the filter to work under direct sunlight.
- 5-10 years life-time.

Warranty

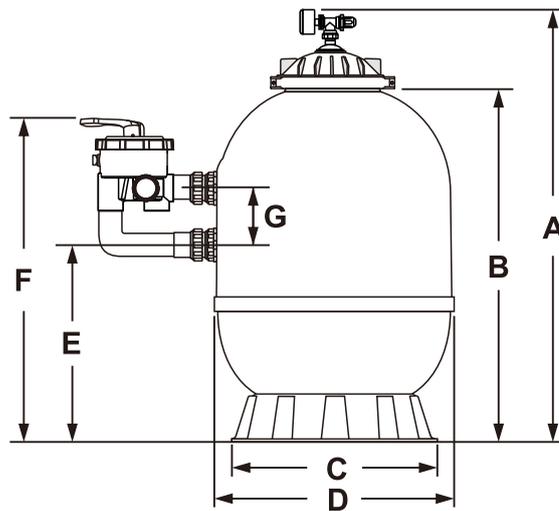
Fittings	1 year
Filter Tank	1 year

Optional Components

- Filter Clean™ - Chemical Tablet Feeder.
- Vinyl-ester internal coating.

Specification

MODEL	CODE	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)	
		2.5bar	IMPERIAL	METRIC	mm	m ²	m ³ /h/m ²	m ³ /h	lpm	mm	1-2mm
VS1.5 multiport valve with union size 1.5" / 50mm											
GS18	70117				470	0.16		8	133	300	40
GS21	70118		1.5"	50mm	525	0.22	48	12	200	340	85
GS25	70119				630	0.33		16	267	420	155
GS28	70120				700	0.38		19	317	460	210
VS2.0 multiport valve with union size 2.0" / 63mm											
GS28B	70736				700	0.38		20	333	460	210
GS32	70122		2.0"	63mm	780	0.50	48	25	417	500	250
GS36	70123				900	0.64		30	500	570	350



Dimensions

MODEL	A	B	C	D	E	F	G
	mm						
VS1.5 multiport valve with union size 1.5" / 50mm							
GS18	785	630	395	470	370	690	125
GS21	855	700	395	525	410	720	125
GS25	955	800	490	630	460	780	125
GS28	1035	880	490	700	500	800	125
VS2.0 multiport valve with union size 2.0" / 63mm							
GS28B	1055	880	490	700	500	925	195
GS32	1145	970	700	780	650	1075	195
GS36	1225	1050	700	900	700	1125	195



MH Series filter is designed and built with higher media bed depth requirement for an improved filtration performance. With MINDER's innovative cross-winding bobbin wound technology, the filter tank is greatly improved for long life. The MH filter comes with top-mounted multiport valve with union size 1.5" or 2".



Features & Advantages

- 100% factory tested according to international and MINDER improved standard.
- Easy to use durable 6-ways multiport valve fitted with angle adjustable union to prevent pipe breakage during handling.
- Large pressure sand / water drain for rapid winterizing or servicing.
- Materials used are dependable and suitable for all-weather performance.
- Dual layers fibreglass inner shell with UV resistant bobbin wound reinforced fibreglass surface allows the filter to work under direct sunlight.
- 5-10 years life-time.

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Warranty

Fittings	1 year
Filter Tank	1 year

Optional Components

- Internal Sight glass
- Filter Clean™ - Chemical Tablet Feeder.
- Vinyl-ester internal coating

MH SERIES

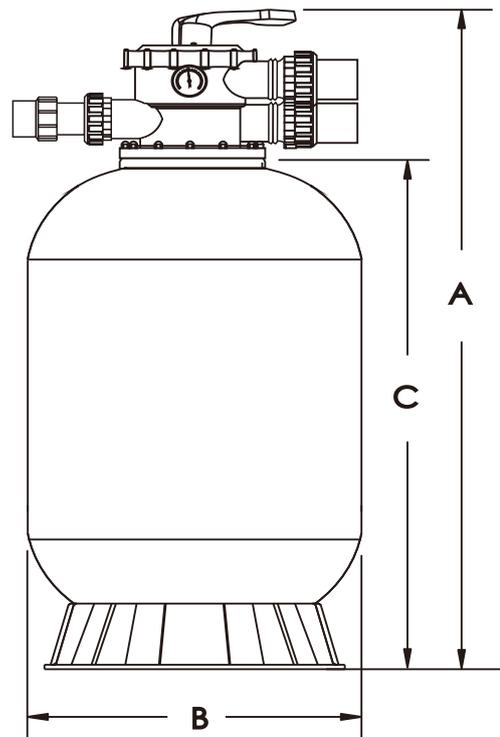
TOP MOUNTED DEEP BED FILTER

Specification

MODEL	CODE	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)
		2.5bar	IMPERIAL	METRIC	mm		m ²	m ³ /h	lpm	mm
V1.5 multiport valve with union size 1.5" / 50mm										
MH16	71628	1.5"	50mm	400	0.13	48	6	105	700	53
MH18	71629	1.5"	50mm	450	0.16		8	133	700	63
MH21	71630	1.5"	50mm	550	0.22		12	192	800	125
MH25	71631	1.5"	50mm	650	0.30		16	270	800	230
MH28	71632	1.5"	50mm	700	0.38		19	320	850	268
V2.0 multiport valve with union size 2.0" / 63mm										
MH28B	71633	2.0"	63mm	700	0.38	48	20	333	850	268
MH32	71634	2.0"	63mm	800	0.50		25	420	850	350
MH36	71635	2.0"	63mm	900	0.64		30	500	850	500
MH40	71636	2.0"	63mm	1000	0.79		33	550	870	750
MH48	71638	2.0"	63mm	1200	1.13		42	700	920	1300

Dimensions

MODEL	A	B	C
V1.5 multiport valve with union size 1.5" / 50mm			
MH16	1130	400	900
MH18	1130	450	900
MH21	1130	550	900
MH25	1310	650	1080
MH28	1380	700	1150
V2.0 multiport valve with union size 2.0" / 63mm			
MH28B	1420	700	1150
MH32	1420	800	1150
MH36	1500	900	1150
MH40	1700	1000	1350
MH48	1800	1200	1450





MSH Series filter is designed and built with higher media bed depth requirement for an improved filtration performance. With MINDER's innovative cross-winding bobbin wound technology, the filter tank is greatly improved for long life. The MSH filter comes with side-mounted multiport valve with union size 1.5" or 2".



Features & Advantages

- 100% factory tested according to international and MINDER improved standard.
- Easy to use durable 6-ways multiport valve fitted with angle adjustable union to prevent pipe breakage during handling.
- Transparent cover allows easy inspection of the sand bed.
- Top diffuser ensure even distribution of water over the top of the sand bed.
- Automatic air release valve enables automatic release of trapped air during filter operation or negative pressure during water drain.
- Materials used are dependable and suitable for all-weather performance.

Warranty

Fittings	1 year
Filter Tank	1 year

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Optional Components

- The advanced model (4.0 bar) is only compatible with pipe fittings (with an additional winding layer)
- Vinyl-ester internal coating
- Nozzle collection system

MSH SERIES

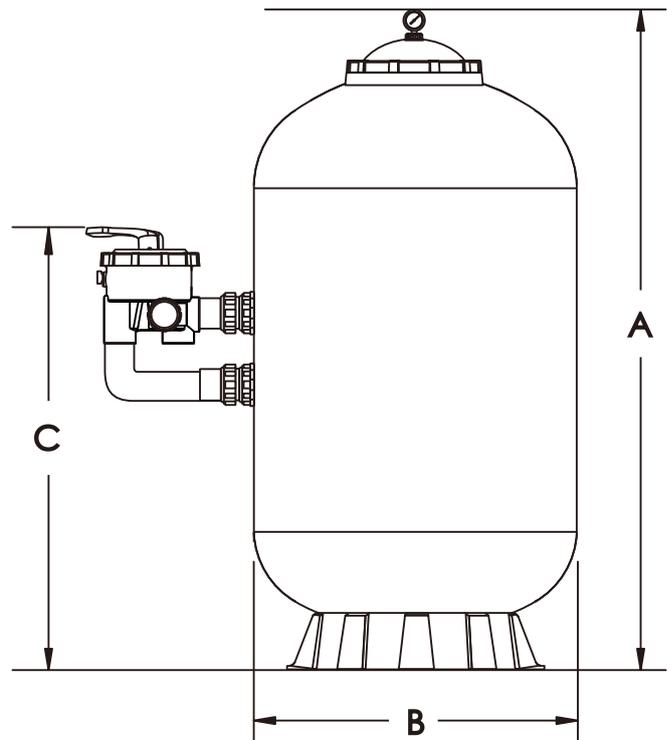
SIDE MOUNTED DEEP BED FILTER

Specification

MODEL	CODE	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		MEDIA BED DEPTH	SILICA SAND (kg)	
		2.5bar	IMPERIAL	METRIC	mm	m ²	m ³ /h/m ²	m ³ /h	lpm	mm	1-2mm
VS1.5 multiport valve with union size 1.5" / 50mm											
MSH21	71640				550	0.22		12	192	800	125
MSH25	71641	1.5"	50mm		650	0.30	48	16	270	800	230
MSH28	71642				700	0.38		19	320	850	268
VS2.0 multiport valve with union size 2.0" / 63mm											
MSH28B	71643				700	0.38		20	333	850	268
MSH32	71644				800	0.50		25	420	850	350
MSH36	71646	2.0"	63mm		900	0.64	48	30	500	850	500
MSH40	71648				1000	0.79		33	550	870	750
MSH48	71652				1200	1.13		42	700	920	1300

Dimensions

MODEL	A	B	C
VS1.5 multiport valve with union size 1.5" / 50mm			
MSH21	1000	550	500
MSH25	1180	650	600
MSH28	1250	700	750
VS2.0 multiport valve with union size 2.0" / 63mm			
MSH28B	1250	700	750
MSH32	1250	800	800
MSH36	1400	900	850
MSH40	1500	1000	900
MSH48	1800	1200	1050





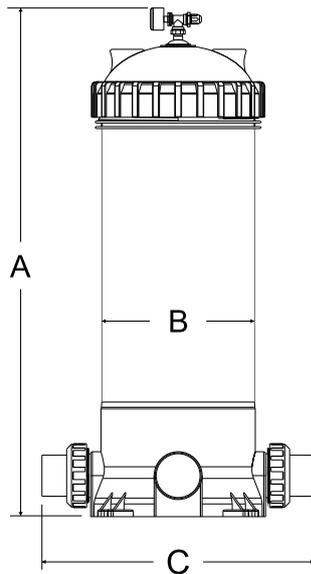
Features & Advantages

- Max temperature: 45 °C
- Maximum Pressure: 2.8bar
- Automatic air bleed available
- Heavy duty and UV resistant tank

Warranty

Filter Tank

1 year



Specification & Dimensions

CODE	MODEL	SURFACE AREA	MAX FLOW	DIMENSION			IN / OUTLET	ELEMENT
		sq	lpm	A	B	C		
90657	CM50	50ft	205	530	235	430	1.5"	Single Element
90658	CM75	75ft	270	715	235	430	1.5"	
90659	CM100	100ft	340	895	235	430	1.5"	
90660	CM150	150ft	450	1065	235	430	1.5"	
90661	CM175	175ft	540	1255	235	430	1.5"	
90662	CM225	225ft	670	1435	235	430	1.5"	Dual Element

ECOLOGICAL FILTRATION EQUIPMENT

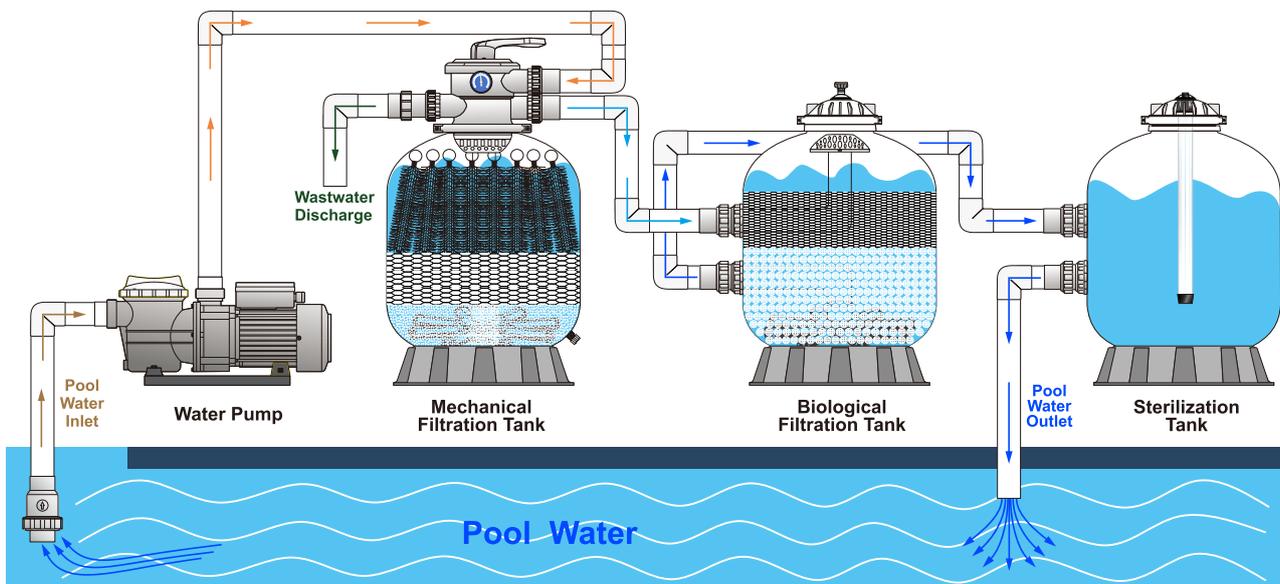


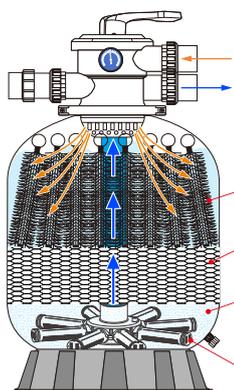


【 Aquarium Filtration Equipment 】 ▶ Patented

Aquarium Filtration Equipment															
Code	Suitable for Pool Water	Cycle period	Mechanical Filtration Tank Equipped with Multi-Directional Valve			Biological Filtration Tank			Sterilization Tank		Water Pump		Pipe Diameter (mm)		
			Tons	Tank Model	Filter Media	Set Filtration Equipment	Tank Model	Filter Media	Set Filtration Equipment	Tank Model	UV Lamp	Type	Flow Rate	Inlet	Outlet
75314	FP10	5-10	1 Hour	X16	UFG Ultra-Filtration Glass & Brushes & Coarse Filter Cotton	Minder Windmill Lateral I Type	XS18	Fine Filter Cotton & Various Mineral Filter Materials	Minder Windmill Lateral I Type	XS18	10W Single Tube	MVP050	10000L/H	50	50
75315	FP20	10-20	1 Hour	X18	UFG Ultra-Filtration Glass & Brushes & Coarse Filter Cotton	Minder Windmill Lateral I Type	XS18	Fine Filter Cotton & Various Mineral Filter Materials	Minder Windmill Lateral I Type	XS18	30W Double Tube	MVP075	20000L/H	50	50
75316	FP30	25-30	1 Hour	X18	UFG Ultra-Filtration Glass & Brushes & Coarse Filter Cotton	Minder Windmill Lateral I Type	XS18	Fine Filter Cotton & Various Mineral Filter Materials	Minder Windmill Lateral I Type	XS18	30W Double Tube	MVP100	30000L/H	50	50
75317	FP40	35-40	1 Hour	M21	UFG Ultra-Filtration Glass & Brushes & Coarse Filter Cotton	Minder Windmill Lateral I Type	QS21	Fine Filter Cotton & Various Mineral Filter Materials	Minder Windmill Lateral I Type	QS21	40W Double Tube	MXB100	40000L/H	50	50
75318	FP50	45-50	1 Hour	M25	UFG Ultra-Filtration Glass & Brushes & Coarse Filter Cotton	Minder Windmill Lateral I Type	QS25	Fine Filter Cotton & Various Mineral Filter Materials	Minder Windmill Lateral I Type	QS25	60W Double Tube	MXB150	50000L/H	50	50

Optional variable frequency pump, automatic valve

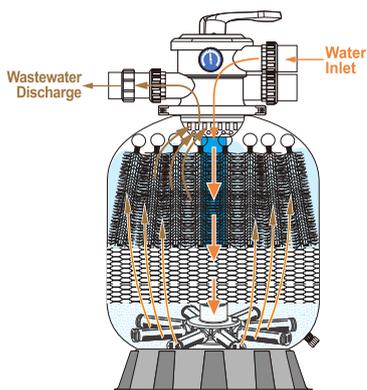




First Filtration—Mechanical Filtration Tank

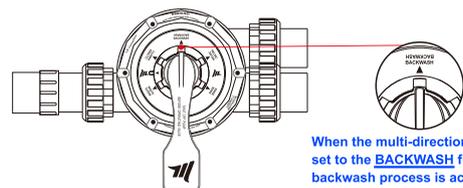
Equipped with UFG Ultra-Fine Filter Media, capable of filtering down to 20µm; enhances water quality.

- Layer 1—Brush Layer (Effectively intercepts fish waste, uneaten food, and other debris)
- Layer 2—Coarse Filter Cotton (Filters finer debris in the second layer, further improving water quality.)
- Layer 3—UFG Ultra-Fine Media (Filters down to 20µm) (Further enhances water quality by using UFG ultra-fine filtration) media to remove fine impurities, providing clean and clear water.)
- Layer 4—Windmill Lateral (Prevents the outflow of UFG filter media)

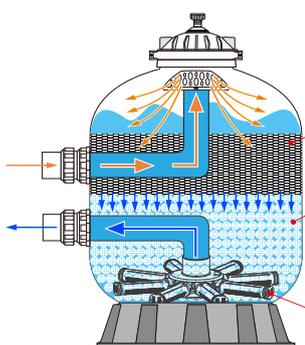


Mechanical Filtration Tank—Backwash Function

- Utilizes the backflow principle to clean impurities such as fish waste, uneaten food, algae, and other debris inside the tank.
- No need to disassemble the tank to clean difficult impurities like fuzz and filter cotton odors.
- Operates in a manner that ensures no water waste, no odor, and no pollution.
- Easy, safe, and convenient operation, saving time while keeping the process clean.



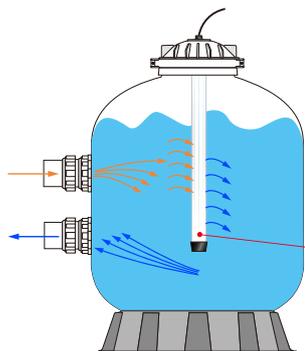
When the multi-directional valve is set to the **BACKWASH** function, the backwash process is activated.



Second Filtration—Biological Filtration Tank

An independent biological filtration tank, completely separated from the UV sterilization layer, effectively avoiding the UV disinfection lamp from killing beneficial nitrifying bacteria for the fish pond.

- First Stage—Fine Filter Cotton
Deeply filters harmful micro-substances and pollutants, providing thorough water purification.
- Second Stage—Various Mineral Filter Materials
 1. Uses various mineral biological filter media to cultivate nitrifying bacteria, increasing both their quantity and effectiveness.
 2. Nitrifying bacteria break down harmful substances such as ammonia salts and nitrites into harmless compounds, thereby improving water quality.
- Third Stage—Windmill Lateral
Prevents the outflow of impurities generated by the mineral filter media.



Third Filtration—Sterilization Tank

An independent UV sterilization tank, effectively slowing down the flow rate and significantly increasing the water retention time; (Short retention time may not completely eliminate viruses and bacteria in the water).

- UV Sterilization Lamp—High-Power UV Sterilization Lamp
 1. Effectively eliminates viruses, bacteria, and other microorganisms in the water.
 2. Provides sterilization, deodorization and odor removal.





Features & Advantages

- Excellent for mechanical and bio-filtration purpose.
- Works well for natural swimming pool, fish pond, aquarium and aquaculture.
- Able to attach air blower for high efficient back-washing.
- Comes with 6 ways multiport valve with laser engraved label, angle adjustable union and transparent lid.

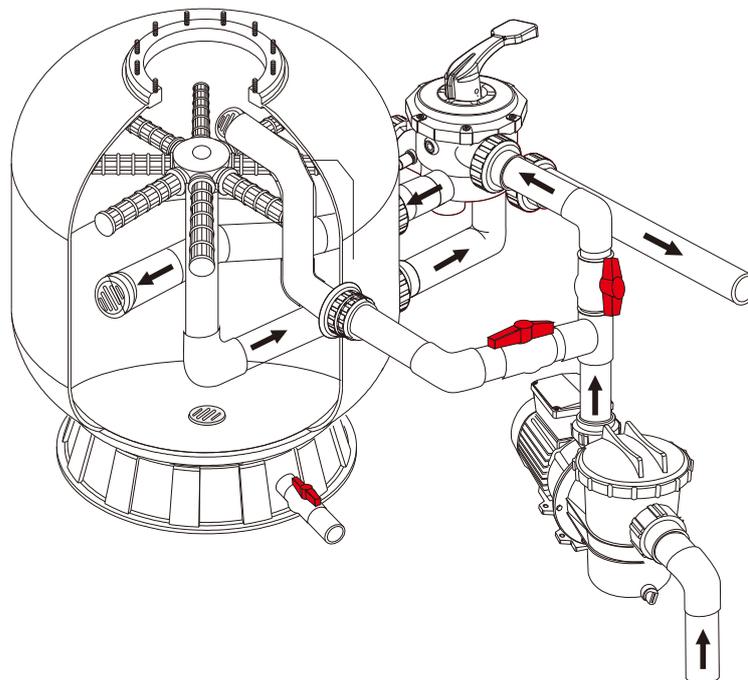
The bead filter holds bio media which acts as mechanical filtration by entrapping dirt particles. Furthermore, the bead media houses the nitrifying bacteria and is the primary site where biological nitrification occurs. Nitrifying bacteria process dissolved nitrogenous waste products excreted by the aquatic organisms being cultured. For natural swimming pool, a specific bacteria can be housed on bio media for filtration and sanitation of natural pool.

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Warranty

Fittings	1 year
Filter Tank	1 year



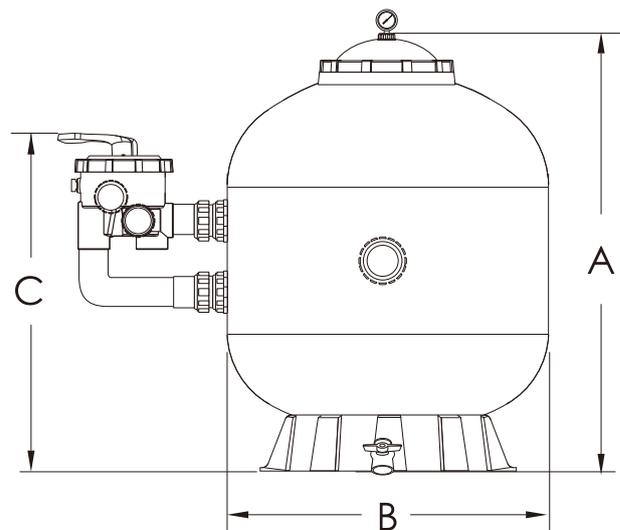
UF-MS SERIES BEAD FILTER

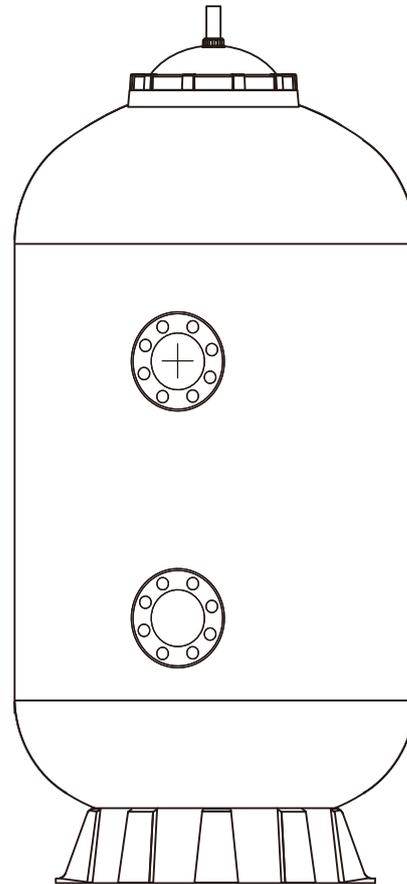
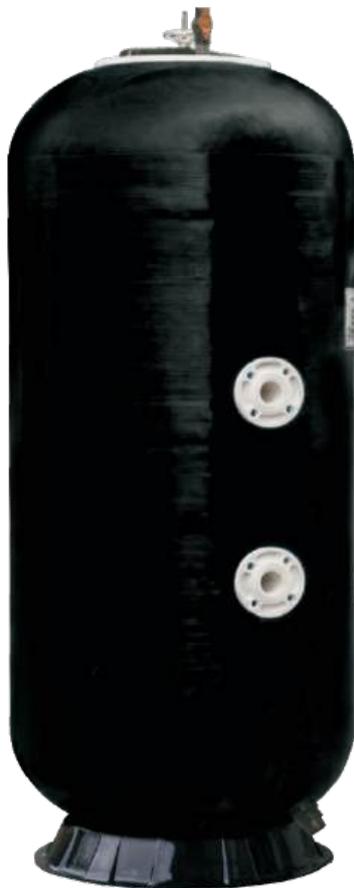
Specification

MODEL	CODE	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	DESIGNED VELOCITY	MAX FLOW RATE		FORM BEAD
	2.5bar	IMPERIAL	METRIC	mm	m ²	m ³ /h/m ²	m ³ /h	lpm	kg
VS1.5 multiport valve with union size 1.5" / 50mm									
UF-MS18	70077	1.5"	50mm	450	0.16	50	8	133	1
UF-MS21	70078			550	0.22		12	192	1.2
UF-MS25	70079			650	0.30		16	270	1.8
UF-MS28	70080			700	0.38		19	320	2.5
VS2.0 multiport valve with union size 2.0" / 63mm									
UF-MS28B	71048	2.0"	63mm	700	0.38	50	20	333	2.5
UF-MS30	70081			750	0.44		23	390	4
UF-MS32	70082			800	0.50		25	420	5
UF-MS36	70083			900	0.64		30	500	7.5
UF-MS40	70084			1000	0.79		40	667	10
UF-MS48	71057			1200	1.13		57	950	12
VS2.5 multiport valve with union size 2.5" / 75mm									
UF-MS36B	71761	2.5"	75mm	900	0.64	50	32	533	7.5
UF-MS48B	71762			1200	1.13		59	983	12

Dimensions

MODEL	A	B	C
VS1.5 multiport valve with union size 1.5" / 50mm			
UF-MS18	670	450	590
UF-MS21	710	550	630
UF-MS25	830	650	660
UF-MS28	895	700	690
VS2.0 multiport valve with union size 2.0" / 63mm			
UF-MS28B	895	700	750
UF-MS30	1000	750	800
UF-MS32	1030	800	900
UF-MS36	1130	900	930
UF-MS40	1230	1000	930
UF-MS48	1310	1200	990
VS2.5 multiport valve with union size 2.5" / 75mm			
UF-MS36B	1130	900	930
UF-MS48B	1310	1200	990





- 100% based on NSF50 & MINDER standard for quality testing.
- Maximum working pressure: 250kpa; Factory testing pressure: 400kpa.
- Anti-ozone corrosion coating.
- Suitable for different ozone sanitation system.
- Tailor-made available upon requested.

Specification

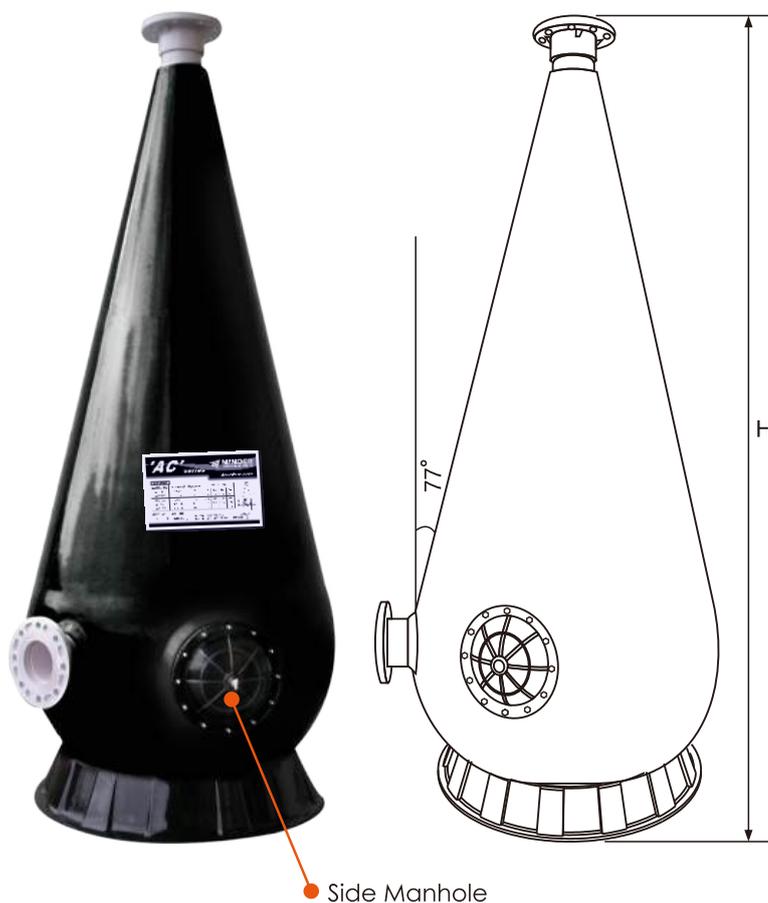
MODEL	CODE	TANK Ø (mm)	HEIGHT (mm)	NOZZIE SIZE (mm)	FLOW (m ³ /h)	EFFECTIVE VOLUME (m ³)	RESIDENCE TIME (s)
FC650	70969	621	1800	50	16	0.51	115
FC700	71655	705	1800	50	19	0.53	110
FC800	70097	821	1800	63	25	0.75	108
FC900	70455	921	2000	63	30	1.15	138
FC1000	70098	1016	2000	90	33	1.4	153
FC1200	70336	1200	2000	90	52	2	138
FC1400	70340	1400	2500	110	69	3.5	183
FC1600	73067	1600	2500	110	80	4.6	207
FC1800	73068	1800	3200	160	125	7.6	219
FC2000	73069	2000	3200	160	157	9.4	216

Oxygen Cone is

designed to optimize the saturation oxygen in water. Operating at only 10psi, oxygen cone can deliver water with a dissolved oxygen concentration above 25mg/l, which creates suitable environment for living animals in water.

With cost effective and performance efficiency, oxygen cone is widely used in aquaculture industry.

Installation and operation are simple. Please contact our sales representative for details.



● Side Manhole

Specification

MODEL	CODE	TANK Ø	HEIGHT H	INLET AND OUTLET	MAX FLOW RATE		MAX. WORKING PRESSURE
		mm	mm	mm	lpm	m ³ /h	psi
AC40	70091	400	1120	50	185	11	25
AC80	70092	600	1730	90	289	17.3	25
AC100	70093	860	2130	110	565	33.9	25
AC125	70942	1000	2720	140	742	44.52	25
AC150	70094	1200	3280	160	1157	69.42	25

Features & Advantages

- All model has a built-in UV sanitation system, which utilise retention time to kill germs and bacteria
- Unique foam generator with needle wheel impeller has 30% increase in effectiveness compare to traditional protein skimmer equipped with injectors
- Powered by high performance Minderspeed pump
- Large sight glass for ease of inspection
- Constructed with corrosion-free material therefore suitable for outdoor installation.



MINDER's **Protein Skimmer (Foam Fractionator)** is made of high grade glass fiber + resin and has a diameter of 400mm-2000mm (acceptable non-standard order System). MINDER uses the industry's leading stealth bubble device to achieve high efficiency and energy saving; widely used in aquariums, marine fish cylinder, factory aquaculture.

Protein skimmer is also known for foam fractionator, is a device used to remove organic compounds such as food and waste particles from water. It is most commonly used in commercial applications like municipal water treatment facilities, fish farmings and public aquariums.

Specification

MODEL	CODE	TANK Ø	HEIGHT	INLET	OUTLET	FLOW	RETENTION TIME
		mm				m ³ /h	sec
PS400	91009	400	2100	50	75	10.8	67
PS600	91010	600	2500	63	110	23.4	71
PS700	91011	700	2800	75	160	38.9	73
PS800	91012	800	3000	90	160	41.4	75
PS900	91013	900	3200	90	160	55.3	78
PS1000	91014	1000	3200	90	160	64.8	82
PS1200	91015	1200	3200	110	200	93.6	103
PS1400	91016	1400	3200	110	200	126	106
PS1600	91017	1600	3200	160	250	165.6	126
PS2000	91018	2000	3200	160	250	226.8	132



BIOLOGICAL FILTER

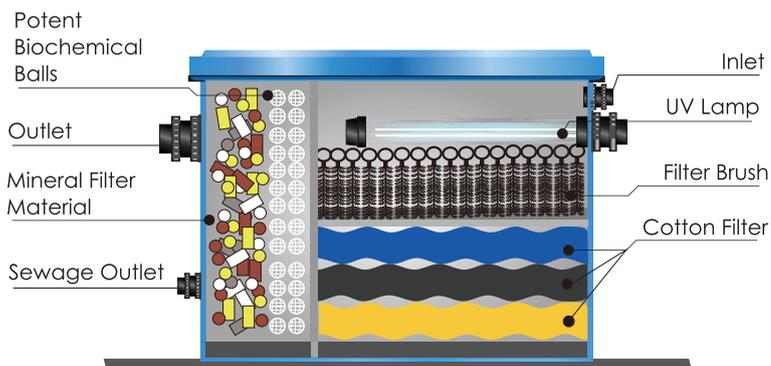


MINDER fish pond biochemical filter tank is refined with high grade reinforced polyester resin Made (acceptable non-standard size).

Ground installation, pre-embedded installation
Applicable, widely used in fish tanks, landscape pools, private fish ponds.

MINDER's biological filter is a natural filtering system consisting of helpful bacterial colonies that through a cycling process, convert pollutants in water to harmless nitrate.

It also features a built-in UV sanitation system to kill germs and bacteria to keep fishes healthy.



Specification

MODEL	CODE	LENGTH	WIDTH	HEIGHT	INLET	OUTLET
		mm				
MD-S	71045	400	400	300	32/25	32/25
MD-M	71046	500	400	400	32/25	32/25
MD-L	71047	700	400	400	32/25	32/25

MODULAR FILTRATION SYSTEM





► Patented

Optional add-on

Features & Advantages

- Small footprint for cost effective storage during off-peak season.
- Quick installation. All pipe works are pre-cut and ready for installation.
- Quality parts and equipment manufactured by MINDER.
- Customization of filter and pump models pairing is available.
- Optional Chlorine feeder or trolley can be added upon request.

Warranty

Fittings	1 year
Filter Tank	1 year
Pump	1 year

CS Series is a modular filtration system designed for easy storage and transportation, while offer similar filtration result with traditional permanent set-ups. It is a perfect solution for temporary swimming pools and water parts. The system consists a filter and a pump. Also, optional chlorine dispenser is available.

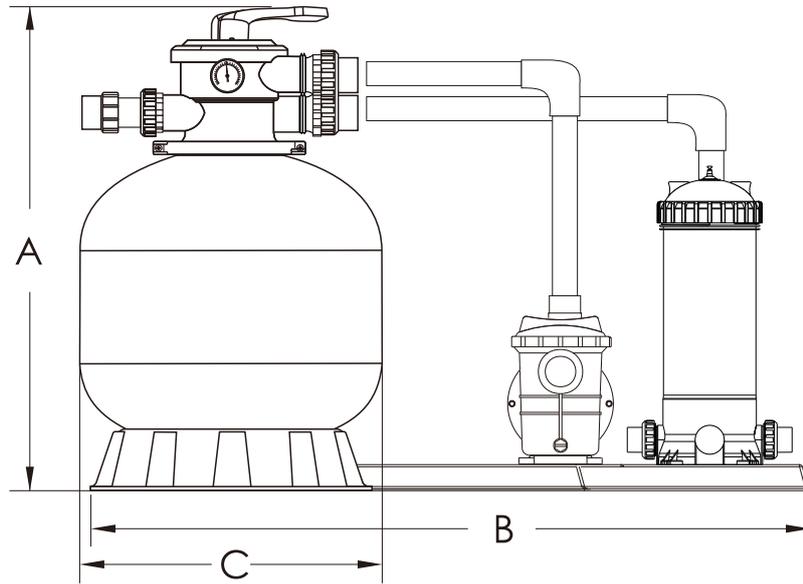
Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar



Specification

MODEL	CODE	FILTER MODEL	PUMP MODEL	MULTIPORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	MAX FLOW RATE		PUMP POWER	SILICA SAND
				IMPERIAL	METRIC			m ³ /h	lpm		
CS350	70086	M14	MVP50			350	0.1	4.8	80	0.50	16
CS400	70087	M16	MVP50			400	0.13	6.3	105	0.50	30
CS450	70085	M18	MVP75	1.5"	50mm	450	0.16	7.98	133	0.75	40
CS550	70088	P21	MVP100			550	0.22	11.52	192	1.00	85
CS650	70090	P25	MVP120			650	0.31	16.2	270	1.20	155



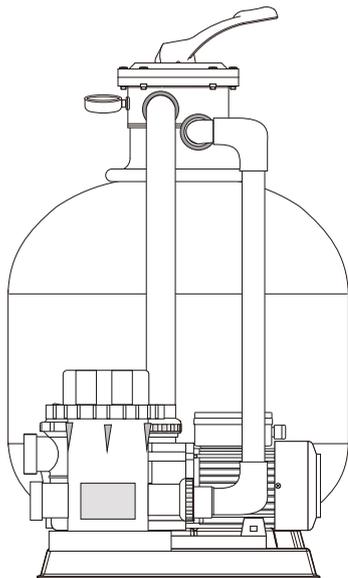
Dimensions

MODEL	A	B	C
	mm		
CS350	660	650	350
CS400	740	750	400
CS450	800	750	450
CS550	840	850	550
CS650	960	850	650

Pool Size Compatibility at 6 hr Turnover

MODEL	POOL SIZE	
	m ³	litre
CS350	29	28,800
CS400	38	37,800
CS450	48	47,880
CS550	69	69,120
CS650	97	97,200





Features & Advantages

- Elegant and compact design.
- Durable fibreglass reinforced plastic casing to withstand all weather condition.
- Small footprint for cost effective storage during off-peak season.
- Quick installation. All pipe works are pre-cut and ready for installation.
- Quality parts and equipment manufactured by MINDER.

Warranty

Fittings	1 year
Filter Tank	1 year
Pump	1 year
Casing	1 year

All-in-One system for easy and fast installation for all weather. MOB filtration system provides a replacement towards concrete plant-room for swimming pool system.

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

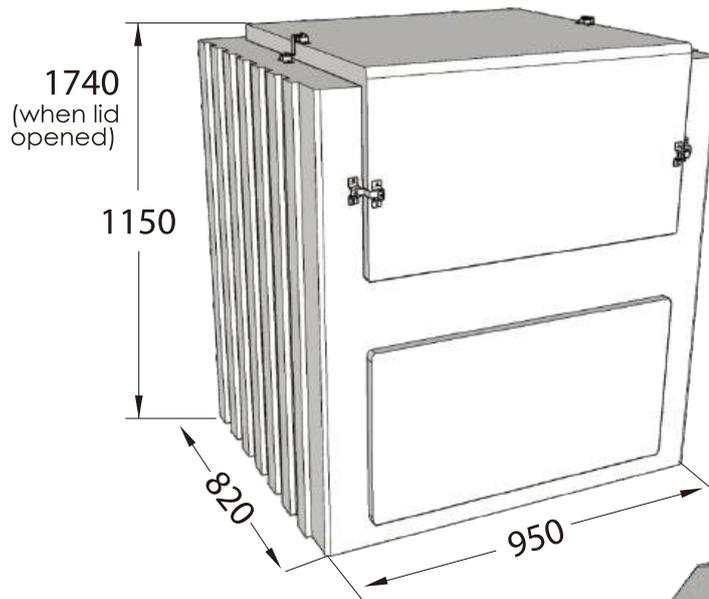
Optional Components

- MINDER Chlor Chlorine Generator.
- MINDER Hydro Smart Water management system.
- Control Box for Pump, Timer & Lights.

Specification

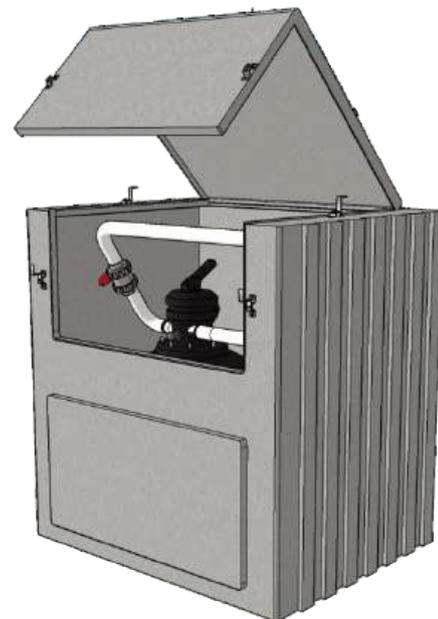
CODE	MODEL	FILTER MODEL	PUMP MODEL	MULTI-PORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA	MAX FLOW RATE		PUMP POWER	SILICA SAND
				IMPERIAL	METRIC	mm	m ²	m ³ /h	lpm	HP	kg
70141	MOB550	M21	MXB series pump	1.5"	50mm	550	0.24	12	192	1.0HP - 3.0HP	85
	MOB650	M25				650	0.33	16	270		155
	MOB700	M28				700	0.38	19	320		210

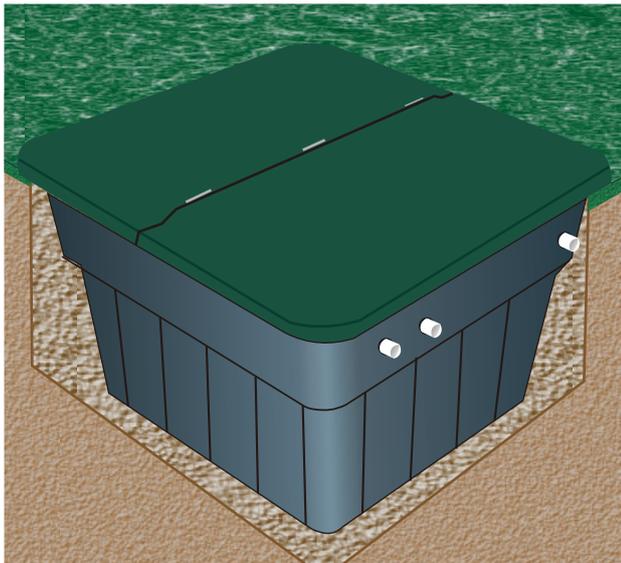
Dimensions (mm)



Pool Size Compatibility at 6 hr Turnover

MODEL	POOL SIZE	
	m ³	litre
MOB550	72	72,000
MOB650	96	96,000
MOB700	114	114,000





Features & Advantages

- Elegant and compact design.
- Durable fibreglass reinforced plastic casing to withstand all weather condition.
- Small footprint for cost effective storage during off-peak season.
- Quick installation. All pipe works are pre-cut and ready for installation.
- Well resolved drainage problems through the special piping laying.

Warranty

Fittings	1 year
Filter Tank	1 year
Pump	1 year
Casing	1 year

All-in-One system for easy and fast installation for all weather. MIB filtration system provides a replacement towards concrete plant-room for swimming pool system.

Operating Limits

Model	2.5bar
Maximum water temperature	43 °C
Operating Pressure	2.5bar
Maximum Pressure	4.0bar

Optional Components

- MINDER Chlor Chlorine Generator.
- MINDER Hydro Smart Water management system.
- Control Box for Pump, Timer & Lights.
- Chlorine / Bromine Tablet Feeder.

Specification

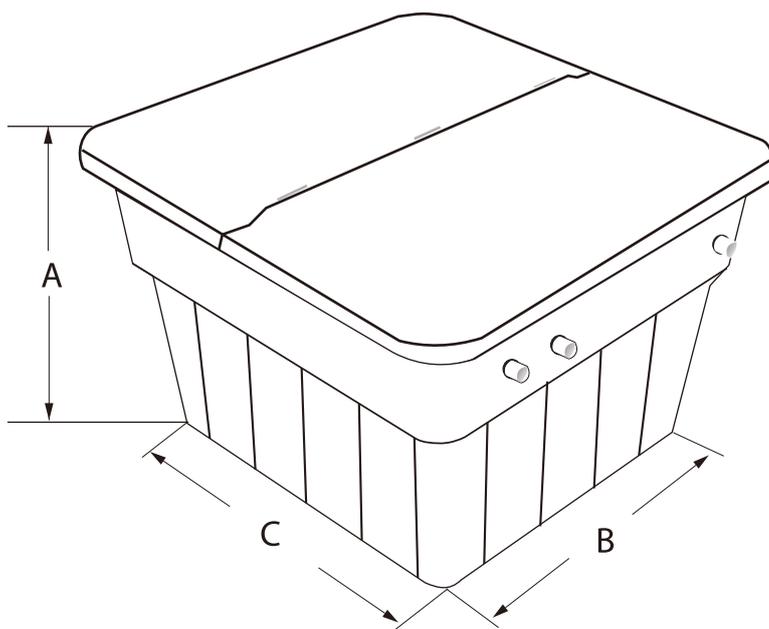
CODE	MODEL		FILTER MODEL	PUMP MODEL	MULTI-PORT VALVE UNION SIZE		TANK Ø	FILTRATION AREA		MAX FLOW RATE		PUMP POWER	SILICA SAND
	CASE	MODEL			IMPERIAL	METRIC		mm	m ²	m ³ /h	lpm		
71060	MIBS	MIBS550	MS21	MVP or MXB Pumps	1.5"	50mm	550	0.22	12	200	1.0HP	85	
		MIBS650	MS25		1.5"	50mm	650	0.33	16	267		155	
70965	MIBL	MIBL700	MS28		1.5"	50mm	700	0.38	19	317	3.0HP	210	
		MIBL700	MS28B		2.0"	63mm	700	0.38	20	333	210		
		MIBL800	MS32		2.0"	63mm	800	0.50	25	417	250		
		MIBL900	MS36		2.0"	63mm	900	0.64	30	500	350		

Dimensions

MODEL	A	B	C
	mm		
MIBS550	1250	1180	950
MIBS650	1250	1180	950
MIBL700	1410	1370	1070
MIBL700	1410	1370	1070
MIBL800	1410	1370	1070
MIBL900	1410	1370	1070

Pool Size Compatibility at 6 hr Turnover

MODEL	POOL SIZE	
	m ³	litre
MIBS550	72	72,000
MIBS650	96	96,000
MIBL700	114	114,000
MIBL700	120	120,000
MIBL800	150	150,000
MIBL900	180	180,000



MULTIPOINT VALVES



Features & Advantages

- 100% water pressure, performance and leakage tested.
- Unions sizes in Metric and Imperial standard available
- SS316 spring & screw, non-corrosive in saltwater.
- Designed, manufactured and quality controlled by MINDER.
- Sleek & robust design for long lasting usage.
- Laser engraved label marking to prevent fading or peeling off.

MINDER SUPER FLOW Multiport valves are designed for maximum flow, quietness and durability. It is engineered and constantly improved to withstand working pressure for up to 400kpa (4.0 bar) which is suitable for domestic and commercial application. Both top and side mounted and different sizes configuration are available.

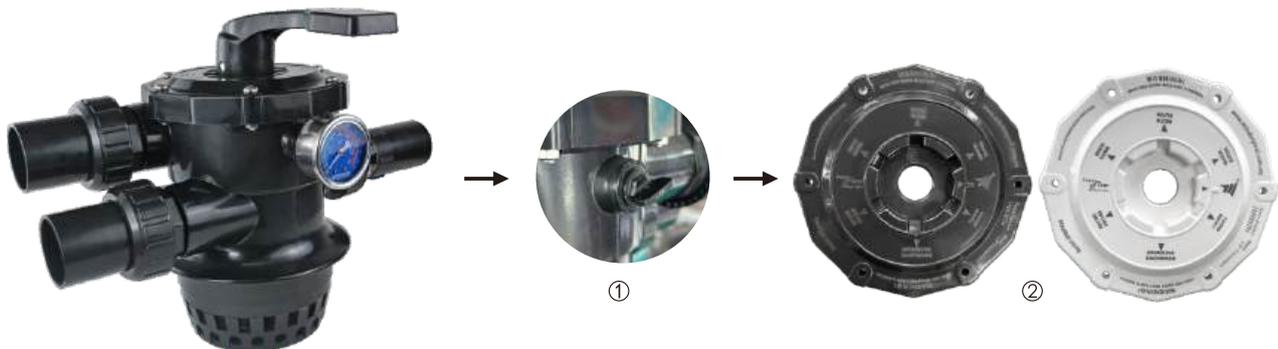
Operating Limits

Model	
Maximum water temperature	43 °C
Maximum Pressure	4.0bar

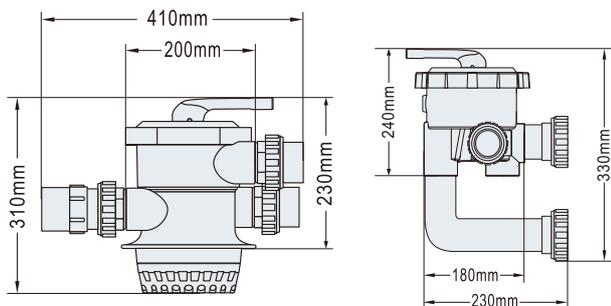
Warranty

Multiport Valve	1 year
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1.5" TOP & SIDE - MOUNT 6-ways Multiport Valve

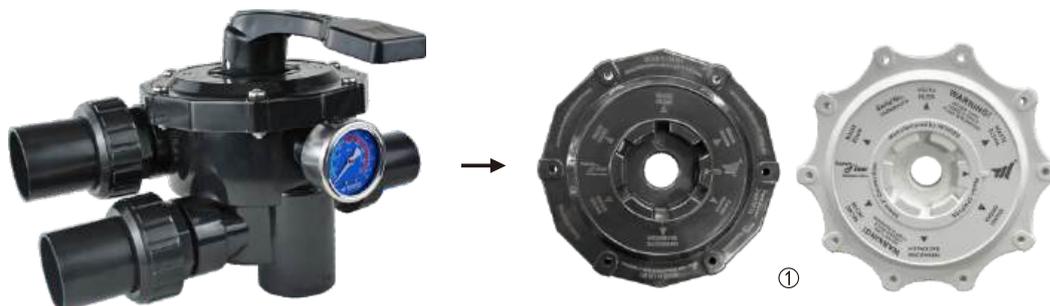


- 1) Dual-pressure gauge port for flexible installation ► **Patented**
- 2) Available in White or Black color
- 3) Standard Inclusion: Angle-adjustable unions; In-line sight glass on waste Output; Dual Oil Pressure Gauge
- 4) Optional traditional Unions available upon request

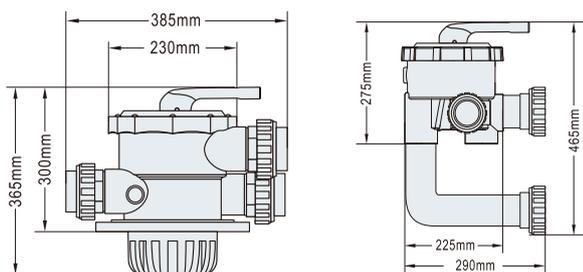


MODEL	CODE	COLOUR	MULTIPORT VALVE UNION SIZE	
			IMPERIAL	METRIC
V1.5	70001	WHITE	1.5"	50mm
V1.5	70003	BLACK	1.5"	50mm
VS1.5	70005	WHITE	1.5"	50mm
VS1.5	70007	BLACK	1.5"	50mm

2.0" TOP & SIDE - MOUNT 6-ways Multiport Valve



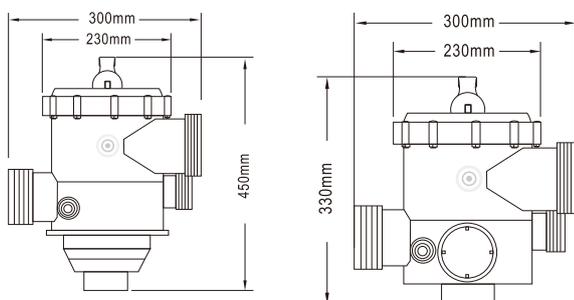
- 1) Available in White or Black color
- 2) Standard Inclusion: Angle-adjustable unions; Cylinder type sight glass; MINDER Dual Oil Pressure Gauge
- 3) Optional traditional Unions available upon request



MODEL	CODE	COLOUR	MULTIPOINT VALVE UNION SIZE	
			IMPERIAL	METRIC
V2.0	70002	WHITE	2.0"	63mm
V2.0	70004	BLACK	2.0"	63mm
VS2.0	70006	WHITE	2.0"	63mm
VS2.0	70008	BLACK	2.0"	63mm

2.5" TOP & SIDE - MOUNT 6-ways Multiport Valve

- 1) Available in White or Black color
- 2) Standard Inclusion:
 - Traditional unions;
 - Cylinder type sight glass;
 - MINDER Dual Oil Pressure Gauge



MODEL	CODE	COLOUR	MULTIPOINT VALVE UNION SIZE	
			IMPERIAL	METRIC
V2.5	71187	BLACK	2.5"	75mm
VS2.5	70923	BLACK	2.5"	75mm

6-Ways Multiport Valve Position



MINDER's Innovative Multiport valve are designed and built with top quality in mind. Our multiport valve is 100% water pressure tested up to 6 bar pressure to ensure no water leakage. Furthermore, we do cycle test, stress test on rotor etc. To make sure the valve has long life.

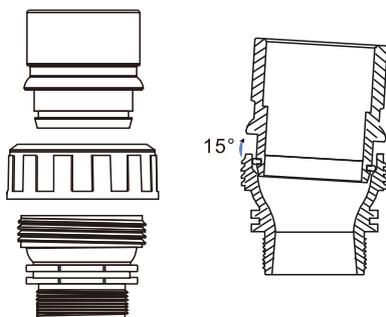
- **FILTER:** Normal filtration and vacuuming
- **WASTE:** By-passes filter, used for vacuuming waste or lowering water level in pool
- **CLOSED:** Shuts off all flow to filter or pool
- **RINSE:** Use after backwash to flush dirt from valve
- **RECIRCULATE:** By-passes filter to circulate water to pool
- **BACKWASH:** Cleaning filter by reversing the flow

Angle Adjustable Union (New Feature)



► Patented

MINDER's unique design **Angle-adjustable Union** allows up to 15 degree angle adjustable capability which will minimize the system vibration and provide installation flexibility (prevent user installation error). In turn, the product life span is increased.



MODEL	CODE	COLOUR	UNION SIZE	
			inch	mm
1.5" Metric	90511	WHITE		50mm
1.5" Imperial	90512	WHITE	1.5"	
1.5" Metric	90513	BLACK		50mm
1.5" Imperial	90514	BLACK	1.5"	
2.0" Metric	90515	WHITE		63mm
2.0" Imperial	90516	WHITE	2.0"	
2.0" Metric	90517	BLACK		63mm
2.0" Imperial	90518	BLACK	2.0"	

SANITATION SYSTEM



Features & Advantages

- User friendly operation system and suitable for non-professional.
- Equipped with industrial pH, Free Chlorine and temperature probe. It allows accurate reading under high velocity.
- 7" IPS display with LED backlit
- Powered by SAMSUNG Chip sets for responsive operation.
- Pair capability with dosing pumps and / or MINDER Chlor chlorine generator.

Warranty

Hydrosmart

1 year

HYDROSMART Water Management System employs the latest water analysis technologies and applies them to the pool industry. The system is equipped with a 7" touch screen that display real-time pH, Free Chlorine and Water Temperature. The system can determine and display whether the current reading is acceptable based on the pool water quality regulation in your country. The system will automatically activate the dosing system when the reading level is out of the regulated range.

Optional Components



Dosing Pump



MINDER Chlor Chlorine Generator

Operating Limits

Voltage (Frequency)	220-240V (50/60Hz)
Power	45.5W
pH	2-9
Chlorinem	0-5.0 ppm
Tempreture	4-50 °C



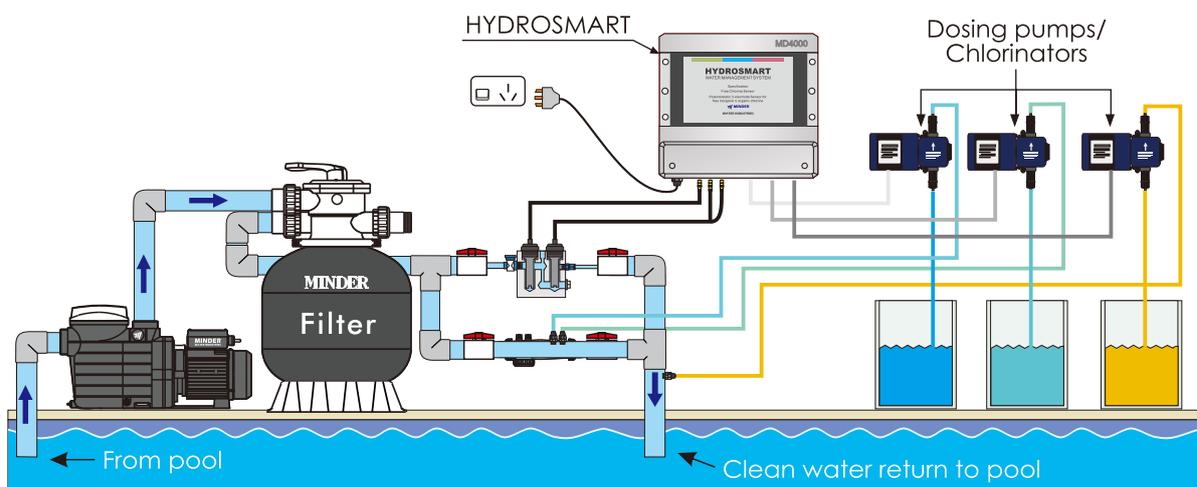
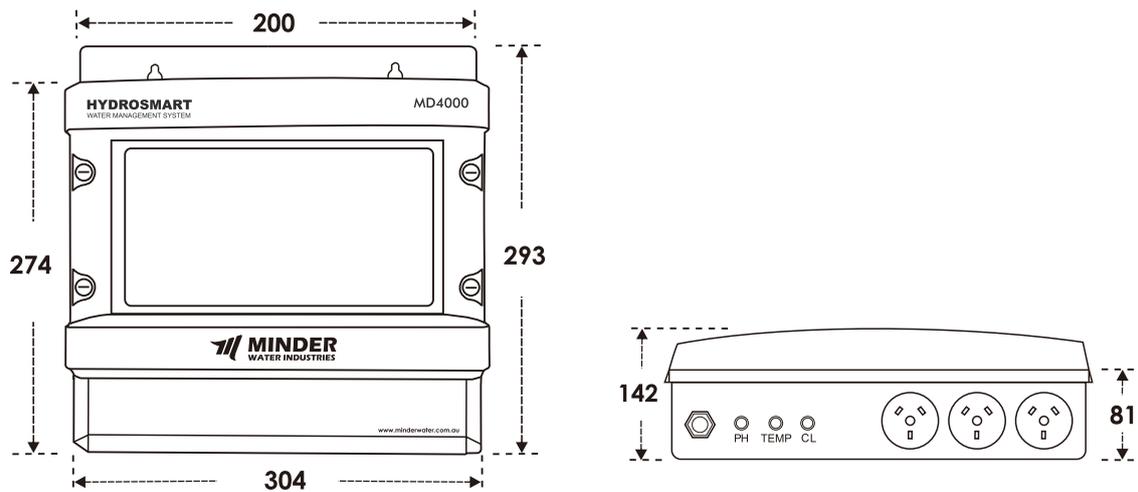
Free Chlorine Sensor

- Potentiostatic 3-electrode sensor for free inorganic & organic chlorine.
- Measurement variable: HOCl, no significant cross sensitive to combined Chlorine (Chloramines)
- Measuring range: 0-20 ppm
- Measuring accuracy: 2% or +/- 10ppb HOCl
- Temperature range 0-60 °C
- ABS body
- Sensitive xenon membrane
- Measuring principle, technology: Amperometric, 2 electrodes, membrane-covered

pH Sensor

- pH glass electrode
- ABS body
- pH range 0-14
- zero potential 7.0 +/- 0.3
- Temperature 0-60 °C
- Pressure range 0-3 bar
- Fixed sensor protector
- Waterproof rating: IP68

Dimensions (mm)





Features & Advantages

- Auto Clean Technology with self-cleaning electrolytic cell.
- High Efficiency toroidal transformer.
- Over temperature and over current protection.
- External reset button available.
- LED light indicator for reverse polarity and warning light for water fault.
- Low sale operation: 3500 to 4500ppm.
- Technically advanced digital micro processing PCB.
- Premium grade long life electrolytic cell.
- Energy efficient low kW consumption.

Warranty

MINDER chlor

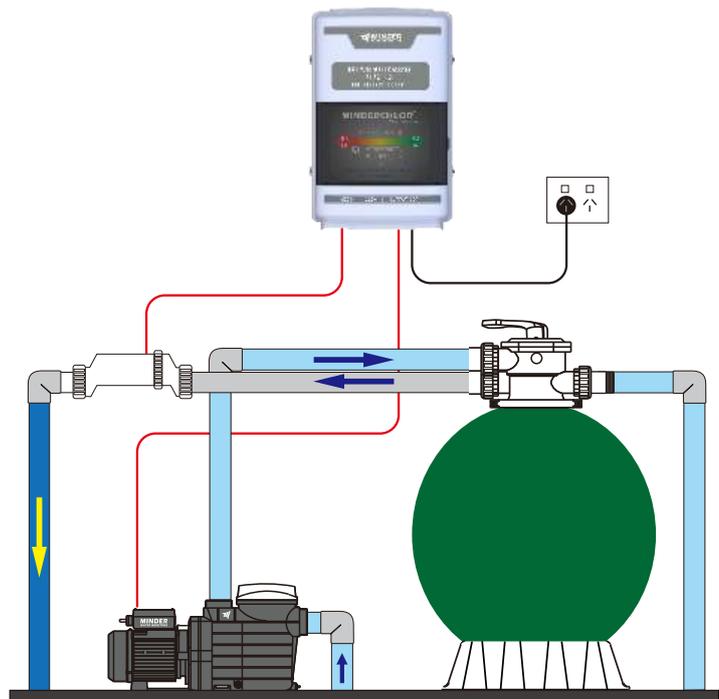
1 year

MINDER Chlor Chlorine Generator is engineered for reliability and easy operation. Electrolytic chlorine generation is the most effective and convenient way to maintain clean pool water. It has the same sanitation performance as manual chlorine dosing without the need to buy, transport and store expensive chlorine compounds.



Ideal Operating Condition

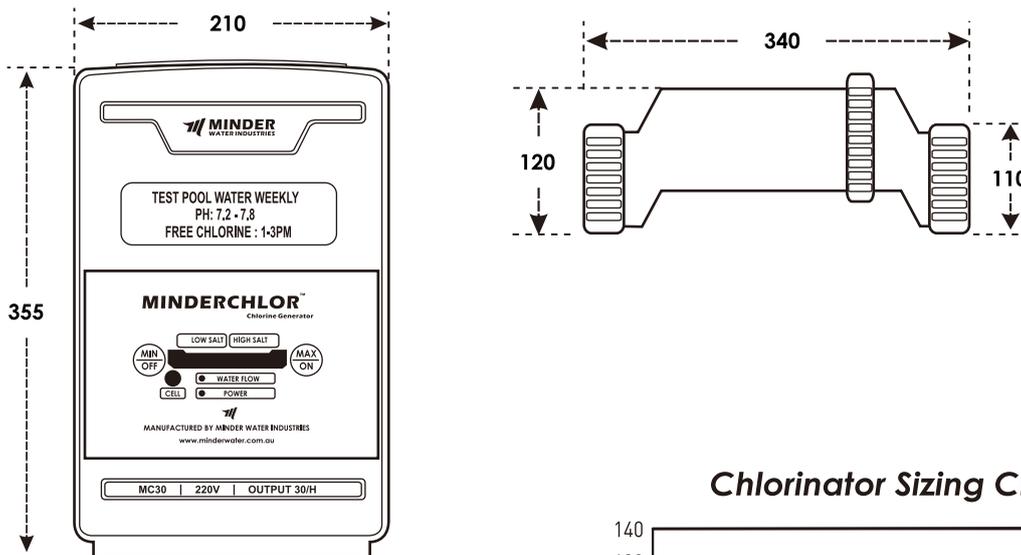
pH	7.2 - 7.4
Total Alkalinity	90ppm - 150ppm
Cyanuric Acid	40ppm - 65ppm
Salt	4000 ppm
Chlorine	1.5ppm - 2.0ppm



Specification

MODEL	CODE	VOLTAGE	POWER	SALINITY	MAX CHLORINE OUTPUT		CONNECTION SIZE	MAX POOL SIZE	WATERPROOF GRADE
			w		ppm	g/h			
MC20	90154	220-240V 50/60Hz	200	3500 - 4500	20	200	1.5" - 2.0"	65	IP24
MC25	90155		200		25	250		80	
MC30	90156		350		30	300		100	

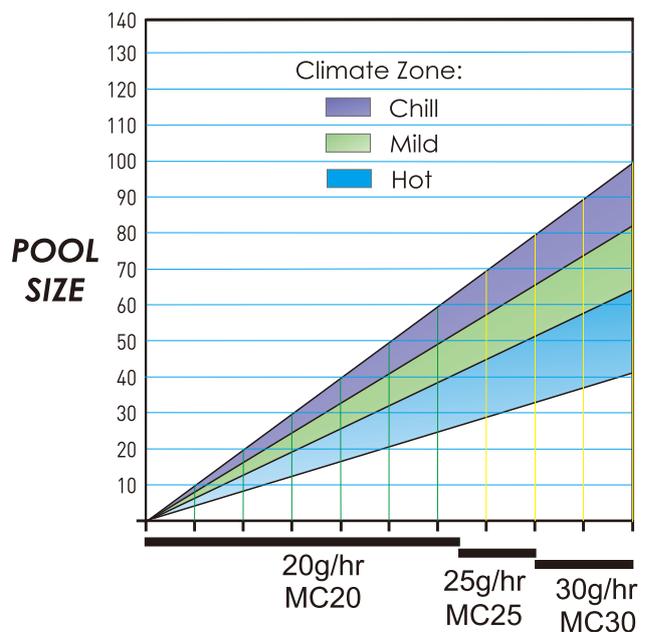
Dimensions (mm)



Choose your MINDER chlor™

1. Determine your pool size (in thousand litres)
2. Move horizontally until you reach your climate zone
3. Do down to determine the amount of chlorine you require
4. If you budget allows, add extra 10-20%
5. In commercial installations, allow at least 100% extra

Chlorinator Sizing Chart





Features & Advantages

- Permanent lubricated gear motor for quiet and durable operation.
- Output up to 389GPD.
- Double ball ceramic check valve.
- Adjustable output at 27:1.
- Side mounted mechanical flow control switch.
- Enclosure Class is IP20.

Warranty

Dosing Pump	1 year
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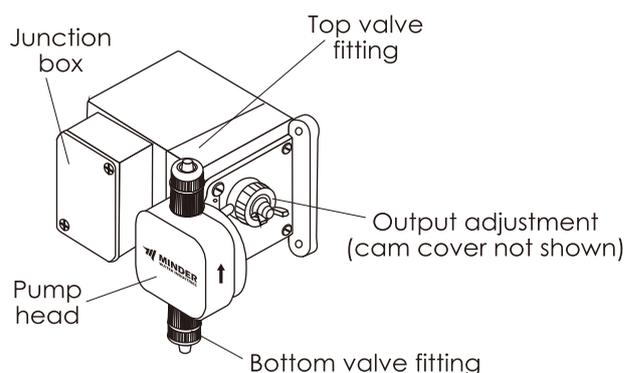
DOSING STAR™ dosing pump is designed to dose liquid chemical to the swimming pool in a safe and controllable way. It can help avoiding direct contact with the chlorine tablet.

Application:

Domestic pools, Commercial pool & Water treatment.

Operating Limits

Voltage	220V
Amperage	0.378A
Maximum torque	23.47 N.m
Input power	45.5W
Maximum fluid temperature	50° C
Maximum ambient temperature	43° C
Maximum viscosity	1,000 centipoise
Maximum suction lift	3m



Specification

MODEL	CODE	MAXIMUM OUTPUT AT 0 psi		DOSING FREQUENCY	MAXIMUM PRESSURE
		gal/h	l/h		
70142	M614P	1	3.8	14	125
70143	M630P	2.4	9.3	30	125
70144	M645P	3.8	15	45	80
70145	M660P	4.6	17.4	60	60
70146	M6125P	9.9	37.0	125	30
91039	M6250P	16.2	61	250	10



Replacement Kit
(Product code: 90583)

C500 CHEMICAL FEEDER

EXTRA LARGE CAPACITY

Up to 10kg of capacity, suitable for commercial applications

1.5" CONNECTIONS

Suitable for in-line or off-line installations

CHEMICAL RESISTANCE MATERIAL

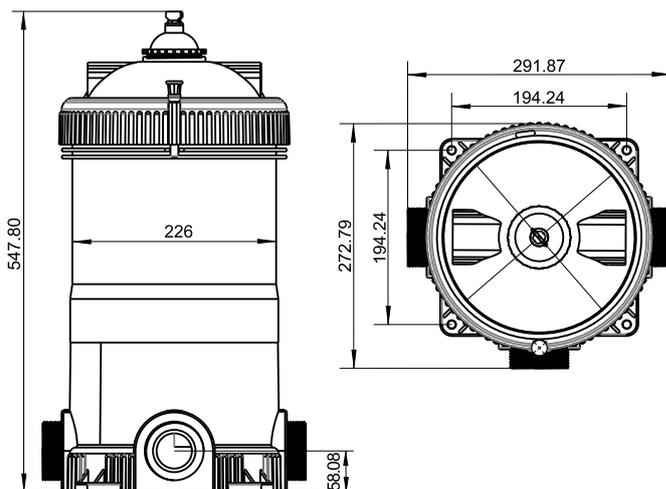
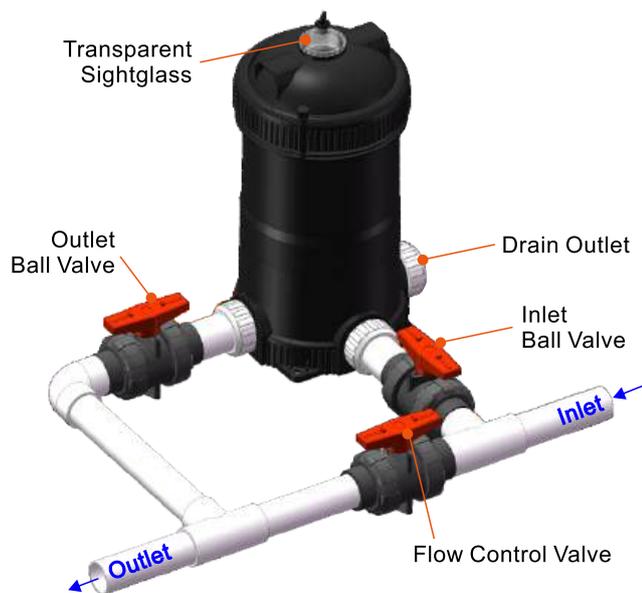
Manufactured from engineered plastic

SIGHT GLASS

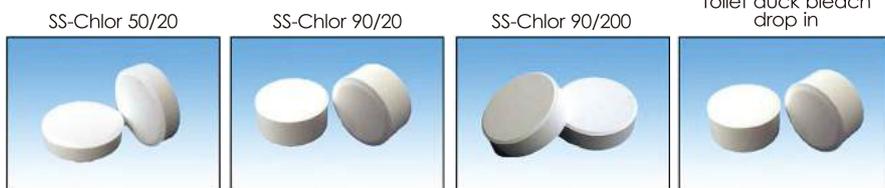
Easy observation of chlorine level

LARGE OPENING

Refill chlorine within 10 seconds, no tool required

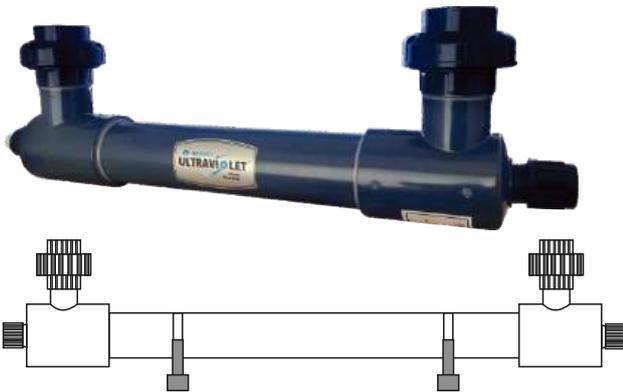


Disinfecting Chemicals



Specification

MODEL	CODE
C500	91056



Features & Advantages

- Able to disinfect bacteria and other microorganism at 99.9% efficiency.
- Environmental friendly.
- Reduce chlorine consumption at 87%.
- Cost efficient PVC casing for better affordability of UV-lamp.

Warranty

UV lamp

1 year

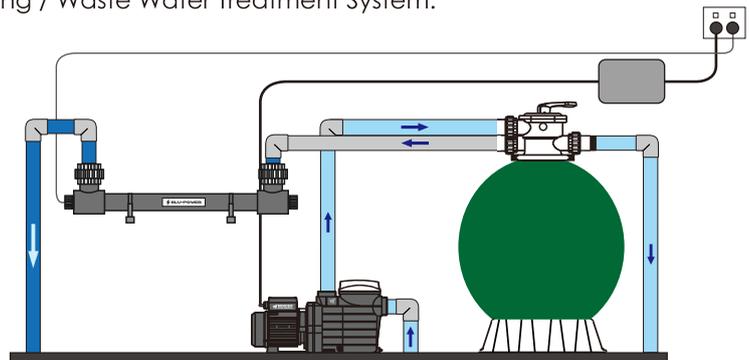
MINDER BP series UV lamp kills the bacteria and other microorganism in the water. It is one of the safest disinfection system for swimming pool. UV lamp is made from corrosion resistant engineered PVC, which is suitable for swimming pool installation. The high quality UV lamp last for 9,000 hours, with 95 efficiency that kills up to 99% bacteria. The product insulation class is IP68, which is durable and reliable.

Application:

Domestic pools, Commercial pools, Ponds, Drinking / Waste Water Treatment System.

Operating Limits

Maximum pressure	300kpa (3bar)
Lamp life	9000 hours
Voltage	220-240V
Frequency	50/60 Hz
Enclosure class	68



Specification

MODEL	CODE	MAX FLOW RATE	POWER OUTPUT	CONNECTION SIZE	PIPE DIAMETER	LENGTH
		m ³ /h	W	INCH	mm	mm
71063	BP5	5.7	33	2.0	3	786
71064	BP10	10.1	65		3	786
71065	BP15	15	85		3	946
71066	BP20	18.5	85		4	946
71067	BP25	23.7	120		4	1241
71068	BP35	37	120		4	988
71069	BP45	46	120		4	1288
71090	BP55	55	125		8	988
71091	BP90	88	225		8	1288

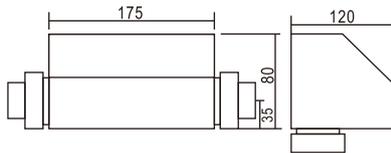


HEATING SYSTEM



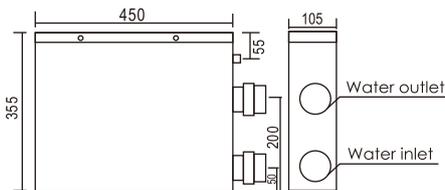
SH series heater

(Used in Household massage pool)



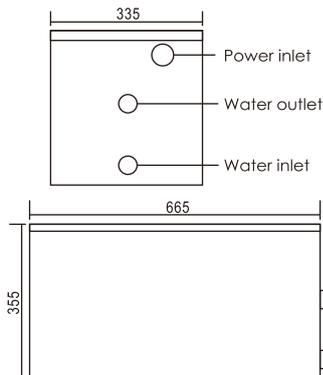
MODEL	POWER	VOLTAGE	CURRENT	PHASE	PIPE DIA.	WIRE
	kw	V	A		INCH	N x mm ²
SH-2	2	220	9	1	1.5	3 x 2.5
SH-3	3	220	14	1	1.5	3 x 4.0

MH series heater



MODEL	POWER	VOLTAGE	CURRENT	PHASE	PIPE DIA.	WIRE
	kw	V	A		INCH	N x mm ²
MH-5.5	5.5	220/380	25/9	1/3	1.5	3x6 / 5x2.5
MH-11	11	220/380	50/17	1/3	1.5	3x10 / 5x4
MH-15	15	220/380	68/25	1/3	1.5	3x16 / 5x6

BH series heater



MODEL	POWER	VOLTAGE	CURRENT	PHASE	PIPE DIA.	WIRE
	kw	V	A		INCH	N x mm ²
BH-18	18	380	28	3	1.5	5x6
BH-20	20	380	30	3	1.5	5x6
BH-24	24	380	37	3	1.5	5x10
BH-30	30	380	46	3	1.5	5x10
BH-36	36	380	55	3	1.5	5x16
BH-40	40	380	62	3	1.5	5x16
BH-45	45	380	68	3	1.5	5x25
BH-50	50	380	76	3	1.5	5x25
BH-55	55	380	85	3	1.5	5x25
BH-60	60	380	92	3	1.5	5x25



Features & Advantages

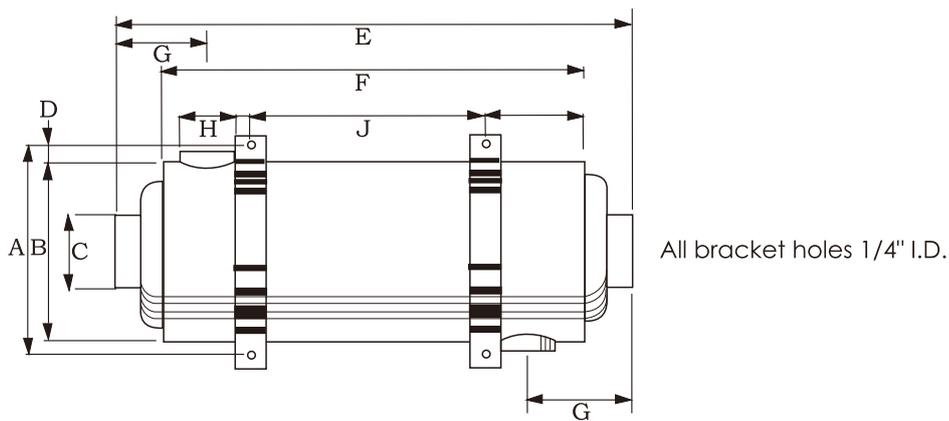
- Maximum working temperature of 110°C (104°C).
- Maximum working pressure 1000kpa.
- High quality corrosion resistant stainless steel AISI-316.
- Rolled formed to shape and precision welded.
- Designed to minimize pressure loss in the heating system.
- Suitable for all types of swimming pools, spas, and hot tubs.

Warranty

Heat Exchanger	1 year
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Specification

MODEL	CODE	CAPACITY		HOT WATER	POOL WATER FLOW	POOL SURFACE
		KW	Btu/h	L/min	L/min	m ²
MDW-80	95000	25	95	30	25	30
MDW-135	95001	40	135	25	200	30-60
MDW-200	95002	60	200	30	250	60-75
MDW-260	95003	75	260	35	300	75-115
MDW-400	95004	120	400	50	360	115>



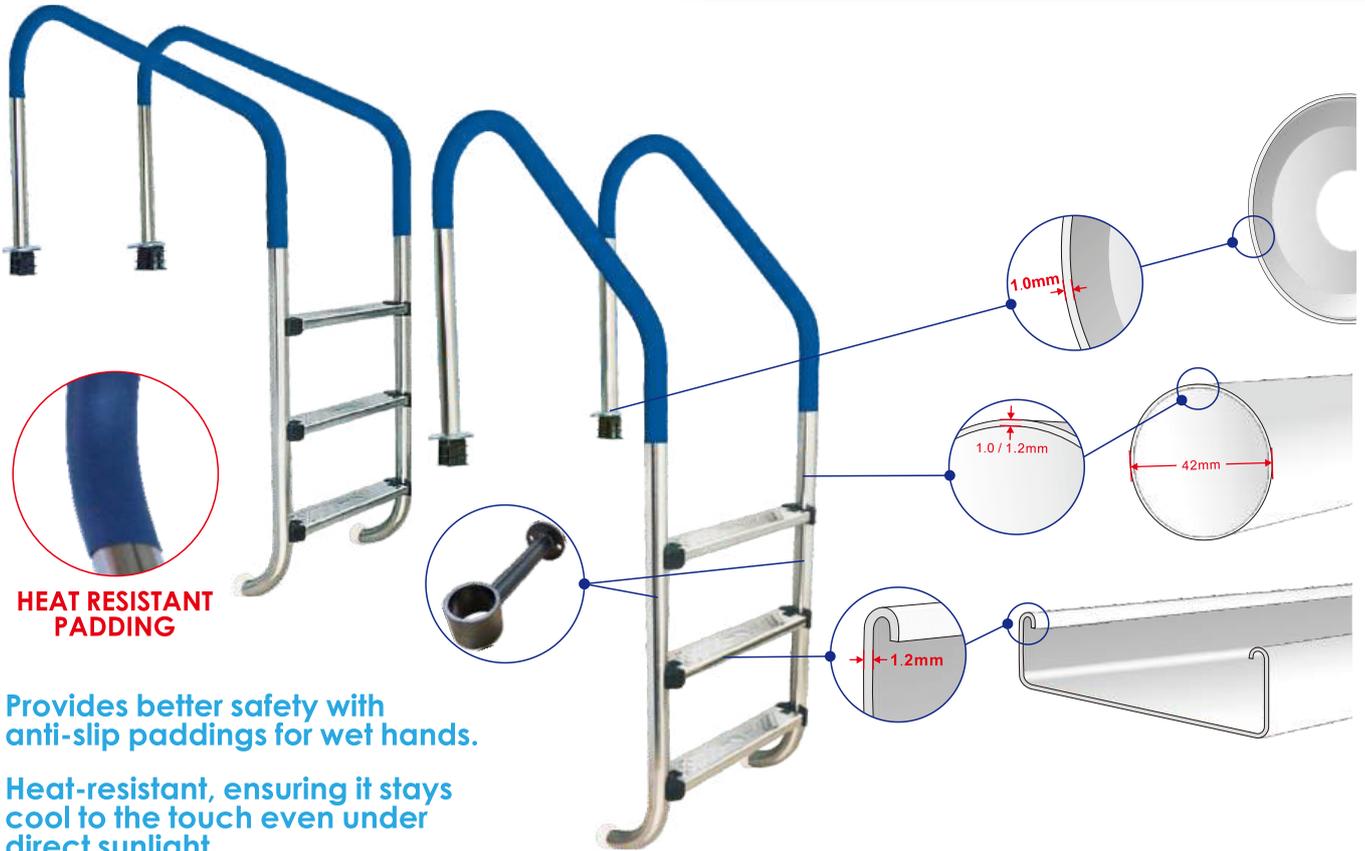
Dimensions

MODEL	A	B	C	D	E	F	G	H	J
	mm								
MDW - 80	5 ¹ / ₂ "	5 ¹ / ₈ "	1"	1/4"	11"	9"	2 ¹ / ₄ "	1 ¹ / ₄ "	5"
MDW - 135	5 ¹ / ₂ "	5 ¹ / ₈ "	1"	1/4"	13 ¹ / ₂ "	11"	3"	1 ¹ / ₂ "	4"
MDW - 200	5 ¹ / ₂ "	5 ¹ / ₈ "	1"	1/4"	18 ³ / ₄ "	16"	3"	1 ¹ / ₂ "	9"
MDW - 260	5 ¹ / ₂ "	5 ¹ / ₈ "	1"	1/4"	23 ³ / ₄ "	21 ¹ / ₄ "	3"	1 ¹ / ₂ "	14"
MDW - 400	5 ¹ / ₂ "	5 ¹ / ₈ "	1"	1/4"	41 ³ / ₄ "	39 ³ / ₈ "	3 ¹ / ₂ "	2"	31 ¹ / ₂ "



LADDERS
UNDERWATER LIGHT

MBS & MLS SERIES POOL LADDER

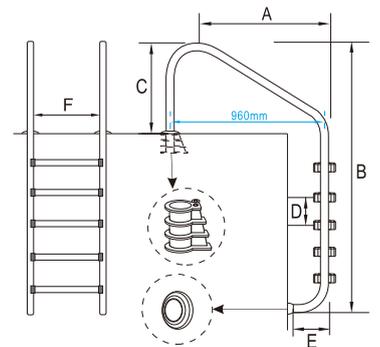


Provides better safety with anti-slip paddings for wet hands.

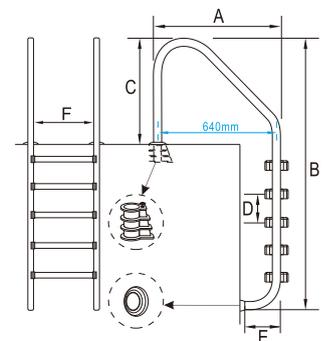
Heat-resistant, ensuring it stays cool to the touch even under direct sunlight.

Dimensions

MODEL	CODE	NO. OF STEPS	STAINLESS STEEL GRADE	PIPE THICKNESS	PIPE DIAMETER	A	B	C	D	E	F	WEIGHT
												KG
												mm
MBS215	70208	2	304	1.0			1320					8.0
MBS215	70210	2	316	1.2			1320					8.0
MBS315	70211	3	304	1.0			1570					9.2
MBS315	70213	3	316	1.2			1570					9.2
MBS415	70214	4	304	1.0	42.0	1000	1820	788	250	170	500	10.4
MBS415	70216	4	316	1.2			1820					10.4
MBS515	70217	5	304	1.0			2070					11.5
MBS515	70219	5	316	1.2			2070					11.5



MODEL	CODE	NO. OF STEPS	STAINLESS STEEL GRADE	PIPE THICKNESS	PIPE DIAMETER	A	B	C	D	E	F	WEIGHT
												KG
												mm
MLS215	70184	2	304	1.0			1320					7.2
MLS215	70186	2	316	1.2			1320					7.2
MLS315	70187	3	304	1.0			1570					8.5
MLS315	70189	3	316	1.2			1570					8.5
MLS415	70190	4	304	1.0	42.0	686	1820	788	250	170	500	10.0
MLS415	70192	4	316	1.2			1820					10.0
MLS515	70193	5	304	1.0			2070					11.0
MLS515	70195	5	316	1.2			2070					11.0





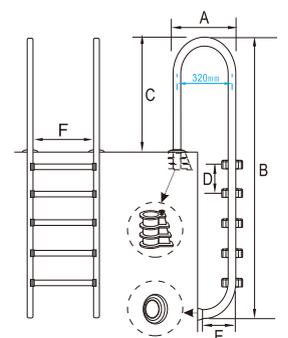
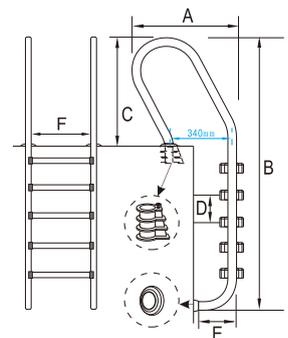
Provides better safety with anti-slip paddings for wet hands.

Heat-resistant, ensuring it stays cool to the touch even under direct sunlight.

Dimensions

MODEL	CODE	NO. OF STEPS	STAINLESS STEEL GRADE	PIPE THICKNESS	PIPE DIAMETER	A	B	C	D	E	F	WEIGHT
						mm						
MFS215	70160	2	304	1.0			1330					7.4
MFS215	70162	2	316	1.2			1330					7.4
MFS315	70163	3	304	1.0			1530					8.1
MFS315	70165	3	316	1.2			1530					8.1
MFS415	70166	4	304	1.0	42.0	533	1830	709	250	170	500	9.6
MFS415	70168	4	316	1.2			1830					9.6
MFS515	70169	5	304	1.0			2080					11.0
MFS515	70171	5	316	1.2			2080					11.0

MODEL	CODE	NO. OF STEPS	STAINLESS STEEL GRADE	PIPE THICKNESS	PIPE DIAMETER	A	B	C	D	E	F	WEIGHT
						mm						
MUS215	70148	2	304	1.0			1320					7.0
MUS215	70150	2	316	1.2			1320					7.0
MUS315	70151	3	304	1.0			1570					7.8
MUS315	70153	3	316	1.2			1570					7.8
MUS415	70154	4	304	1.0	42.0	380	1820	788	250	170	500	9.2
MUS415	70156	4	316	1.2			1820					9.2
MUS515	70157	5	304	1.0			2070					10.0
MUS515	70159	5	316	1.2			2070					10.0



LIGHTROL

LIGHT CONTROL SYSTEM

LIGHTROL



**QUAD-CORE CABLE
POWER & DATA**



**AUTO BRIGHTNESS
CONTROL**



**BUILT-IN
TRANSFORMER**



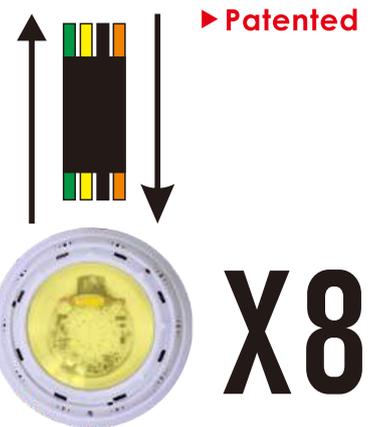
**MODE & TIMER
SETTINGS**



What is Quad Core Cable Control?

Traditional light control systems transmit signals through power cable, but this method has low efficiency and incapable to send complex commands. Wireless remote control usually controls only one light at a time, big headache for operators if the pool has 30 lights.

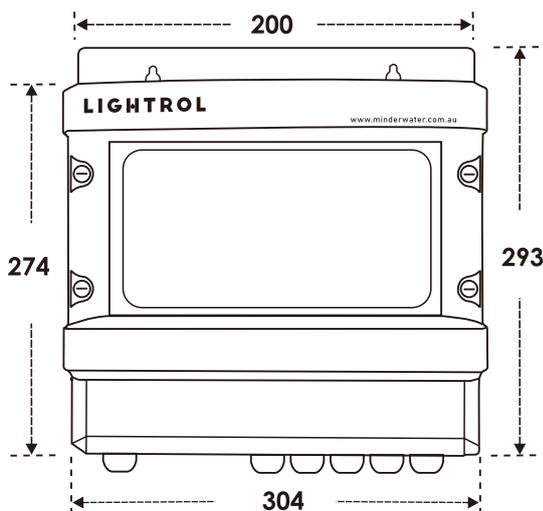
Minder's Quad Core Control technology uses two wires for power supply and two wires for data transmission, allowing for complex command communication.



Specification

MODEL	CODE	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER
		(V)		(W)
LR100	74003	220-240	AC12	150

Dimensions



QUAD-CORE DIRECT CONTROL TECHNOLOGY

Wired transmission of brightness, timing switch, colour control, and other commands, ensuring ultra-stable performance.

BUILT-IN 12V TOROIDAL TRANSFORMER

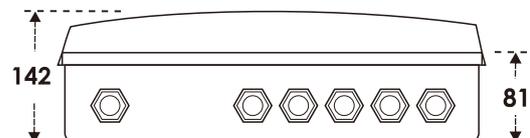
Output: 150W, toroidal transformer, safe and reliable

AUTOMATIC MODE SWITCHING

Automatically adjusts modes based on requirements

MULTI-LIGHT CONNECTION

Capable of controlling multiple lights simultaneously



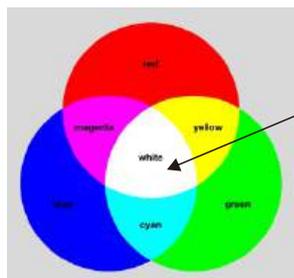
Features & Advantages

- Quad Core Control Technology for stable signal transmission.
- Built-in Chip to receive control signals with high precision.
- High-Power LEDs ensuring high efficiency and excellent brightness.
- Full-Range colour LEDs: Natural white, pure white, warm white, red, green, blue, purple and yellow.
- Resin filled for ultimate water-proofing.



*Available in White and Stainless Steel Housing.

► Patented



Unique Optical Diffusion Technology

NF series underwater lights utilise advanced Optical Diffusion Technology, combining multiple colour for a balanced and sun-like illumination. It makes your swimming pool or fish pond looks vivid compared to traditional LED lights. Any objects, such as pool tiles or fishes, will be sharpened thanks to this technology.



Left - with Optical Diffusion Technology



Right - standard white LED light

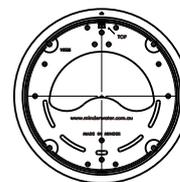
IPX8

Dual IP6X Waterproof Certification

Both the completed product and light panel are IP-rated, proving ultimate water-proofing.

Warranty

NF light	1 year
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Hassel-free when replacing old lights

Backplate is designed with pre-drilled mounting holes compatible with multiple brands, allowing for easy replacement of old lights without the need for re-drilling, thus preventing damage to waterproof layer.

Specification

MODEL	CODE	VOLTAGE (v)	POWER (w)	WHITE / RGB	LIGHTROL SUPPORT	WIRE SPECIFICATION	SURFACE COLOR / MATERIAL
NF-180	73161	AC12	12	✓ / ✓	✓		White ABS
NF-180-304	74005	AC12	12	✓ / ✓	✓	4x1mm ² x1.5m	Stainless steel 304
NF-180-316	74009	AC12	12	✓ / ✓	✓		Stainless steel 316

NF SERIES UNDERWATER LIGHT



Mounting type	Wall mounted
Total Output	15w
LED type	Ultra-bright ECO
Cooling type	Water-cooled
Sealing	Full resin filled
Input Voltage	12v
Output Colour	Natural white, warm white, pure white, yellow, red, blue
IP rating	X8 (Dual rating)
Cable type	Quad-core
Remote Control Receiver	Built-in
Housing Material	ABS
Lens Material	PC

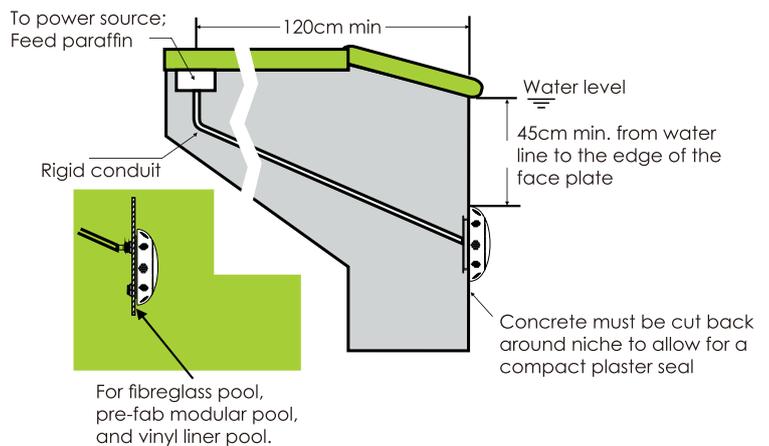
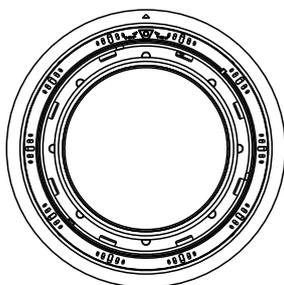
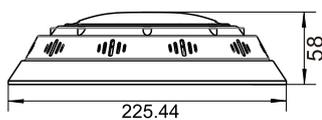
PRODUCT CODE	D0096
RANGE	5m
TRANSMISSION TYPE	433
CONTROL	Brightness, Colour, On/ Off, Flashing



* All NF series lights has built-in remote control receiver.
Only purchase remote control when required (e.g. 1 remote per project).



Dimensions



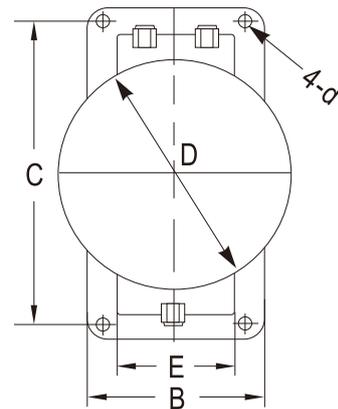
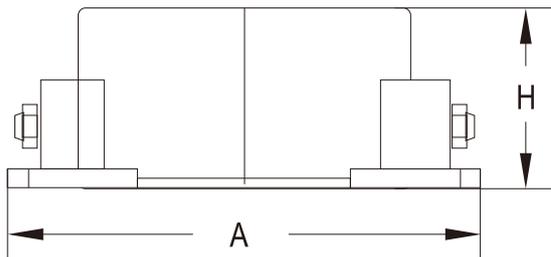


Features & Advantages

- Enclosure class IP64 water and dust proofing.
- ITS-GS, CE and UL approved.

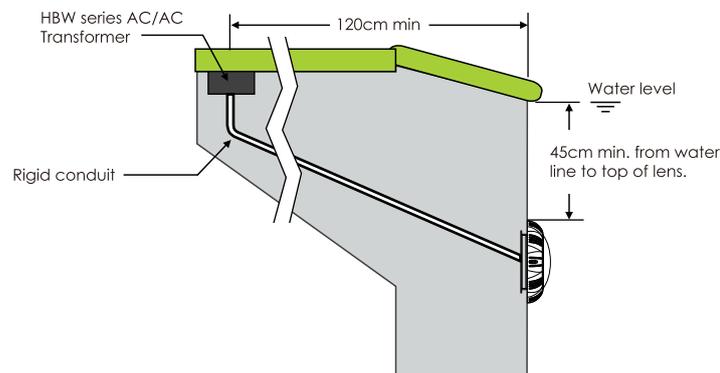
Warranty

HBW transformer	1 year
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Specification & Dimension

MODEL	CODE	INPUT VOLTAGE	OUTPUT VOLTAGE	RATED POWER	A	B	C	D	E	F	G	WEIGHT
		V		W	mm							
HBW-105B	90033			105	195	110	60	175	90	124	8	2.3
HBW-150B	90032			150	195	110	60	175	90	124	8	2.6
HBW-300B	90035			300	210	110	70	190	90	138	8	4.2
HBW-350B	90459	220-240	12	350	210	110	70	190	90	138	8	4.6
HBW-400B	90037			400	210	110	70	190	90	138	8	5.5
HBW-450B	70727			450	225	120	80	205	100	152	10	5.7
HBW-500B	70728			500	225	120	80	205	100	152	10	6.0





WATER FEATURES

Features & Advantages

- Counter current head with LED light.
- On/Off switch on the head for easy switching underwater.
- Adjustable valve to control bubble effect.
- Adjustable water flow.

Warranty

Current jet

1 year

Application

Current creation for swimming in small pool, underwater message for spa.



Durable ABS structure



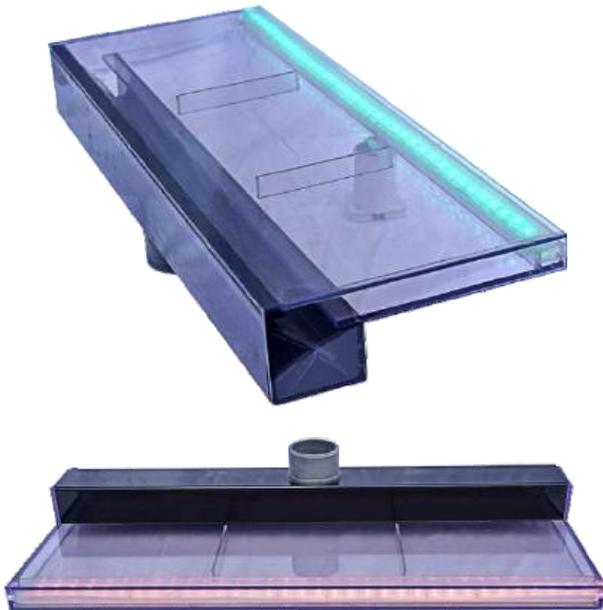
Adjustable Nozzle

Under water On/Off Switch



RGB colour & White Water Light

ACRYLIC WATERFALL



8 Different colour Options with Remote control



Application

Swimming pool, garden, pond, outdoor, spa, hotel

Warranty

Acrylic Waterfall	1 year
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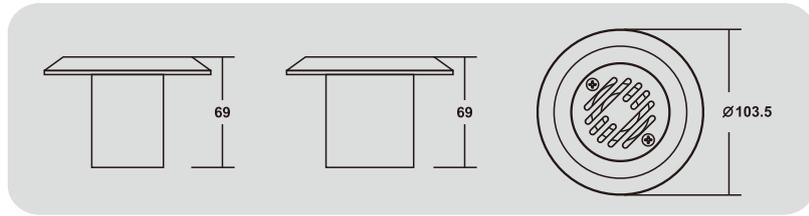
Specification

MODEL	CODE	WIDTH	DEPTH OF LIP	RECOMMENDED FLOW AT 120cm HEIGHT	ENTRY	CONNECTION SIZE	CARTON QTY	REMOTE CONTROL	GROSS WEIGHT/CTN
		mm	mm	L/h		Inch	pcs/ctn		KG
WF300-30	98058	300	30	4,000	Back	1.5	4	No	8.4
WF600-30	98059	600	30	6,000				No	11.3
WF900-30	98060	900	30	9,000				No	14.5
WF1200-30	98061	1200	30	12,000				No	17.4
WF300-30R	98062	300	30	4,000				Yes	8.4
WF600-30R	98063	600	30	6,000				Yes	11.3
WF900-30R	98064	900	30	9,000				Yes	14.5
WF1200-30R	98065	1200	30	12,000				Yes	17.4

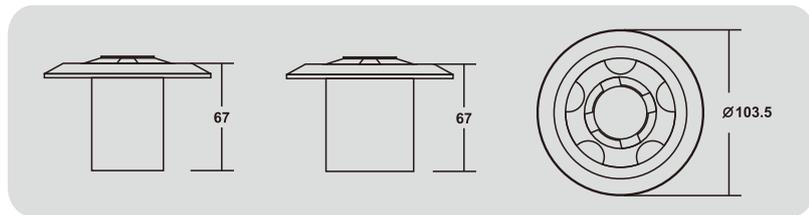


WHITE FITTINGS

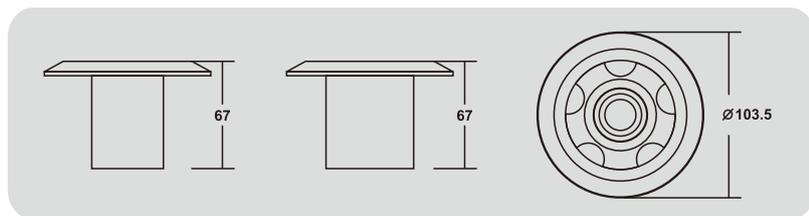
Return Inlet



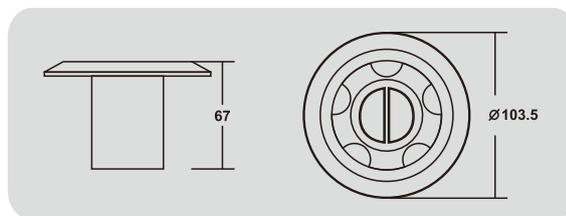
MODEL	CODE	MATERIAL	COLOR	CONNECTION SIZE
81089	81089	ABS	White	1.5" Metric
81090	81090	ABS	White	2.0" Metric
81095	81095	ABS	White	1.5" Imperial
81096	81096	ABS	White	2.0" Imperial



MODEL	CODE	MATERIAL	COLOR	CONNECTION SIZE
81087	81087	ABS	White	1.5" Metric
81088	81088	ABS	White	2.0" Metric
81093	81093	ABS	White	1.5" Imperial
81094	81094	ABS	White	2.0" Imperial

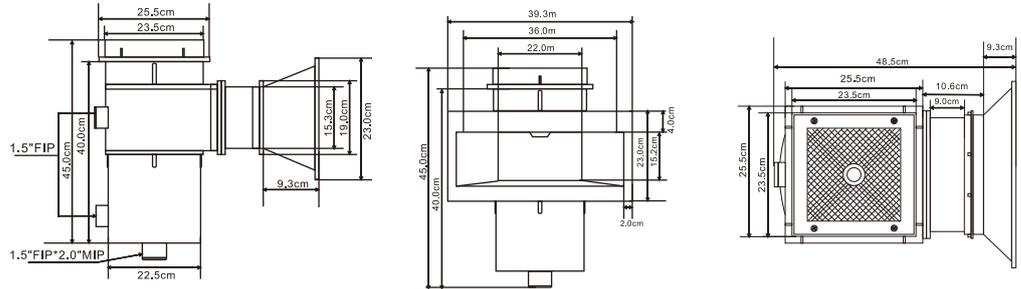


MODEL	CODE	MATERIAL	COLOR	CONNECTION SIZE
81091	81091	ABS	White	1.5" Metric
81097	81097	ABS	White	2.0" Metric
81098	81098	ABS	White	1.5" Imperial
81099	81099	ABS	White	2.0" Imperial

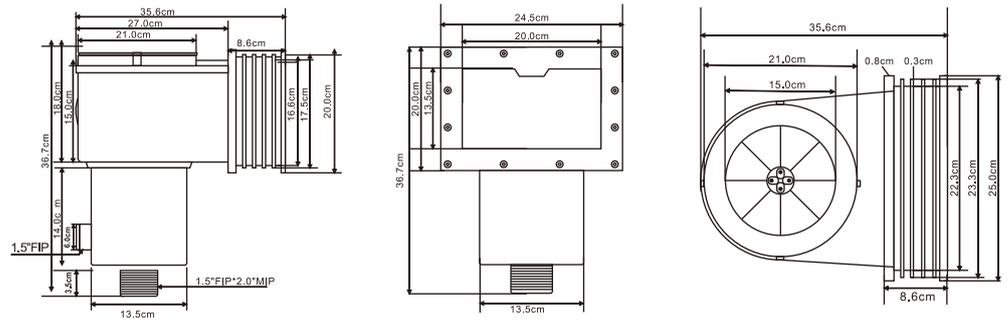


MODEL	CODE	MATERIAL	COLOR	CONNECTION SIZE
81100	81100	ABS	White	1.5" Metric
81101	81101	ABS	White	1.5" Imperial

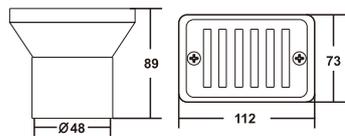
Outlet Fitting



MODEL	CODE	MATERIAL	COLOR	CONNECTION SIZE	
				INNER DIA	OUTER DIA
MD0030	90601	ABS	White	1.5"	2"



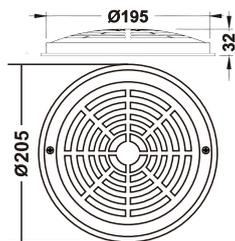
MODEL	CODE	MATERIAL	COLOR	CONNECTION SIZE	
				INNER DIA	OUTER DIA
MD0040	90602	ABS	White	1.5"	2"



MODEL	CODE	MATERIAL	COLOR	THREADED	INNER Ø	HEIGHT
HT-1019-48	81008	ABS	White	No	48mm	89mm
HT-1019-63	81005	ABS	White	No	63mm	99mm



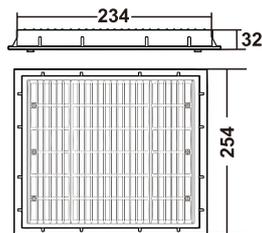
Suction Fitting



MODEL	CODE	MATERIAL	COLOR
HT-1030	81012	ABS	White



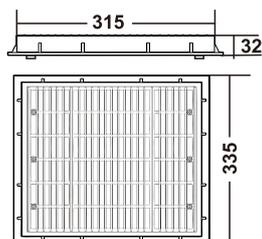
Square Main Drain(S)



MODEL	CODE	MATERIAL	COLOR
HT-1031	81013	ABS	White



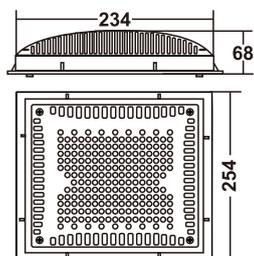
Square Main Drain(L)



MODEL	CODE	MATERIAL	COLOR
HT-1032	81014	ABS	White

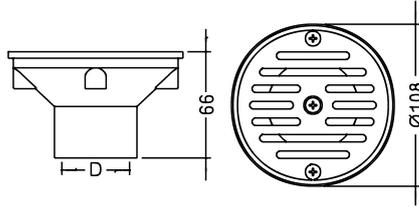


Anti-Vortex Square Main Drain

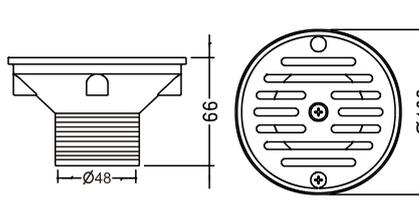


MODEL	CODE	MATERIAL	COLOR
HT-1031B	81015	ABS	White

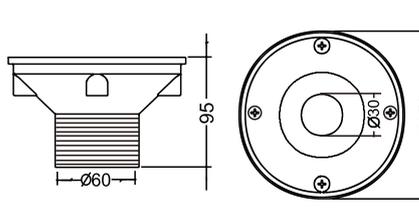
Inlet Fitting


Wall Return


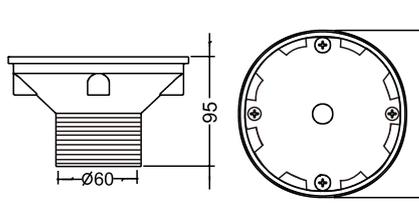
MODEL	CODE	MATERIAL	COLOR	THREADED IN & OUT	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1424N (Imperial)	81000	ABS	White	No	1.5"	2"
HT-1424N (Metric)	81000	ABS	White	No	50mm	60mm


Wall Return


MODEL	CODE	MATERIAL	COLOR	THREADED IN	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1424SM (Imperial)	81002	ABS	White	No	1.5"	2"
HT-1424SM (Metric)	81002	ABS	White	No	50mm	60mm
HT-1424A (Imperial)	81001	ABS	White	Yes	1.5"	2"
HT-1424A (Metric)	81001	ABS	White	Yes	50mm	60mm


Wall Return


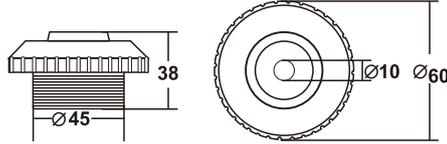
MODEL	CODE	MATERIAL	COLOR	THREADED IN & OUT	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1619 (Imperial)	81003	ABS	White	Yes	1.5"	2"
HT-1619 (Metric)	81003	ABS	White	Yes	50mm	60mm


Wall Return


MODEL	CODE	MATERIAL	COLOR	THREADED IN & OUT	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1625 (Imperial)	81004	ABS	White	Yes	1.5"	2"
HT-1625 (Metric)	81004	ABS	White		50mm	60mm



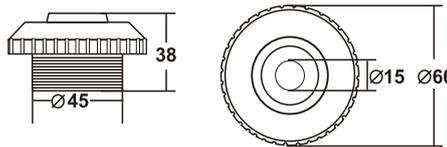
Return Inlet



MODEL	CODE	MATERIAL	COLOR	THREADED IN & OUT	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1419B (Imperial)	81021	ABS	White	Yes	1.5"	2"
HT-1419B (Metric)	81021	ABS	White		50mm	60mm



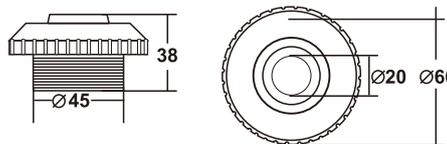
Return Inlet



MODEL	CODE	MATERIAL	COLOR	THREADED IN & OUT	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1419C (Imperial)	81019	ABS	White	Yes	1.5"	2"
HT-1419C (Metric)	81019	ABS	White		50mm	60mm

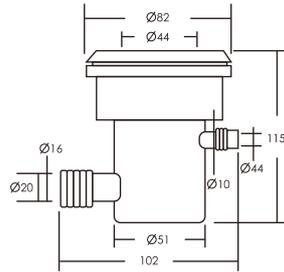


Return Inlet



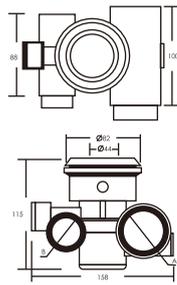
MODEL	CODE	MATERIAL	COLOR	THREADED IN & OUT	CONNECTION SIZE	
					INNER Ø	OUTER Ø
HT-1419D (Imperial)	81020	ABS	White	Yes	1.5"	2"
HT-1419D (Metric)	81020	ABS	White		50mm	60mm

Body Assembly: MOQ 200pcs



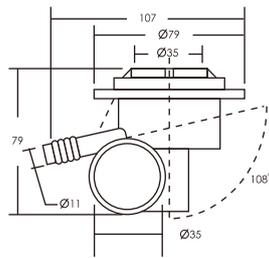
Air & Water Ell Body

MODEL	CODE	MATERIAL	COLOR
MD0021	80037	ABS	White



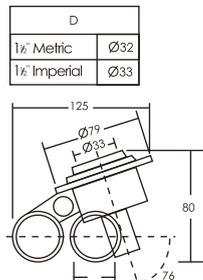
Air & Water Tee Body

MODEL	CODE	MATERIAL	COLOR
MD0031	80090	ABS	White



Barb Air & Water

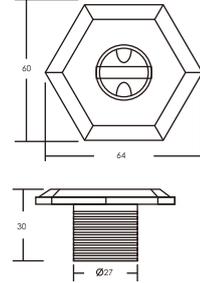
MODEL	CODE	MATERIAL	COLOR
MD1148	81058	ABS	White



Air & Water Tee Body

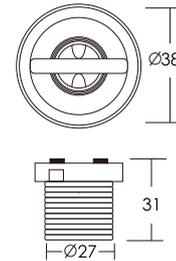
MODEL	CODE	MATERIAL	COLOR
MD1138	81057	ABS	White

Face Assembly: MOQ 200pcs



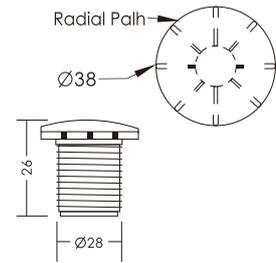
Face (Swirl Jet) With Gasket

MODEL	CODE	MATERIAL	COLOR
MD2205	81069	ABS	White



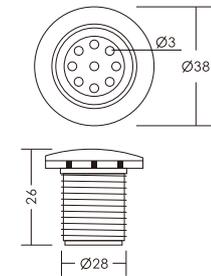
Face (Swirl Jet) With Gasket

MODEL	CODE	MATERIAL	COLOR
MD2206	81073	ABS	White



Face (Radial Air Jet) With Gasket

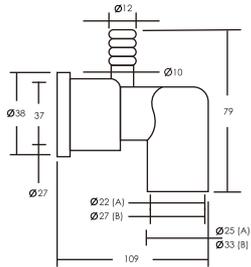
MODEL	CODE	MATERIAL	COLOR
MD2209	81070	ABS	White



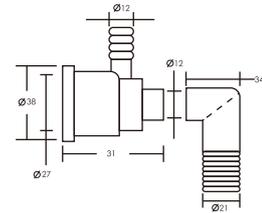
Face (Air Jet) With Gasket

MODEL	CODE	MATERIAL	COLOR
MD2211	80050	ABS	White

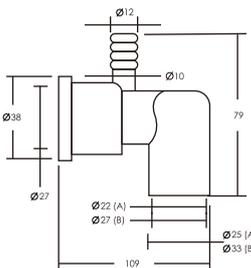
Ell Body Assembly: MOQ 200pcs



MODEL	CODE	MATERIAL	COLOR
MD2201(A)	81065	ABS	White

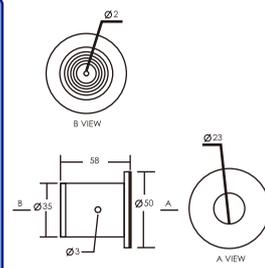


MODEL	CODE	MATERIAL	COLOR
MD2203(A)	81068	ABS	White

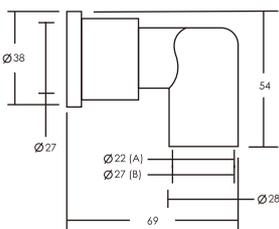


MODEL	CODE	MATERIAL	COLOR
MD2201(B)	81066	ABS	White

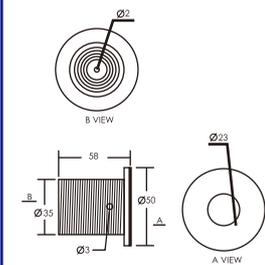
Air System



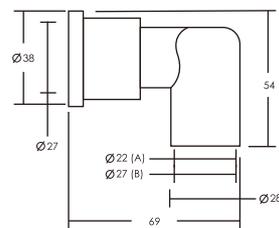
MODEL	CODE	MATERIAL	COLOR
MD1844	60938	ABS	White



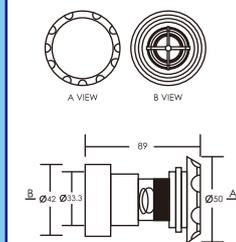
MODEL	CODE	MATERIAL	COLOR
MD2202(A)	61067	ABS	White



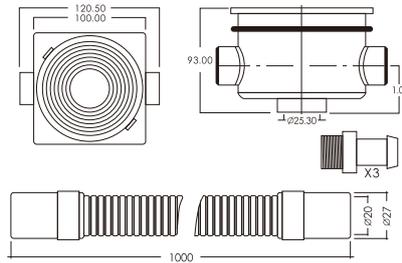
MODEL	CODE	MATERIAL	COLOR
MD1845	81063	ABS	White



MODEL	CODE	MATERIAL	COLOR
MD2202(B)	81037	ABS	White

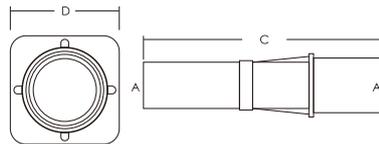


MODEL	CODE	MATERIAL	COLOR
MD1834	80047	ABS	White



MODEL	CODE	MATERIAL	COLOR
MD2823	80055	ABS	White

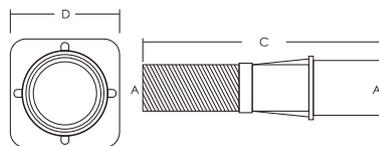
MD00324E : Wall Conduit Non-Threaded Fitting (Slip Fit)



Made of grey ABS, length 300mm, $\varnothing 2''$ smooth inner wall for gluing slip fit inlets or mini dichromatic lights.

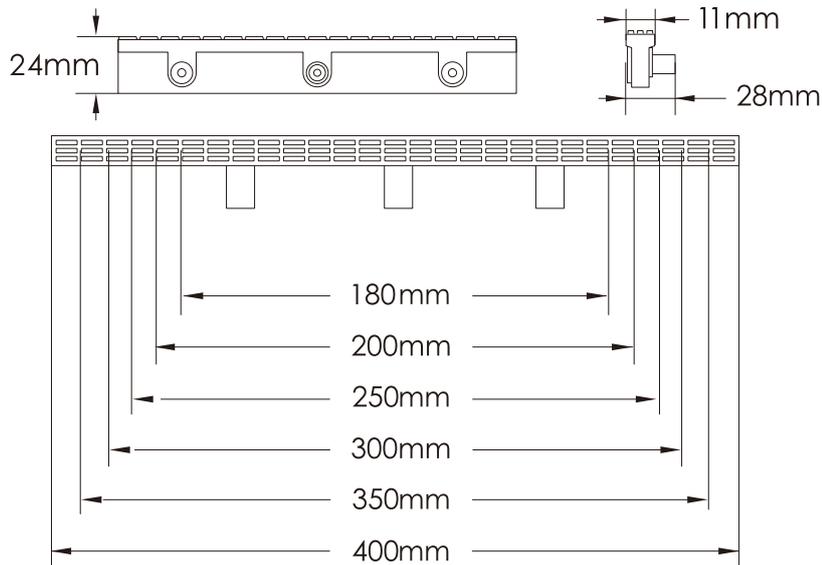
MODEL	CODE	MATERIAL	COLOR	A(mm)	B(in)	C(mm)	D(mm)
MD00324E	80040	ABS	Grey	50	2	300	80

MD00324 : Wall Conduit Threaded Fitting



Made of grey ABS, length 300mm, 50mm rear male thread and $\varnothing 2''$ female threaded connection for threaded inlets or mini dichromatic lights.

MODEL	CODE	MATERIAL	COLOR	A(mm)	B(in)	C(mm)	D(mm)
MD00324	81036	ABS	Grey	50	2	300	80



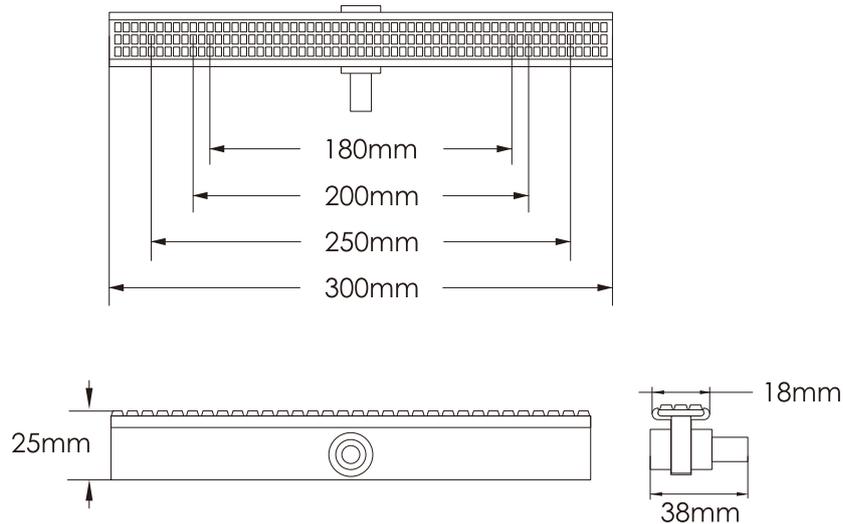
We offer the most versatile and flexible grating. Individual units snap together along a central spine to form a flexible continuous run.

The individual unit design allows for easier installation and determination of length, eliminating the need for any cutting. Grating is constructed by injection molding from polypropylene plastic with UV inhibitors for maximum resistance to different weather conditions.



Specification

DESCRIPTION	180	200	250	300	350	400
Part No.	81044	81045	81046	81047	81048	81049
Colour	White					
Material	PP					

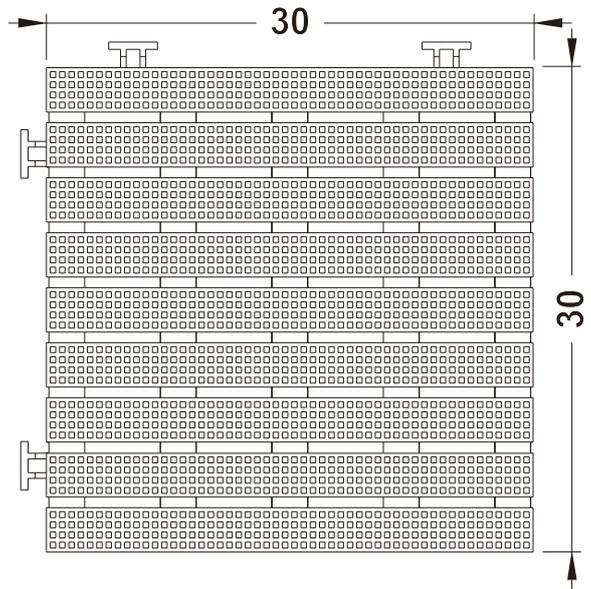


40 pieces per meter, this compound drainage grid is made of high quality ABS material and supported with aluminium. It is UV-resistant, durable, non-break, and safe. It's unique silver edge provide a beautiful and luxury appearance.

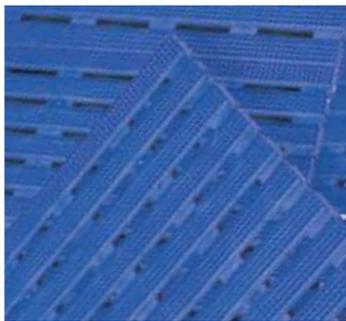


Specification

DESCRIPTION	180mm	200mm	250mm	300mm
Part No.	81040	81041	81042	81043
Colour	White/Blue/Grey/Green/Dark Green/Orange			
Material	ABS with Aluminium Back			



40 pieces per meter, this compound drainage grid is made of high quality ABS material and supported with aluminium. It is UV-resistant, durable, non-break, and safe. It's unique silver edge provide a beautiful and luxury appearance.



Specification

DESCRIPTION	FLOOR MAT
Part No.	81039
Colour	Blue
Material	PVC

Standard leaf skimmer



MODEL	CODE
CM026	80004

Heavy duty leaf skimmer



MODEL	CODE
CM066	80018

Deep bag skimmer



MODEL	CODE
CM034	80009

Heavy duty deep rake



MODEL	CODE
CM065	80017

Wall brush in PVC (10" - 26cm)



MODEL	CODE
CM085	80020

Deluxe wall brush with painted aluminium back (18" - 45cm)



MODEL	CODE
CM025	80002

Standard curved wall brush in PVC (18" - 45cm)



MODEL	CODE
CM036	80010

10" / 18" Stainless steel algae brush



MODEL	CODE
CMS085	80021

Triangular liner vacuum head with swivel (Sand Weighted)



MODEL	CODE
CM048	80011

Deluxe transparent cast iron weighted vacuum head



MODEL	CODE
CM052	80015

Deluxe liner vacuum
(Cast iron weighted)



MODEL	CODE
CM023	90603

Deluxe liner vacuum with side brush
(Cast iron weighted)



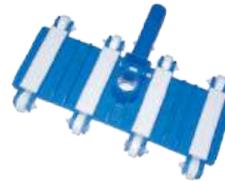
MODEL	CODE
CMS023	80001

Flexible vacuum head with side
Brush for in-ground pool



MODEL	CODE
CMS051	80014

Flexible vacuum head for
in-ground pool



MODEL	CODE
CM051	80013

Telescopic pole



MODEL	CODE	DESCRIPTION
	80028	2 x 120cm
	80029	2 x 180cm
CM132	80030	2 x 240cm
	80031	2 x 350cm
	80032	3 x 100cm

Vacuum hose
(9m / 11m / 13m / 15m / 20m / 30m)



MODEL	CODE	DESCRIPTION
CM156	80022	Blue - 9m
	80023	Blue - 11m
	80024	Blue - 13m
	80025	Blue - 15m
	80026	Blue - 15m (Dual layer)
	98066	Blue - 20m
	80027	Blue - 30m
	80028	Blue - 30m (Dual layer)

Basic PH & CL Test Kit



MODEL	CODE
CM029	80008

Deluxe Chemical
Dispenser (5" / 7" / 9")



MODEL	CODE	DESCRIPTION
CM027	80005	5"
	80006	7"
	80007	9"

Deluxe floating thermometer with
string attachment



MODEL	CODE
CM084	80019

Floating animal
thermometer in 4 Styles



MODEL	CODE	DESCRIPTION
CM083	90604	Fish/Whale/Duck/Turtle



**FILTER TOOL & COMPETITION
EQUIPMENTS**

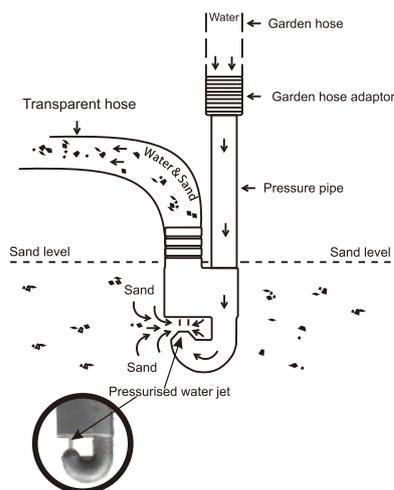
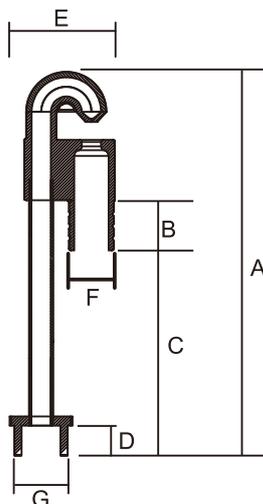


TRANSANDER™ is a tool designed to assist pool technicians to reduce physical hard work when replacing existing media filters or performance media change for media filters. It does not require electricity, simply connect a garden hose and it will start to suck the sand or glass media out from the filter with pressurized water jet.

Specification

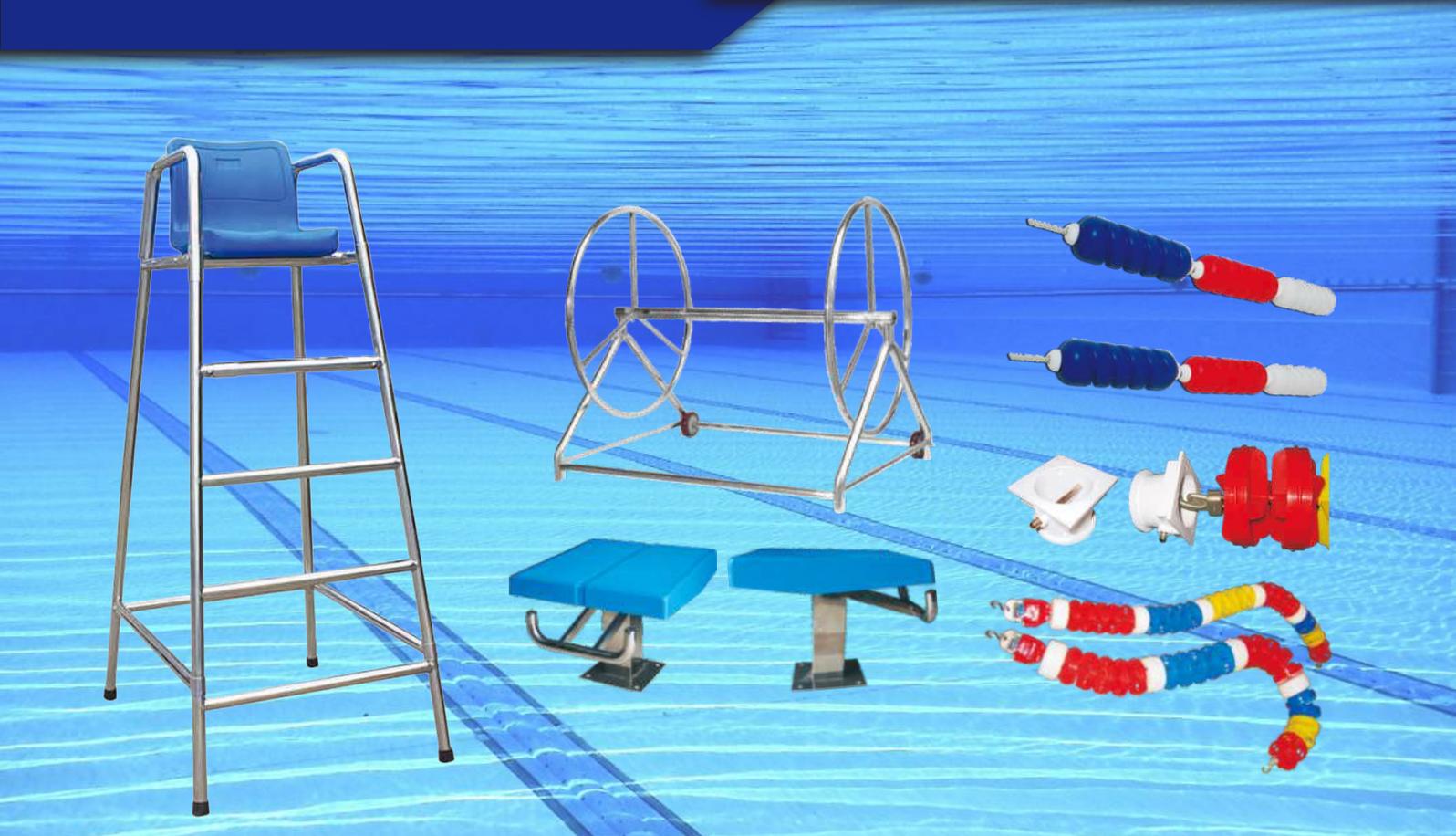
Model	Code	Input Flow Rate	Sand Output	Suitable Sand Grade	Material	A	B	C	D	E	F	G
		l/min	kg/min	mm		mm						
MTS-01	70594	11	10	0.8 - 2.0	SS304	165	25	75	18	45	22	26

Dimensions



Warranty

Multiport Valve 1 year



Specification & Dimensions

Model	Code	Dimension	Discription
Racing Lane	Y20004~Y20007	150mm	
Racing Lane	Y20000~Y20003	120mm	
Racing Lane	Y20018	110mm	S - hooks included
Floating Lane	Y20012~Y20015	90mm	
Floating Lane	Y20008~Y20011	60mm	
Tensioner	Y20016		
Hook	Y20017		"S" Shape Hook
Plastic Anchor Cup	MD-AC01		Two Pieces for Each Lane
SS Lane Rope Roller	MD-RR01	50m Lane	Stainless Steel Lane Rope Roller

Starting Block and Lifeguard Chair			
Starting Block	M-STB	500mm (L) x 500mm (W) x 420cm (H)	Stainless Steel Underframe Starting Block (Blue)
Lifeguard Chair	MC-LC01	850cm (L) x 970cm (W) x 1800cm (H)	Stainless Steel Lifeguard Chair (Blue)

Disclaimer Policy

The information contained within this catalogue and the functions offered are intended to provide information about products available for purchase from Minder Water Industries Pty. Ltd. All reasonable efforts have been made to ensure the accuracy of the information. However Minder cannot be held responsible for any errors or unexpected un-fulfilment of shipments. Minder does not warrant the accuracy and reserves the right to make changes to the catalogue and its function at any time without notice.

Except where otherwise noted or superseded by process of law, minder accepts no responsibility or liability for any losses or damages of any kind arising out of the use of this catalogue or any of OTS related function.

Product Warranty

Lost or Damaged of Goods Policy

Our responsibility for any shipment ceases when the carrier signs the Bill of Lading. Thoroughly inspect each shipment immediately upon arrival.

If cartons, packages, or crates are received in short or damaged condition, it is important that you notify the driver and insist on a notation of the loss or damage across the face of the delivery receipt; otherwise, no claim can be enforced against the carrier.

If concealed loss or damage is discovered, you must notify the carrier at once and request an inspection. It is also important that you do not discard the shipping carton or container. A concealed damage report must be made within fifteen (15) days of delivery of the shipment. If this is not done, the carrier will not entertain any claim for the loss. The carrier agent will make an inspection and usually will grant a concealed damage notation. If you give the carrier a clear receipt for the goods that have been damaged in transit, you do so at your own risk and expense.

We are willing to assist you in every possible manner to collect claims for loss or damage, but our willingness does not make us responsible for collection of claims or replacement of material.

Warranty Coverage

If a defect occurs in any Minder product during the warranty period, Minder will at its discretion, repair the product or replace and install the defective part, free of charge provided that the defect results solely from poor workmanship or materials and subject to these terms and conditions. Customer will need to follow the below warranty claim process from Minder in order to obtain the benefit of this warranty. Minder is not, however, responsible under this warranty for any cost of shipping or transportation for the return of the products to Minder and the delivery of repaired or replacement product to customer. Minder shall not be liable for any loss of time, inconvenience, incidental expenses such as labour cost, phone calls, legal cost or material cost incurred in connection with the replacement or removal of the product, and any other consequential or incidental damage on persons or assets. Minder will not be responsible for any business profit loss due to operation stop and the non-conformity product. No indemnity or damages can be claimed on any account whatsoever.

Warranty Period

All products sold by Minder are covered by a one year warranty. The exceptions to this are the products listed in the schedule (which also specifies relevant warranty periods). All warranty periods commence on the date of invoice.

Product	Warranty Period
Filters	1 Year (Valve : 1 year)
Pumps	2 Years (O-ring, Gasket, Seal, motor - 1 year)
Underwater Lights	1 year (Bulbs - 90 days)
Pool Ladders	1 year
Water Management System	1 year
Chlorine Generator	1 year
UV Lights	1 year
Fittings	1 year
Cleaning Equipment & All Others	1 year

Conditions of Warranty

This warranty only applies where:

1. The products requiring installation have been sold with installation included and have been installed by a licensed plumber, electrician, technician or a person supervised by one of these people, in accordance with any written installation instructions provided.
2. The products have been operated in accordance with written instructions supplied by Minder;
3. The products has been serviced and maintained regularly. (at least once a month)
4. Any pump has not been allowed to run dry or to run on electrical extension cord.
5. Any pool and spa equipment has been used in water with a temperature not exceeding 40 degrees Celsius and non-salt water (except mild saline water which are compatible with swimming pool salt water chlorination systems), unless otherwise stated by Minder in both the respective product labels and brochures that it is suitable for seawater applications.

Exclusions

This warranty does not cover, and Minder will not be responsible for, any defect or damage caused or contributed to by:

- a) Installation or use of the product other than in accordance with Minder's written instructions, any statutory requirements and these terms and conditions;
- b) Use of the product for a purpose other than for which it was designed or sold;
- c) Abuse, misuse, corrosion, internal and external, or normal wear and tear;
- d) Any repairs or modifications whatsoever carried out by any person, other than a Minder authorized service dealer;
- e) Damage caused by careless handling, improper repackaging or shipping;
- f) Damage caused by failure to maintain water chemistry in conformity with the standards of the swimming pool industry for any length of time.
- g) Damage due to unauthorized product modifications or failure to use original replacement parts from Minder.
- h) Damage caused by negligence or failure to properly maintain products as specified in the Minder's written instruction.
- i) Damage caused by misapplication of electricity, natural calamities, or physical force.
- j) Damage caused by water freezing inside the product.
- k) Accidental damage, fire or other circumstances outside the control of Minder.

Claim Process

Minder's Claim Process in 3 steps:-

1. Customer contacts Minder's salesperson and provides completed details of the claim which includes:
 - Description of the complaint/failure
 - Information about the failed/damaged products e.g. the product part number(s) and serial number(s)
 - Relevant photos/videos (good quality images/ videos)
2. Minder Quality Assurance Department will review the claim in accordance to the "Minder Warranty Policy" in the 2019 Minder Product Catalogue.
3. After investigation, Minder will inform the customer of the said claim and follow up with the customer accordingly.

Minder Water Industries reserves the final right to exercise all warranties in case of disputes.

Purchasing Terms and Conditions – MINDER WATER INDUSTRIES

Prices	All prices are in USD, except when otherwise specified (Other currency usage has to be agreed on the exchange rate). All prices are excluding VAT, value added tax. Price is Ex Works and all local taxes and charges are excluded. Freight is not included. For certain items there could be a packaging fee.
Terms of payment	MINDER standard payment term is 30% deposit payment and 70% balance payment before delivery. All orders are to be confirmed with at least 30% deposit payment if nothing else is agreed to. Date of dispatch is based on date of deposit. All items remain the property of MINDER until paid in full. We reserve the rights to demand return shipment of any unpaid items. Past due accounts are charged 2% per month.
Delivery delay	Normal delivery delay, date for dispatch, for in-stock items is 1 week from firm order, taken into account certain backorders. Part shipments are possible if purchaser does not specify otherwise. Date of dispatch might be specified differently for all non-in-stock items, indicated in offer or communications.
Warranty	<p>All products have it's specific warranty period. This warranty is not valid if the products have been used differently than instructions or differently from expected usage.</p> <p>Our responsibility is limited to shipment of new products only. Any return for repair or reimbursement has to be pre-approved, and subject to our evaluation only. In no case can we be held responsible for direct or indirect injuries, secondary injury or losses to the buyer.</p> <p>For complete products warranty policy, please refer to MINDER's "Warranty Policy 2020".</p>
Transport	If nothing else has been agreed products are delivered Ex-Works our facilities. The freight company is responsible for delivery according to his delivery terms, and any transport damages shall be dealt with the freight company directly. When we arrange for transport the responsibility is according to national and international conventions for transport. Any delay on transportation availability will not be held accountable by MINDER WATER INDUSTRIES.
Returns	All complaints regarding transport shall be done in writing within 4 days of delivery. All damages during shipment shall be indicated at reception on the shipping documents before accepting the goods. Any invoicing complaint is to be done within 8 days of reception.
Changes without Notification	We reserve the rights to change constructions, dimensions and information in this price list, as well as prices, without prior notification. We reserve the rights for possible printing and information errors in pricelist

General Terms and Conditions for Delivery – MINDER WATER INDUSTRIES

Applicable	These general terms and conditions for delivery are to be applied to all MINDER deliveries. Any exceptions to these terms and conditions are to be agreed upon in writing in order to be valid.
Delivery	All deliveries are Ex Work MINDER's place of inventories (INCOTERMS 2018).
Delays	<p>In case of delays, that is that MINDER fails to deliver within an agreed time frame for delivery, the buyer reserves the right to, by written notification only, inform MINDER of a reasonable date for delivery and to inform MINDER of their intentions to cancel order if said reasonable date for delivery is not met. If so, the buyer reserves the right for cancellation of the contract, but only for said products.</p> <p>If the buyer cancels the agreement according to the delays above, he reserves a right for compensation from MINDER but only for the additional costs absorbed due to the delay and proven that it was necessary to purchase these products from another supplier. By doing so, the buyer cannot claim other compensations for delays from MINDER. If the buyer does not cancel the agreement, he is not eligible for compensation due to the delays.</p>
Price adjustment	If customs and duties, taxes or other fees, are changed after the price has been agreed upon, the price will be adjusted accordingly.
Full Payment and Reserved rights of ownership	30% deposit upon order confirmation and 70% balance payment before delivery are the norm unless agreed upon. After 30 days from the date of delivery, a 2 % interest rate is applicable on all unpaid accounts. MINDER reserve the right to ownership of all products sold until full payment has been received.
Responsibility for damaged or defective products	<p>MINDER agrees to that within the warranty period from invoice date, exchange products that are defective or damaged when received by buyer.</p> <p>For complete products warranty policy, please refer to MINDER's "Warranty Policy 2020".</p>
Force Majeure	MINDER cannot be held responsible for any breach of contract if the circumstances are such that they are beyond our control, in case of a general strike, lockout, war, fire and wrongful or delayed deliveries from a MINDER supplier.
Applicable jurisdiction	Any disagreement shall be judged according to Australian law.



MINDER

WATER INDUSTRIES



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