



PRICE BOOK

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Scan the QR code to check current prices:



We can solve your water, sewage & effluent problems.

The **Penstar** range of suppliers is virtually unlimited and so we are able to make recommendations based on the best pump for the application.

We supply our own range of pumps and in addition we are distributors or stockists for many major pump manufacturers i.e. Grundfos, Xylem Lowara, Xylem Flygt, Espa, Ebara, Mono, ABS, Robbins & Myers, KSB, Calpeda, CAT.

**We are offering a 2 year warranty on many of the pumps in our own range, at a small extra charge - see price details.*



WATER SUPPLY

Pumping systems for wells, boreholes or storage tanks, controlled by pressure set, constant pressure control, float switch or timer panel.

Single or dual booster sets for pressurisation of mains or private water for industrial, agricultural and domestic applications.



BOREHOLES

The complete borehole service including drilling, installation of pumping system, any necessary water treatment and, where required, licence applications.



WASHDOWN

Systems for dairies, vehicle wash or industrial use, including distribution pipework and hoses.



WATER TREATMENT

Full range of treatment systems for purification and chemical treatment including chemical dosing pumps.

Routine service including replacement of consumable parts to ensure the system continues to function properly.



SEWAGE AND EFFLUENT

Pumping stations to transfer raw sewage to the mains drain or a treatment plant and sewage effluent to a soakaway.

Package sewage treatment plant.

Also transfer pumps for farm or industrial effluent.



IRRIGATION

Pumping systems for golf courses, bowling greens, market gardens, lawns etc. with automatic irrigation control.

Full range of standard and commercial sprinklers and irrigators.

Also dirty water irrigation (low rate) on farms

Much of the equipment listed on the following pages is held in stock at our premises. Unless otherwise stated, all equipment is single phase but three phase is available on request.

ALL PRICES ARE SUBJECT TO VAT AT THE CURRENT RATE.

Prices quoted are current as per the front cover sheet date.

The prices and specifications in this leaflet are subject to change without notice.

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Self-Priming Pumps

Penstar



Penstar Economy Range						7
Model	Material	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
JM60	Cast iron	0.45	40	50	£260.00	39
JM100	Cast iron	0.75	45	60	£266.00	39.9
JX80	Stainless steel	0.6	42	40	£267.00	40.05
JX100	Stainless steel	0.75	45	60	£270.00	40.5



Pentax Self-priming Pumps						7
Model		kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
CAB150	Cast iron	1.1	61	90	£620.00	93
CAB200	Cast iron	1.65	63	110	£627.00	94.05
CAB300	Cast iron	2.2	65	140	£818.00	122.7
MPX100	Stainless steel	0.74	45.5	80	£418.00	62.7
MPX120	Stainless steel	0.88	56	80	£432.00	64.8

Ebara Cast Iron self-priming pumps – POA

Lowara Stainless Steel self-priming pumps – POA

Penstar Solids Handling Pumps						7
Model		kW	Max. Head m	Max Flow l/min	PRICE	
ORA-2	Cast iron	1.5	18	450	£851.00	

Other sizes available – POA



Penstar Transfer Pumps						7
Model		kW	Max. Head m	Max Flow l/min	PRICE	
TPM25	Bronze	0.44	12	40	£242.00	
TPM25CE	Bronze	0.6	25	41	£1.00	
TPM30	Bronze	0.75	15	83	£331.00	



Peripheral Pumps

Penstar

With Cast Iron Body 7				
Model	kW	Max. Head m	Max Flow l/min	PRICE
Penstar PM60	0.37	38	35	£120.00
Lowara PM21	0.37	47	40	£732.00
Lowara PM30	0.5	57	50	£971.00
Lowara PM40	0.6	62	50	£1,132.00
Lowara PM60	1.1	77	62	£1,473.00
Lowara PM70	0.75	103	35	£1,864.00



End-Suction Pumps

Penstar Cast Iron Pump 7				
Model	kW	Max. Head m	Max Flow l/min	PRICE
CM50	0.37	22	90	£244.00
CM100	0.75	32	100	£300.00
CM160	1.1	36	170	£465.00
CB200	1.5	58	180	£571.00
CH150	1.1	25	500	£527.00
CH200	1.5	29	500	£549.00
CH300	2.2	33	500	£961.00



Ebara Cast Iron end-suction pumps – POA

Ebara Pumps with Stainless Steel Body 6				
Model	kW	Max. Head m	Max Flow l/min	PRICE
CDXM70/05	0.37	21	90	£635.00
CDXM70/07	0.55	28	80	£646.00
CDXM90/10	0.75	31	110	£825.00
CDXM120/07	0.55	21	180	£913.00
CDXM120/12	0.9	30	160	£1,023.00
CDXM120/20	1.5	38	160	£1,212.00
CDXM200/12	0.9	21	250	£1,081.00
CDXM200/20	1.5	31	250	£1,216.00
2CDXM70/10	0.75	39	80	£854.00
2CDXM70/12	0.9	45	80	£916.00
2CDXM70/15	1.1	53	80	£973.00
2CDXM70/20	1.5	60	80	£1,050.00
2CDXM120/15	1.1	42	150	£1,116.00



Horizontal Multistage Pumps

Penstar

Penstar Cast Iron/Stainless Steel Body 7

Model	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
STO200	1.5	68	160	£757.00	113.55
STO300	2.2	74	160	£969.00	145.35



Penstar Stainless Steel Body 7

Model	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
Ultra3-5	0.75	55	80	£395.00	59.25
Ultra3-7	1.1	80	80	£656.00	98.4
Ultra5-4	0.9	45	140	£399.00	59.85
Ultra5-5	1.1	57	140	£567.00	85.05
Ultra5-7	1.5	81	140	£680.00	102
Ultra7-5	1.85	60	170	£609.00	91.35
Ultra7-6	2.2	72	170	£891.00	133.65
Ultra9-5	1.85	60	240	£646.00	96.9



Lowara HM pumps – POA

Vertical Multistage Pumps

Penstar Stainless Steel units 6

Model	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
VS2-11	1.1	98	58	£1,425.00	213.75
VS2-15	1.5	134	58	£1,703.00	255.45
VS2-22	2.2	197	58	£1,931.00	289.65
VS4-8	1.5	74	133	£1,592.00	238.8
VS4-12	2.2	114	133	£1,743.00	261.45
VS8-6	2.2	62	200	£1,904.00	285.6
VS8-8-3~	3	83	200	£2,196.00	329.4
VS8-10-3~	4	104	200	£2,681.00	402.15
VS8-15-3~	5.5	155	200	£3,560.00	534
VS16-4-3~	4	56	366	£2,378.00	356.7
VS16-6-3~	5.5	84	366	£2,979.00	446.85
VS16-8-3~	7.5	112	366	£3,372.00	505.8
VS20-10-3~	11	137	466	£4,767.00	715.05



Vertical Multistage Pumps

Penstar

Penstar unit with plastic impellers 7					
Model	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
Ultra L5-10	2.2	112	140	£1,109.00	166.35
Ultra L5-11	2.57	122	140	£1,162.00	174.3
Ultra L7-5	1.85	62	170	£745.00	111.75
Ultra L7-6	2.2	75	170	£995.00	149.25



Lowara Stainless Steel units 6				
Model	kW	Max. Head m	Max Flow	PRICE
			l/min	
1SV15	0.75	90	40	£1,794.00
1SV22	1.1	135	40	£2,256.00
1SV30	1.5	181	40	£2,901.00
1SV37	2.2	225	40	£3,405.00
3SV07	0.75	52	73	£1,571.00
3SV10	1.1	76	73	£1,830.00
3SV13	1.5	98	73	£2,330.00
3SV19	2.2	145	73	£2,683.00
5SV07	1.1	53	141	£2,084.00
5SV09	1.5	68	141	£2,374.00
5SV13	2.2	98	141	£2,640.00



Grundfos Stainless Steel/Cast Iron units 3				
Model	kW	Max. Head m	Max Flow l/min	PRICE
CRI 1-15	0.75	90	45	£1,643.00
CRI 1-23	1.1	138	45	£2,181.00
CRI 1-30	1.5	180	45	£2,810.00
CRI 1-36	2.2	220	45	£3,298.00
CRI 3-10	0.75	65	74	£1,485.00
CRI 3-15	1.1	98	74	£1,889.00
CRI 3-19	1.5	125	74	£2,374.00
CRI 3-29	2.2	190	74	£2,960.00
CRI 5-10	1.5	68	140	£2,019.00
CRI 5-16	2.2	108	140	£2,510.00



(Grundfos prices exclude counter flanges)

Other sizes are available in all ranges – POA

Swimming Pool Pumps

Penstar Swimming Pool Pumps					7
Model	kW	Max. Head m	Max Flow l/min	PRICE	
MICRO50	0.37	12	200	£289.00	
MINI50	0.37	15	233	£511.00	
MINI100	0.75	17	320	£558.00	
PP19	0.75	17	340	£276.46	
PP24	1.1	18	440	£299.69	
PP28	1.5	19	540	£321.07	



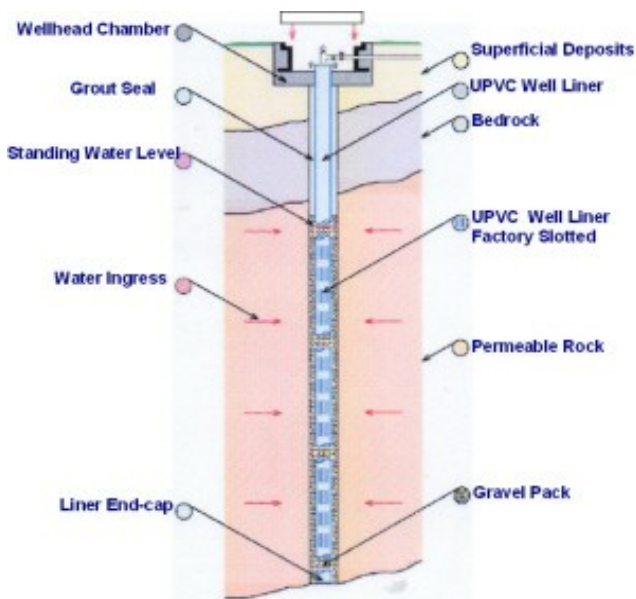
Ebara Swimming Pool Pumps					6
Model	kW	Max. Head m	Max Flow l/min	PRICE	
SWS50M	0.33	12	233	£548.00	
SWS75M	0.55	15	267	£566.00	
SWS100M	0.75	15	300	£576.00	
SWT75M	0.55	14	325	£651.00	
SWT100M	0.75	16	387	£716.00	
SWT150M	1.1	18	450	£778.00	
SWT200M	1.5	18	500	£863.00	
SWT300M	2.2	20	567	£1,067.00	





BOREHOLE WATER SUPPLY SYSTEMS

- ▶ *Replace or supplement an inadequate present supply.*
- ▶ *Save the cost of mains water.*
- ▶ *Ideal water supply to serve farms, irrigation systems, residential complexes and industry.*
- ▶ *Upgrade to a fully pressurised water supply.*



THE COMPLETE SERVICE

We provide your borehole water supply:

- A reliable divining and drilling service, we can obtain geological reports if necessary.
- Carry out site tests to establish yield and water quality, if required.
- Design a complete pumping and control system, to meet your needs.
- Supply all necessary pumping and control equipment.
- Provide a full installation and commissioning service.

When the need arises, we can also:

- We can liaise with the Environment Agency on your behalf if required, and submit drilling consents and abstraction licence applications for your new water supply.
- Design, supply, install and commission any water treatment that may be necessary to provide a high-quality drinking water supply.
- In the unlikely event of system difficulties, our trained technicians provide specialist on-site service, backed by our workshop testing and repairs facility and large stock of pump spares.

Borehole Pumps

Penstar

Penstar PS 3" Borehole Pumps 7
 Ideal for smaller diameter boreholes or for where the liner is damaged. Price includes motor control box.

Model	kW	Max. Head m	Max Flow l/min	PRICE
PS15	0.37kW	46	45	£807.00
PS23	0.55kW	70	45	£911.00
PS30	0.75kW	92	45	£994.00

Also: **Grundfos SQ** range of compact 3" pumps with a built-in electronic frequency inverter & dry-run protection.

Do not require separate control box – P.O.A.

Penstar ST 4" Borehole Pumps 7
 Fitted with plastic impellers and a water-cooled motor to provide an economic option for domestic and agricultural systems.
 Single phase price includes motor control box.

Model	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
ST05-13	0.37kW	86	25	£722.00	108.3
ST05-19	0.55kW	126	25	£796.00	119.4
ST05-26	0.75kW	173	25	£917.00	137.55
ST10-07	0.37kW	46	50	£689.00	103.35
ST10-10	0.55kW	69	50	£767.00	115.05
ST10-14	0.75kW	92	50	£831.00	124.65
ST10-20	1.1kW	139	50	£914.00	137.1
ST10-28	1.5kW	189	50	£1,112.00	166.8
ST13-11	0.75kW	72	70	£762.00	114.3
ST13-16	1.1kW	106	70	£853.00	127.95
ST13-21	1.5kW	142	70	£969.00	145.35
ST13-32	2.2kW	208	70	£1,239.00	185.85
ST18-18	1.5kW	120	100	£981.00	147.15
ST18-27	2.2kW	175	100	£1,235.00	185.25
ST25-08	0.75kW	51	110	£774.00	116.1
ST25-12	1.1kW	77	110	£873.00	130.95
ST25-16	1.5kW	102	110	£997.00	149.55
ST25-24	2.2kW	151	110	£1,259.00	188.85
ST25-32- 3~	3.0kW	203	110	£1,584.00	237.6
ST35-07	0.75kW	42	150	£750.00	112.5
ST35-10	1.1kW	62	150	£849.00	127.35
ST35-14	1.5kW	90	150	£981.00	147.15
ST35-20	2.2kW	125	150	£1,218.00	182.7
ST35-27- 3~	3.0kW	169	150	£1,551.00	232.65
ST35-36- 3~	4.0kW	221	150	£1,847.00	277.05



Penstar SP 4" Borehole Pumps 7					
Stainless steel with water cooled motor. Price includes control box.					
Model	kW	Max. Head m	Max Flow l/min	PRICE	Extended Warranty*
SP05-14	0.37kW	82	25	£966.00	144.9
SP05-21	0.55kW	121	25	£1,179.00	176.85
SP05-28	0.75kW	162	25	£1,382.00	207.3
SP10-09	0.37kW	53	40	£821.00	123.15
SP10-13	0.55kW	77	40	£952.00	142.8
SP10-18	0.75kW	106	40	£1,091.00	163.65
SP10-23	1.1kW	136	40	£1,272.00	190.8
SP10-28	1.5kW	166	40	£1,456.00	218.4
SP18-12	0.75kW	78	70	£983.00	147.45
SP18-18	1.1kW	117	70	£1,174.00	176.1
SP18-25	1.5kW	162	70	£1,412.00	211.8
SP18-33	2.2kW	212	70	£1,839.00	275.85



Grundfos SP 4" Borehole Pumps 3					
These pumps have provided reliable service for years. Control box is extra.					
Model	kW	Max. Head m	Max Flow l/min	PRICE	
				Pump	C/Box
SP1A/14	0.37kW	80	25	£1,195.00	£210.00
SP1A/21	0.55kW	120	25	£1,352.00	£240.00
SP1A/28	0.75kW	160	25	£1,513.00	£279.00
SP2A/6	0.37kW	35	45	£1,045.00	£210.00
SP2A/9	0.37kW	52	45	£1,097.00	£210.00
SP2A/13	0.55kW	76	45	£1,234.00	£240.00
SP2A/18	0.75kW	106	45	£1,356.00	£279.00
SP2A/23	1.1kW	135	45	£1,525.00	£372.00
SP2A/28	1.5kW	165	45	£1,750.00	£465.00
SP3A/12	0.75kW	72	70	£1,383.00	£279.00
SP3A/18	1.1kW	110	70	£1,585.00	£372.00
SP3A/25	1.5kW	152	70	£1,867.00	£465.00
SP3A/33	2.2kW	205	70	£2,925.00	£534.00



Waterproof Cable (4-core H07-RNF)

Core Size	PRICE Per metre
1.5mm ²	£5.00
2.5mm ²	£6.00
4.0mm ²	£10.00
6.0mm ²	£13.00

Lowara GS 4" Borehole Pumps 6
 Water cooled motor, stainless steel construction, food grade polycarbonate and fibreglass resin impellers and diffusers. Price includes motor control box.

Model	kW	Max. Head m	Max Flow l/min	PRICE
1GS03	0.37kW	79	22	£758.00
1GS05	0.55kW	119	22	£806.00
1GS07	0.75kW	159	22	£926.00
2GS02	0.37kW	33	50	£780.00
2GS03	0.37kW	47	50	£823.00
2GS05	0.55kW	67	50	£886.00
2GS07	0.75kW	93	50	£1,024.00
2GS11	1.1kW	133	50	£1,113.00
2GS15	1.5kW	187	50	£1,343.00
4GS07	0.75kW	60	90	£955.00
4GS11	1.1kW	94	90	£1,199.00
4GS15	1.5kW	127	90	£1,476.00
4GS22	2.2kW	181	90	£1,754.00



Mono Subrotor 4" Borehole Pumps 8
 This pump is a progressing cavity rotor/stator and is particularly suitable for boreholes with silt, sand or ochre content as it is less prone to blockage.

Model	kW	Max. Head m	Max Flow l/min	PRICE Pump	C/Box
SM022	0.75kW	150	20	£1,367.00	£125.00
SM041	0.75kW	75	40	£1,322.00	£125.00
SM042	1.5kW	150	40	£1,490.00	£129.00
SM061	1.1kW	75	60	£1,414.00	£127.00
SM062	2.2kW	150	60	£1,707.00	£166.00
SM101	1.5kW	75	96	£1,950.00	£129.00
SM102	2.2kW	150	96	£0.00	£166.00
SM151	2.2kW	75	120	£2,334.00	£166.00



Submersible Well Pumps

Penstar 4PN20 4" Submersible Pumps 7

Model	kW	Max. Head m	Max Flow l/min	PRICE
4PN20	0.75kW	61	45	£369.00
4PN2011	1.1kW	99	45	£383.00



- Pressurisation of mains or private water for Hotels & Holiday Complexes
- Agricultural Water Supply from Wells or Boreholes
- Domestic Water Supply from Wells or Boreholes
- Packages Sets for Pressurisation of Industrial Water Supplies
- Variable speed systems for energy saving and precise control
- Multiple Pump Systems with programmable control

Flow Demand Systems:

A single pump can be operated using a Presscontrol electronic regulator to switch the pump and provide dry-run (no-flow) protection.

Fixed Speed Pressure Set:

A conventional pressure set provides on/off control using a pressure switch, with a vessel to provide some storage.

The larger the pressure vessel that is used, the less frequently the pump switches on and off.



We offer these systems with a variety of pumps ranging from the domestic self-priming units to the vertical multistage sets.

We also offer systems with 2 or more pumps, set so that if 1 pump fails to meet the demand a second pump will start, alternating to even wear.

Variable Speed Pumping Sets:

An advance on conventional on/off control uses a pressure transducer and inverter drive to vary the operating speed of the pump(s) and provide a constant pressure system.

This provides a better control on the system with little or no variation in pressure.

Considerable savings can be achieved if variable speed dual and larger units are used when the demand on the system is variable, eg in a holiday or residential complex.



Single Pump Booster Sets

Penstar

Flow demand	Controller to switch on the pump at 6bar and switch off when the flow stops. Economy unit as standard.
24l pressure set	The vessel is fitted on top of the pump with pressure switch to operate the pump between 2 set points.
80l pressure set	The vessel is fitted under the pump with pressure switch to operate the pump between 2 set points.
300l pressure set	The vessel stands alongside the pump with pressure switch to operate the pump between 2 set points.
Variable speed	Inverter control with pressure transducer and small vessel, to provide a constant pressure system.

Single Phase Domestic Pumps				6	6	5	
PUMP	Motor kW	Maximum		Flow Demand Controller*	Pressure Set		Variable Speed
		Litres /min	Pressure bar		**24l Vertical	***80l Horizontal	
PM60	0.37	35	3.0	£187	£301	<i>Not recommended</i>	
JM60	0.45	40	4.0	£327	£425	£608	n/a
JM100	0.75	50	5.0	£329	£427	£610	£1,053
JX80	0.6	55	3.7	£334	£448	£631	n/a
JX100	0.75	50	5.0	£337	£451	£634	n/a
MPX100	0.74	80	4.5	n/a	£599	£782	n/a
MPX120	0.88	80	6.0	n/a	n/a	£796	n/a
Horizontal Pumps				6	5	6	5
PUMP	Motor kW	Maximum		Single phase		Three phase	
		Litres /min	Pressure bar	Pressure set 80l***	Variable Speed	Pressure set 80l***	Variable Speed
JCAB150	1.1	90	6.0	£1,120	£1,611	£1,101	£1,643
JCAB200	1.5	110	6.2	£1,127	£1,620	£1,110	£1,652
Ultra 3-5	0.75	80	5	£759	£1,303	£886	£1,437
Ultra 3-6	0.9	80	6	£803	£1,420	£930	£1,452
Ultra 3-7	1.1	80	7.5	£1,020	£1,622	£1,032	£1,654
Ultra 5-5	1.1	140	5.6	£931	£1,533	£943	£1,565
Ultra 5-7	1.5	140	8	£1,044	£1,637	£1,047	£1,669
Ultra 7-6	2.2	170	7.4	£1,264	£1,727	£1,121	£1,858
STO200	1.5	160	6.2	£1,276	£1,753	£1,263	£1,785
Vertical Pumps				6	5	6	5
PUMP	Motor kW	Maximum		Single phase		Three phase	
		Litres /min	Pressure bar	Pressure set 300l	Variable Speed	Pressure set 300l	Variable Speed
VS2-11	1.1	58	10.2	£2,292	£2,279	£2,263	£2,311
VS2-15	1.5	58	14.2	£2,598	£2,438	£2,474	£2,470
VS4-8	1.5	133	7.5	£2,432	£2,506	£2,432	£2,538
VS4-12	2.2	133	11.5	£2,635	£2,718	£2,599	£2,849
VS8-06	2.2	200	6.5	Not recommended	£2,853	Not recommended	£2,984
VS8-08	3	200	8.5		£3,360		£3,319
VS8-10	4	200	11		£3,834		£3,793
VS8-15	5.5	200	15.5		n/a		£4,874
VS16-4	4	366	5.5		£3,576		£3,535
VS16-6	5.5	366	8.5		n/a		£4,406
VS16-8	7.5	366	11		n/a		£4,875

Kits include non-return valve

*Includes economy unit for standard Presscontrol unit add £30.00

**For 24l Horizontal set add £22.00

***Can be supplied with other sizes of vessel:

Vertical vessels

60 litre less £40.00

150 litre plus £140.00

300 litre plus £413.00

Note: we do not recommend pressure sets for these pumps but they can be supplied on request.

Dual Pump Booster Sets

Penstar manufactures a range of dual pump booster sets to provide security of supply and meet variable water demand, with 3 control options-

- Standard panel-** Conventional fixed speed on/off control with automatic pump sequencing & alarm functions
- Inverter drive-** Variable speed pump operation to provide a constant system pressure, with automatic pump sequencing & alarm functions
- Alarms-** All systems are supplied with a separate alarm beacon to give an indication that there is a fault.


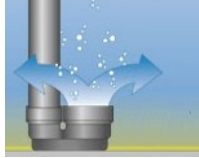


We can supply the standard & inverter drive systems with a pager unit to provide a text message in the event of an alarm condition.

All our booster sets are mounted on a base plate with suction & discharge manifolds, controls & 24 litre pressure vessel(s).

Where indicated *, 2 pressure vessels as used for the pressure sets to prevent the pumps switching on & off too frequently

PUMP	Motor kW	Maximum		Single phase		Three phase		Additional Pager
		l/min per pump	Pressure bar	Fixed Speed	Variable Speed	Fixed Speed	Variable Speed	
Horizontal pumps								
Ultra 3-5	0.75	80	5	£2,510	£3,375	£2,836	£3,543	£395.00
Ultra 3-6	0.9	80	6	£2,598	£3,555	£2,924	£3,844	£395.00
Ultra 3-7	1.1	80	7.5	£3,032	£3,959	£3,328	£4,248	£395.00
Ultra 5-5	1.1	140	5.6	£2,854	£3,781	£3,150	£4,070	£395.00
Ultra 5-7 *	1.5	140	8	£3,080	£3,989	£3,358	£4,278	£395.00
Ultra 7-6 *	2.2	170	7.4	£3,618	£4,167	£3,078	£4,414	£395.00
STO200 *	1.5	160	6.2	£3,399	£4,261	£3,699	£4,550	£395.00
Vertical pumps								
Ultra V5-10 *	2.2	140	11	£3,982	£4,615	£3,840	£4,862	£395.00
Ultra V5-11 *	3	140	12	£4,088	£5,678	£4,182	£5,314	£395.00
VS2-11 *	1.1	58	10.2	£4,293	£5,248	£4,561	£5,537	£395.00
VS2-15 *	1.5	58	13	£4,775	£5,553	£4,853	£5,842	£395.00
VS4-8 *	1.5	133	7.5	£4,698	£5,586	£5,024	£5,875	£395.00
VS4-12 *	2.2	133	11.5	£5,000	£6,003	£4,771	£6,250	£395.00
VS8-06 *	2.2	200	6.5	Not recommended	£6,302	Not recommended	£6,549	£395.00
VS8-08 *	3	200	8.5		£7,693		£7,329	£395.00
VS8-10 *	4	200	11		£8,641		£8,277	£395.00
VS8-15 *	5.5	200	15.5		n/a		£10,302	£395.00
VS16-4 *	4	366	5.5		£8,392		£8,028	£395.00
VS16-6 *	5.5	366	8.5		n/a		£9,646	£395.00
VS16-8 *	7.5	366	11		n/a		£10,555	£395.00

Our kits include:

	<p>Tank inlet filter (cleanable)</p> <p>Calmed inlet inside the tank</p> <p>Overflow siphon</p>	
	<p>Submersible stainless steel pump</p> <p>60litre pressure set with isolation valve</p> <p>Control panel with programmable module</p> <p>Mains water inlet on low level</p>	

Pump discharge in rigid ABS with connections for 32mm MDPE pipe
 Pressure set connections - 32mm MDPE inlet & 22mm copper outlet
 Together with a choice of polyethylene tanks for underground or above ground installation-

Please contact Penstar for a quotation for a concrete, grp or larger polyethylene tank.

	Tank			Price
	Capacity litres	Diameter mm	Height mm	
Kit only without tank				£1,930
Kit with Polyethylene Storage Tank Suitable for underground installation	1260	1000	1600	£2,610
	1580	1000	2000	£2,603
	2000	1000	2860	£12,135
	3000	1000	4000	£3,867
Kit with Polyethylene Storage Tank For above ground use.	2500	1400	1800	£2,455
	4000	1900	1650	£2,745
	5000	1900	2300	£2,845
	7000	2400	1820	£3,045
	8500	2600	2063	£3,125
	9500	2440	2500	£3,265
	12000	2600	2600	£3,445
	16000	2600	3350	£4,125
Optional filtration equipment:	Gauze filter kit for coarse filtration			£60
	High capacity LD filter kit			£165
	30l/min Steriliser kit with filter			£474
	50l/min Steriliser kit with filter			£611



WASHDOWN SYSTEMS



WASHDOWN PUMPS

Penstar offer a variety of pumps for washdown systems on farms or for industrial applications.

These range from a simple horizontal multistage unit with basic control to high flow vertical multi-pump systems with variable speed operation.



PACKAGE SETS

Penstar manufacture pre-assembled, self-contained washdown sets, to provide a pressurised water supply through a trigger gun for a variety of applications.

Many of the systems use inverter control to vary the operating speed of the pump to maintain a constant pressure when the demand varies.

Where required, a dual pump system can be supplied with duty/spare pump and automatic sequencing.

For a compact unit for use outdoors, the enclosed washdown sets are assembled within a GRP kiosk.

INSTALLATION

We offer a full installation service, including distribution pipework with several take-off points, including system commissioning.

This is backed up by our maintenance service.

Our range of standard washdown kits:

Penstar

Horizontal Multistage Pumps:

6



ULTRA Pentax pumps - stainless steel body & technopolymer impellers
CAB300 Pentax self-priming pump -cast iron & technopolymer impellers.
STO From the Penstar range, cast iron body, stainless steel casing & impellers

Pump	KW	Maximum litres/min	Maximum Pressure	PRICE		
				Pump Only	Single Kit	Dual Kit
ULTRA5-5	1.10	140	5.6 bar	£567	£872	£1,775
ULTRA5-7	1.50	140	8 bar	£680	£985	£2,001
ULTRA7-6	2.20	170	7.5 bar	£891	£1,196	£2,423
CAB300	2.20	120	6.3 bar	£818	£1,123	£2,277
STO200	1.50	160	6 bar	£757	£1,062	£2,155
STO300	2.20	35gpm	7 bar	£969	£1,274	£2,579

Horizontal multistage single pump kits include press-control with plug & lead, non-return valve, quick-release discharge couplings, 10m hose & power wash gun.

Dual Systems are assembled on a base plate & include connection pipework & non-return valves for 2 pumps, 24 litre pressure vessel & switches for connection to a distribution main or hose.

Prices are for single phase pumps – three phase P.O.A.

Vertical Multistage Pumps:

6



ULTRAV Pentax models with technopolymer impellers
VS Range Penstar industrial pumps with stainless steel wetted parts

Pump	KW	Maximum litres/min	Maximum Pressure	PRICE		
				Pump Only	Basic Kit	Inverter Kit
ULTRAV5L-8	1.85	140	9.1 bar	£850	£1,281	£1,940
ULTRAV7L-6	2.20	170	7.5 bar	£995	£1,426	£2,085
VS4-8	1.50	133	8bar	£1,592	£2,023	£2,680
VS4-12	2.20	133	12bar	£1,743	£2,316	£3,018
VS8-6	2.20	200	6.3bar	£1,904	£2,335	£2,994
VS8-8*	3.00	200	8.5bar	£2,196	n/a	£3,168
VS8-10*	4.00	200	10bar	£2,681	n/a	£3,479
VS16-6*	5.50	366	8bar	£2,979	n/a	£4,012
VS16-8*	7.50	366	11bar	£3,372	n/a	£4,757
VS20-10*	11.00	466	13.5bar	£4,767	n/a	£6,099

WE CAN ALSO SUPPLY GRUNDFOS & LOWARA MULTISTAGE PUMPS IF PREFERRED - POA

The standard kits include 24 litre pressure set with motor starter & suitably rated overload & non-return valve for connection to a distribution main or hose on site.

The inverter kits offer variable speed drives with pressure transducer in place of the motor starter.

* These pumps are only available in three phase

This is a selection of the single phase pumps that we offer.
 Please contact us for a quotation for a different specification.
 We also supply distribution pipework for a pressurised washdown main.

Drainage Pumps

Penstar

Penstar Submersible Pumps with float switch 7

Model	Pump Body	kW	Solids Handling	Max. Head m	Max Flow l/min	PRICE
D400	Plastic	0.4	30mm	5	125	£64.00
D550	Plastic	0.55	35mm	7	158	£72.00
D900	Plastic	0.9	35mm	8.5	233	£98.00
F1520	Cast Iron	1.1	50mm	12	500	£888.00



Zenit Pumps with Floatswitch 6

Model	Pump Body	kW	Solids Handling	Max. Head m	Max Flow l/min	PRICE
DR-Steel 25/2	Stainless Steel	0.25	12mm	8.5	120	£333.00
DR-Steel 37/2	Stainless Steel	0.37	12mm	13.6	150	£397.00
DR-Steel 55/2	Stainless Steel	0.55	12mm	12.4	300	£450.00
DR-Steel 75/2	Stainless Steel	0.75	12mm	16	330	£490.00
DG-Steel 37/2	Stainless Steel	0.37	40mm	8.7	180	£404.00
DG-Steel 55/2	Stainless Steel	0.55	40mm	8.1	330	£498.00
DG-Steel 75/2	Stainless Steel	0.75	40mm	10	360	£529.00
DG-Blue 50/2	Cast Iron	0.37	40mm	7.6	300	£374.00
DG-Blue 75/2	Cast Iron	0.55	40mm	10.1	360	£401.00
DG-Blue 100/2	Cast Iron	0.74	40mm	11.6	420	£489.00



Calpeda drainage pumps POA

Pentax Pumps with Floatswitch 6

Model	Pump Body	kW	Solids Handling	Max. Head m	Max Flow l/min	PRICE
DH100G	Stainless Steel	1	12mm	19.4	300	£506.00



Ebara Stainless Steel Pumps with Floatswitch 6

Model	Solids Handling	kW	Max. Head m	Max Flow l/min	PRICE
BEST-3	10mm	0.75	14	280	£981.00
BEST-4	10mm	1.1	17.5	330	£1,077.00



Lowara DIWA & DNM pumps POA

Penstar Package Pumping Stations offer an efficient and economic way of transferring domestic sewage to a main sewer or remote treatment plant.

For lower heads, we offer a vortex pumps and a 2" or 3" bore main is normally used.

The macerator pump is used with a 1 1/2" or 2" bore pumping main, normally black MDPE pipe underground.

We offer an optional single phase control panel which operates using two floats for a wider pumping range and more reliable switching. These panels incorporate a local high level alarm to warn of malfunction or blockage before the system overflows or backs up.

The package is supplied in kit form and can readily be assembled on site. We do offer an installation and commissioning service.

For larger or more complex applications, we can offer a dual pump package station. For private systems there is an option of remote monitoring by plc and modem and we also offer systems for adoption.



Penstar Effluent Pumping Stations - for sites where it is not possible to discharge septic tank effluent directly to a soakaway, we offer an effluent pumping station to transfer the sewage liquor to a remote soakaway.

Penstar Lifting Stations - compact pumping sets for a variety of sewage and waste water applications - waste water from a kitchen or shower, septic tank effluent, sewage from a single bathroom.

Our specialist engineers & trained technicians carry out trouble-shooting & maintenance service on existing plant or pumping stations.

Penstar maintenance contracts to provide the complete service.



SEWAGE TREATMENT

In addition to pumping stations, Penstar supplies treatment plant for dwellings or complexes which are not within easy reach of the main sewer.

Systems are designed to meet environment agency consent and the effluent can be discharged into a suitable watercourse, ditch or soakaway.

We also modify existing systems to meet current regulations.

Sewage Pumps

Penstar

See also – Penstar F1520 pump

KSB Ama Porter Vortex Pump with float switch						8
Model	kW	Solids Handling	Max. Head m	Max Flow l/min	PRICE	
501	0.75	45mm	11.5	390	£650.00	
502	1.1	43mm	13.5	420	£856.06	
503	1.1	41mm	16	480	£856.06	
601	0.75	60mm	8	500	£1,014.74	
602	1.1	58mm	10	600	£1,085.35	
603	1.1	56mm	12	660	£1,750.00	

This price includes the portable installation kit.

PIPEWORK for KSB Ama Porter pumping systems:

3" bore PVC, with sockets: £30.00 per 6m length



Penstar Macerator Pumps						7
Model	kW	Max. Head m	Max Flow l/min	PRICE		
				Pump	Control Box	
GRBL100	0.75	18	240	£932.00	n/a	
GRBL150	1.1	21	300	£1,117.00	n/a	
DTR200	1.5	23	300	£1,556.00	£129.00	
DTR300	2.2	26	300	£1,540.00	3ph	



ABS Piranha Macerator Pumps						8
Model	kW	Max. Head m	Max Flow l/min	PRICE		
				Pump	Connection*	
08	1	20	120	£872.00	n/a	
09	1.8	20	200	£987.00	n/a	
S12/2	1.2	22	135	£1,862.00	£222.00	
S17/2	1.7	30	150	£2,103.00	£222.00	

* This kit includes a base and connection for free standing installation



Grundfos Macerator Pumps						3
Model	kW	Max. Head m	Max Flow l/min	PRICE		
				Pump	Control Box	
SEG40.09	1	14	250	£2,761.00	£300.00	
SEG40.12	1.8	20	280	£2,761.00	£300.00	

The pump price includes the portable installation kit.

The listed sewage pumps are for free-standing installation.

We can offer pedestals and kits for fixed installations using guide rails.



Penstar Domestic Sewage Pumping Stations

Penstar



Penstar F Vortex pumps can be used on domestic sewage & as the solids clearance is 50mm a 2" discharge pipe can be used.

KSB Ama Porter Vortex pump has a larger clearance with a solids handling capability of up to 60mm, requiring a minimum of 2½" pumping main.

Penstar GRBlue & DTR Grinder pumps are an economic range of macerators, requires minimum pipe size 1½" or 2" for DTR.

We also offer systems using **Lowara**, **Grundfos** or **ABS** pumps: P.O.A.
Prices exclude V.A.T.



Pump	Tank		Pipe Size	Single £	Dual £
	litres	Type			
 F1520A Vortex 1.1kW	800	Polyethylene	2"	1841.00	3766.00
	1100	Polyethylene	2"	1909.00	3843.00
	1400	Polyethylene	2"	1911.00	3855.00
	1350*	Concrete	2"	-7459.00	-5535.00
 GRBlue Grinder 0.75kW	800	Polyethylene	2"	1652.00	3388.00
	1100	Polyethylene	2"	1720.00	3465.00
	1400	Polyethylene	2"	1722.00	3477.00
	1350*	Concrete	2"	-7648.00	-5913.00
 DTR200 Grinder 1.5kW	800	Polyethylene	2"	2635.00	5102.00
	1100	Polyethylene	2"	2703.00	5179.00
	1400	Polyethylene	2"	2705.00	5191.00
	1350*	Concrete	2"	-6665.00	-4199.00
 Ama Porter Vortex 1.1kW	800	Polyethylene	2½"	2308.35	n/a
	1100	Polyethylene	2½"	2376.35	4652.70
	1400	Polyethylene	2½"	2378.35	4664.70
	1350*	Concrete	2½"	-6991.65	-4725.30

Systems include pre-assembled pipework for free-standing installation.

Pumps can be easily fitted into the tank on site with union connections.

* Concrete tanks supplied with internal equipment as a kit.

High Level Alarm

Basic high level alarm panel with float switch: £128.00

Dual float control system with high level alarm: £469.00

Dual pump systems include a control panel with automatic pump sequencing & high level alarm.

Dual systems operate with float switches – additional for ultrasonic level control: £265.00

Pressure Vessels

Pressure sets include: Vessel
 Pressure switch
 Pressure gauge
 Manifold
 Connection hose (horizontal only)



Penstar

5

Size (litres)	Connection Bsp	Vertical 10 bar		Horizontal 10 bar		Vertical 16 bar
		Vessel	Set	Vessel	Set	
8	1"	£41.00	£107.34	-	-	-
24/25	1"	£73.00	£139.34	£76.00	£172.34	£165.00
60	1"	£142.00	£208.34	£184.00	£280.34	-
80	1"	£224.00	£290.34	£224.00	£320.34	£1,059.00
100	1"	£246.00	£312.34	£285.00	£381.34	£1,116.00
200	1¼"	£528.00	£594.34	-	-	-
300	1¼"	£637.00	£703.34	£1,303.00	£1,399.34	£2,089.00
450	1½"	£1,010.00	£1,076.34	-	-	£2,680.00

Pressure Switches

7

		Rating	No of poles	Max. Amps	PRICE
	PT5	5bar	3 x NC	16	£40.00
	PT12	12bar	3 x NC	16	£20.00
	FSG2/dry run	4.6bar	2 x NC	10	£50.00
	6XMP	6bar	3 x NC	16	£40.00
	12XMP	12bar	3 x NC	16	£40.00
	HLP506	6bar	1xNO	12	£35.00
	B12DN	16bar	1xNC	16	£75.00

Pressure Transducers


8


	Range	Output	PRICE
	0.25bar	4-20mA	£135.00
	0.5bar	4-20mA	£10,000.00
	6bar	4-20mA	£99.00
	10bar	4-20mA	£90.00
	16bar	4-20mA	£10,000.00
	25bar	4-20mA	£99.00

Pressure Gauges


7


	Range	Diameter	Case	PRICE
	PG6	6bar	Stainless Steel Glycerine - Filled	£19.00
	PG12	12bar		£19.00
	PG16	16bar		£23.00
	PG25	25bar		£23.00


	Float Switches				6
		Action	Cable	Max Amps	PRICE
	General Purpose	Double	2m	16	£27.00
	General Purpose	Double	10m	16	£37.00
	Suspended Float	Double	n/a	10	£59.00
	H/D (Sewage)	Single	10m	10	£55.00
	Conductivity Probes				
	Standard single	n/a	extra	n/a	£12.00
	HD double	n/a	10m	n/a	£35.00


	Aquatel Wireless Level Systems			3
	Monitor System	D110	Monitor kit	£299.00
		T110	Extra tank	£180.00
	Pump Control System	M107BT	Controller kit	£645.00
	Accessories	Tank sensor bracket		£14.00
		3.6m antenna extension kit		£19.00
Booster antenna		£129.00		

Flow Control

	Flow Switches				7
	Type	Size	Min Flow	Max Amps	PRICE
	bsp connection	1" - 10AR	0.6 l/min	10(4)	£39.00
	bsp connection	1" - PLC	0.6 l/min	n/a	£49.00
	Insertion type (adj)	1" to 8"	0.5 l/min*	16(6)	£69.00
			* Depends on pipe size		

	Flow Demand Controllers				7
		kW	Pressure	Max Amps	PRICE
	Econo-Presscontrol (1")	1.1	1.5bar	6	£53.00
	Presscontrol(1")	1.5	1.5bar	8	£74.00
	Mascontrol (1¼")	2.2	1.5bar	16	£112.00
Controlpress (1¼")	2.2	adj. 3-6.5bar	16	£125.00	

	Start/Breaker Boxes 6		
	With overload protection		
	Thermal Breaker box	Rating	PRICE
		1.6-2.5A	£40.00
		2.5-4A	£40.00
		4-6.3A	£40.00
		6-9A	£40.00
		9-13A	£44.00
	Electromagnetic Starter Box	12-17A	£44.00
		9A	£119.00
12A		£127.00	
	18A	£152.00	

	Inverter Drive Kits 5	
	1 phase input & 3 phase output for variable speed operation	
	* Excludes pressure transmitter.	
	Rating	PRICE*
	0.75kW	£522.00
1.5kW	£680.00	
2.2kW	£682.00	
4.0kW	£972.00	



Penstar Control Panels

Type	Use	PRICE
LV switch unit	With float switch or flow switch	£126.00
Cut-out unit	To fill tank automatically without cabling	£395.00
Dual level controls	For boreholes or sewage pumps	£131.00
Text Alert Unit	Dialler unit with SIM card to send SMS messages.	£425.00
Alarm panel	Warning of high/ low tank level or high/low system pressure	£91.00
Dual Booster Set	Basic electronic panel	£250.00
	Penstar flexible system with microprocessor*	£695.00
Dual Sewage Pump Control	Basic electronic panel	£250.00
	Penstar flexible system with microprocessor*	£510.00
	* Text alert can be added for additional	£325.00

Please contact us for control panels for other applications.



WATER TREATMENT & PURIFICATION SYSTEMS

- ▶ Ultraviolet Sterilisation
- ▶ Sediment Removal
- ▶ Ozone Treatment
- ▶ Metals Removal
- ▶ De-scalers
- ▶ Softeners
- ▶ Nitrate Removal
- ▶ Deionisers
- ▶ Chlorination
- ▶ Dosing
- ▶ Boiler Feed Water



EQUIPMENT SUPPLY

Our experienced technical support department can advise you on the most suitable equipment to provide a potable water supply or treat your water for a particular process.

We supply from our trade counter or we can arrange delivery as required.








COMPLETE SERVICE




Armed with your requirements we can engineer the most suitable system through from conceptual to detailed design.



We offer installation and commissioning by our own specialist technicians, together with troubleshooting and maintenance on existing plant.


Penstar comprehensive maintenance contracts to provide the complete service.


FILTER HOUSINGS		Plastic filter housings to fit industry standard cartridges. "Standard" size(also slimline or clear) are 63mm diameter, lengths 5", 10" or 20". "LD" (Large diameter) are 113mm diameter, lengths 10" or 20".					5
		Size	Ports	Price			
		CARTRIDGE HOUSINGS	5" Slimline	1/2"	Housing	Bracket	Spanner
			5" CI Slimline	1/2"	£25.00	£9.56	£12.15
			10" Slimline	1/2"	£17.50	£9.56	£12.15
			20" Slimline	1/2"	£55.55	£9.56	£12.15
			10" Standard	3/4"	£0.00	£9.56	£12.15
			10" Clear	3/4"	£28.00	£15.00	£8.00
			20" Standard	3/4"	£25.00	£15.00	£8.00
			10" Standard	1"	£56.00	£15.00	£8.00
			10" Clear	1"	£34.00	£15.00	£8.00
			20" Clear	1"	£38.00	£15.00	£8.00
			10" LD	1"	£60.00	£15.00	£8.00
			20" LD	1 1/2"	£96.00	£31.75	£18.00
					£137.84	£31.75	£18.00
			BAG HOUSINGS		10" PBH	1"	£414.82
		20" PBH	1 1/2"	£475.63	£31.75	£18.00	

SEDIMENT CARTRIDGES		Size	Micron Rating *	PRICE			5
				1+	10+	25+	
SPUN-BONDED CARTRIDGES							
	100% Polypropylene microfibre structure allowing high flowrates	5" Standard	5	£3.15	£2.70	£2.25	
		10" Standard	1, 5, 10	£3.15	£2.57	£2.25	
		20" Standard	1, 5, 10, 50	£6.29	£5.44	£4.59	
		10" LD	1, 5, 10, 20	£18.75	£17.58	£16.41	
		20" LD	1, 5, 10, 50	£37.50	£33.48	£30.80	
WOUND CARTRIDGES							
	100% Polypropylene medium wound around a central core	10" Standard	1, 5, 10, 30	£4.22	£3.79	£3.42	
		20" Standard	1, 5, 10, 30	£8.44	£7.60	£6.75	
		10" LD	1, 5, 10, 30	£28.57	£24.14	£19.32	
		20" LD	1, 5, 10, 30	£61.90	£55.71	£49.52	
PLEATED CARTRIDGES							
	Durable polyester fabric which can be washed & re-used	10" Standard	5, 30	£13.81	£11.66	£10.36	
		10" LD	5, 30	£28.57	£24.14	£19.32	
GAUZE CARTRIDGES							
	Washable mesh used for prefiltration	10" Standard	80	£12.00	£10.73	£9.47	
FILTER BAGS							
	Polypropylene bags for high flow applications. Nylon mesh is also available.	10"	5, 10	£8.32	£7.13	£5.94	
		20"	5, 10	£11.15	£8.82	£7.94	
* Other micron ratings available – P O A							

CHEMICAL CARTRIDGES		Size	PRICE		
			1+	10+	25+
 <p>Used for the removal of tastes, odours, chlorine & volatile organic compounds</p>	5" Standard	£0.00	£0.00	£0.00	
	10" Standard	£15.55	£14.00	£12.44	
	20" Standard	£23.84	£21.46	£19.07	
	10" LD	£34.00	£30.60	£27.20	
	20" LD	£68.01	£61.21	£54.41	
ANTI-SCALE CARTRIDGE		10" Standard	£20.00	£18.00	£16.00
 <p>Hard water treatment to prevent scaling</p>					
MRC CARTRIDGE		10" LD	£163.88	£147.49	£131.10
 <p>Used for the reduction of dissolved iron</p>	20" LD	£262.00	£235.80	£209.60	

POINT-OF USE FILTERS			PRICE	
			Kit	Cartridge
NITRATE AND DEIONISATION FILTER KITS			<i>Nitrate removal kit</i>	
 <p>With separate tap</p>	10" Standard	£74.50	£29.00	
	20" Standard	£122.50	£58.00	
	<i>Deionisation kit</i>			
	10" Standard	£74.50	£62.18	
	20" Standard	£122.50	£106.22	
CRISTAL-SOFT			Unit	Re-fill
 <p>In-line antiscaling unit for washing machines & dishwashers</p>		£8.95	£5.00	

ACID WATER TREATMENT UNITS		Size	Price
 <p>The in-line unit uses calcium & magnesium minerals to neutralise the water & reduce the corrosivity.</p> <p>Replacement medium also supplied.</p>	817	£199.00	
	835	£248.00	
	1023	£160.00	
	1044	£364.00	
	1054	£402.00	
	1354	£563.00	
	1465	£808.00	
	1665	£1,678.00	

DOSING PUMPS				
 <p>Etatron eOne MF dosing pumps, 4-20mA input, high dosing frequency (max. 300 strokes/min), water meter input, alerts for under and over load blocking, perfect for proportional dosing.</p>	Model	Mode	Flow	Pressure
	DPEMF0110	Automatic	1 l/hr	10 bar
				Price
				£677.00

CRYSTAL RIGHT FILTERS for Iron & Manganese Reduction

Ion-exchange using Crystal Right 100 for the reduction of iron and manganese in neutral or hard waters. Automatic regeneration using salt.

Crystal Right Evolve filters have a built-in chlorine generator to disinfect the bed. 3



Size	Volume Litres	Flowrate		PRICE	
		m ³ /hr	litres/min	Standard	Evolve
1044	28	1	16.67	£680.00	n/a
1054	42	1.5	25	£735.00	£958.00
1354	72	2	33.33	£1,089.00	£1,181.00
1465	99	2.5	41.67	£1,328.00	£1,532.00
1665	127	3	50	£1,615.00	n/a
1865	170	4	66.67	£2,029.00	n/a

PYROLOX FILTERS for Iron & Manganese Reduction

Catalytic filters using manganese dioxide mineral for oxidation and filtration of iron and manganese.

They are also effective for the removal of hydrogen sulphide.

An oil free compressor is included to augment the backwash process and also some bed re-oxygenation.

If the pH of the water is low an adjustment medium is incorporated into the bed.

Small quantities of potassium permanganate may also be used for greater bed re-oxygenation. 7



Size	Flowrate (standard)		Flowrate (pH adjusted)		PRICE
	m ³ /hr	litres/min	m ³ /hr	litres/min	
1054	0.9	15	0.75	12.5	£2,170.00
1354	1.8	30	1.5	25	£2,551.00
1465	2.3	38.33	1.92	32	£2,714.00
1665	3.6	60	3.0	50	£3,111.00
1865	4.5	75	3.75	62.5	£3,650.00

WATER SOFTENERS

A range of domestic and commercial softeners with timed or metered regeneration using salt. 3

Domestic Cabinet Softeners



Size	Litres	Flowrate		PRICE	
		m ³ /hr	litres/min	Timed	Metered
817	10	0.4	6.67	£746.00	£810.00
735	15	0.6	10	£770.00	£851.00
835	25	1	16.67	£809.00	n/a
1035	35	1.4	23.33	£876.00	£946.00

Commercial Softeners



835	20	0.8	13.33	n/a	£773.00
1035	30	1.2	20	n/a	£689.00
1044	40	1.6	26.67	n/a	£951.00
1054	50	2	33.33	n/a	£979.00
1354	75	3	50	n/a	£1,145.00

These softeners use Autotrol controllers. Siata controllers available P.O.A.

Larger Units & Duplex Filters - POA

DOMESTIC ULTRAVIOLET STERILISERS – Standard Range 5



Our domestic range of ultraviolet sterilisers provide a robust, reliable, trusted high performance unit at an economical price.

Model	Chamber	Watts	Flowrate l/min*	Recommended Prefilter	Price
UVECO1	Stainless Steel	15	11 (8)	5" Slimline	£351.00
UVECO2	Stainless Steel	30	28 (19)	10" Standard	£419.00
UVECO3	Stainless Steel	55	47 (36)	20" Standard	£446.00

SAPHIR RANGE OF ULTRAVIOLET STERILISERS 5



The SAPHIR range of ultraviolet sterilisers provide a robust, reliable, efficient unit using stainless steel disinfection chambers & employing the latest UV lamp technology.

Model	Chamber	Watts	Flowrate l/min*	Recommended Prefilter	Price
SAPHIR 1	Stainless Steel	15	17.5(12)	10" Slimline	£446.00
SAPHIR 2	Stainless Steel	25	30(20)	10" Standard	£491.00
SAPHIR 3	Stainless Steel	45	53.3(35)	10" LD	£522.00
SAPHIR 4	Stainless Steel	36	60.8(42)	10" LD	£666.00
SAPHIR 7	Stainless Steel	65	116.3(80)	20" LD	£1,049.00
SAPHIR 10	Stainless Steel	65	160(110)	20" Bag	£1,526.00

PRO model – POA Xylem Aquada models – POA

* The listed flow is for clean water. The normal recommended flowrate for domestic water is in brackets.

REPLACEMENT LAMPS



Standard	15W	£21.50	SAPHIR 1	15W	£25.00
	30W	£21.50	SAPHIR 2	25W	£25.00
	55W	£25.00	SAPHIR 3	45W	£60.00
			SAPHIR 4	36W	£35.00
			SAPHIR 7 and 10	65W	£64.00




Irrigation Systems

Penstar

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- ▶ Penstar has expertise in design of efficient and cost-effective irrigation schemes.
- ▶ We supply a range of equipment suitable for a wide variety of irrigation applications.
- ▶ Our site technicians carry out an installation service guaranteed for 12 months.
- ▶ Our experienced engineers will commission computer control equipment.
- ▶ We offer a reliable maintenance service backed by a large range of spares.

Standard Sprinklers						Part Circle Sprinklers					
											
Rotoframe		Browning		Naan 501		Microsprinkler		Plastic		Metal	
1/2"	£11.88	1/2"	£2.05	1/2"	£6.00		£2.21	1/2"	£16.12	1/2"	£20.35
3/4"	£12.27							3/4"	£20.90	3/4"	£39.60

Pop-up Sprinklers						Sprinkler Bases					
											
Whisper		Full/Part Circle		Popstar Plus		Metal Sled		Plastic Sled		Cobra	
1/2"	£0.00	3/4"	#N/A	3/4"	£23.71	1/2"	£45.76	1/2"	£7.50	3/4"	£30.03
		1"	£41.70			3/4"	£40.54				
Toro or Hunter Pop Up Sprinklers P.O.A.						1"	£46.04				
Travelling Irrigators											
Rain Train economy							£121.00				
Leader 20T-Heavy duty automatic							£795.00				

Please contact us for information on golf course & sports field systems












Description		20mm	25mm	32mm	40mm	50mm	63mm	90mm
Coupling	PAJ 	£2.75	£3.75	£4.75	£7.75	£10.60	£15.60	£30.60
Elbow	PAE 	£2.80	£3.50	£5.50	£9.50	£12.50	£16.50	£59.50
Tee	PAT 	£3.75	£5.50	£7.50	£12.50	£14.50	£25.00	£58.50
Tee – Female Branch	PATBF 	£3.50	£5.50	£7.00	£10.00	£15.00	£23.00	£45.00
Tee – Male Branch	PATBM 	£3.50	£5.00	£6.00	£10.00	£13.00	£19.00	£45.00
Male Adapter	PAM 	£1.75	£2.25	£3.50	£6.00	£8.50	£11.50	£22.62
Male Elbow	PAME 	£2.50	£2.75	£3.50	£6.00	£8.00	£10.00	£39.00
Female Adapter	PAF 	£2.50	£2.75	£3.50	£6.50	£9.00	£12.50	£23.50
Female Elbow	PAFE 	£2.25	£3.25	£5.00	£8.80	£11.00	£14.50	£39.00
End Cap	PAEC 	£3.00	£3.50	£4.50	£7.00	£9.50	£15.50	£51.50
Bag Quantity		20	10	10	5	5	5	5

Special prices available for full bags.








Threaded Plastic Fittings

Description		½"	¾"	1"	1¼"	1½"	2"	3"
Reducing Bush *	PLBR 	£0.85	£0.28	£0.39	£0.60	£0.75	£1.40	£5.05
Nipple	PLN 	£0.14	£0.17	£0.36	£0.51	£0.61	£0.88	£2.12
Reducing Nipple *	PLNR 	£1.95	£27.00	£0.39	£0.54	£0.58	£0.88	-
Socket	PLS 	£0.31	£0.33	£0.45	£2.44	£1.71	£7.47	£8.22
Elbow	PLET 	£0.64	£0.77	£0.96	£1.66	£2.67	£3.55	£14.44
M/F Elbow	PLETMF 	£0.49	£0.61	£0.79	£3.87	-	-	-
Tee	PLTT 	£0.84	£1.03	£1.18	£2.04	£3.18	£4.75	£20.30

* The larger size is listed

Size	Strainers		Non-return Valves					Pressure Valves	
	St. Steel	Brass Y	Brass	St. Steel	Swing check	Sewage	Flanged	Reducing	Relief
									
1/4"	-	-	-	p.o.a.	-	-	-	-	-
3/8"	-	£8.67	£7.10	p.o.a.	-	-	-	-	£19.00
1/2"	£1.05	£8.67	£7.00	p.o.a.	-	-	-	£47.00	£36.00
3/4"	£2.00	£14.38	£10.00	p.o.a.	£8.30	-	-	£52.00	£51.00
1"	£2.00	£28.17	£13.00	£33.00	£12.50	£65.00	-	£76.00	£73.00
1 1/4"	£1.88	£50.32	£20.00	£40.00	£19.60	£71.00	-	-	£100.00
1 1/2"	£4.00	£59.98	£28.00	£52.00	£31.00	£81.00	-	£174.00	£127.00
2"	£5.00	£159.59	£38.00	p.o.a.	£42.00	£102.00	-	£267.00	-
2 1/2"	£5.63	£122.40	£71.00	p.o.a.	£66.00	£140.00	-	-	-
3"	£6.93	£179.30	£99.00	p.o.a.	£125.00	£125.00	£160.00	-	-
4"	£9.25	£376.65	£173.00	p.o.a.	£200.00	p.o.a.	£185.00	-	-

LARGER VALVES – P.O.A.

Size	Ball-valves				Gate Valves		Butterfly Valves
	Brass	St. Steel	PVC	PVC Union	Brass	Flanged	Cast-disc
							
1/4"	£4.80	£10.00	-	-	-	-	-
3/8"	£4.80	£11.60	-	-	£5.30	-	-
1/2"	£5.10	£14.30	£4.70	£7.60	£6.50	-	-
3/4"	£16.00	£24.00	£6.18	£8.80	£8.60	-	-
1"	£15.00	£34.00	£8.75	£9.75	£22.70	-	-
1 1/4"	£23.00	£49.00	£12.00	£14.50	£15.65	-	-
1 1/2"	£36.00	£70.00	£17.46	£15.60	£21.25	-	-
2"	£52.00	£98.00	£24.00	£26.50	£29.55	-	£57.00
2 1/2"	£98.00	p.o.a.	£46.96	£117.00	£47.70	-	£63.00
3"	£90.00	p.o.a.	-	£149.00	£65.10	£209.00	£76.00
4"	£68.00	p.o.a.	£89.00	£171.00	£155.00	£308.00	-

Penstar Services

- FREE ADVICE:** No charge is normally made for our design engineers to carry out an initial site survey when they are visiting your area and advise you on the most suitable and efficient system for your particular application.
- DESIGN:** Our highly trained engineers, using the latest computer aids, will provide a quick and accurate design, minimising cost and maximising reliability.
- CONSULTANCY:** Our consultancy service is available for more complex studies or where a detailed specification is required.
- INSTALLATION:** We offer an installation package for our own systems, turnkey projects and installation of other equipment where required.
- COMMISSIONING:** We undertake commissioning of systems designed and supplied by others in addition to our own projects.
- WARRANTY:** All our systems are guaranteed to operate as specified, subject to correct information being supplied by the client. Our installations are covered by a **full 12 month on-site warranty**.
- MAINTENANCE:** Our experienced technicians carry out full back-up maintenance using our large stock of spares. This includes emergency call-out service during weekends and holiday periods.
- We offer maintenance contracts covering routine service in addition to breakdown.

We are situated 4 miles south of Cardigan on the A478.



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