



SELWOOD

The Definitive

PUMP

Hire & Sales Catalogue

*Super
Silent*

SELTORQUE
S300

SELWOOD



08450 733835

"Proud To Deliver"



SELWOOD

PLANT HIRE

SALES & SERVICE

Mini and micro excavators, mixers, disc cutters, dumpers, rollers, compressors, telehandlers, access platforms, survey and safety equipment... all the plant you need is available at Selwood.

With the right advice, flexible solutions and a large stock - Selwood is

“Proud To Deliver”

Branches Nationwide

08450 733835

www.selwood.co.uk



Specialist PUMP HIRE

“THE UK’S NO.1 PUMP HIRER”

Selwood has designed and manufactured mobile site pumps for over fifty years and is the only UK company that manufactures, hires and sells its own pumps.

The Selwood pump success story is one of continuous growth, innovation and enterprise. Since the first Selwood pumps were produced in 1955, the company has seen consistent expansion into new market areas both in the UK and overseas. Over the years it has developed a specialist pump hire division

to subsequently become the No.1 pump hirer in the UK.

The Selwood pump fleet encompasses some 4,000 units that span from 2” to 12” pumps, surface, electro-submersible and hydro-submersible, capable of moving a variety of substances including bentonite, water, sewage and sludge. The units are suitable for a wide range of industrial and construction applications and the company can provide advice on any pumping requirement.

All Selwood hire agreements include a 7 day a week, 24 hour call out facility which gives customers immediate access to a trained Service Engineer.



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COMPLETE PUMP PACKAGE

Supplying an ever increasing range of services to its many customers, who range from the smallest builder to the largest petrochemical installations, Selwood takes pride in the quality of its products and services and aims to provide a totally professional approach to the satisfaction of its clients requirements.



METHOD STATEMENTS FOR ANY APPLICATION

Selwood can prepare a methodology statement in order for it to be submitted to the necessary authority. It ensures compliance with ISO 9001 and also ensures that all parties are aware of how it is proposed to install the pumping system.

RISK ASSESSMENT

As with the method statement, it is also necessary to provide a risk assessment in order to comply with ISO 9001 regulations. It also ensures that all parties are made fully aware of what risks there are in order to carry out the application.

PUMPING EQUIPMENT FOR HAZARDOUS AREAS

Equipment can be supplied that is intrinsically safe. Diesel pumps are fitted with all the safety features required. Air driven and hydraulically driven pumps can also be supplied so that we are fully compliant with the Zoned requirements. Explosion proof pumps are also available.

COMPLETE PUMP PACKAGE



SERVICE & REPAIR OF ANY PUMP

This can be carried out at the customer's premises or Selwood will collect the pump from site. All Selwood fitters are trained to NVQ level 2 or 3 on pump maintenance and repair

PIPELINE TEST EQUIPMENT

This includes test pumps complete with gauges for pressures from 100psi - 3500psi. and Vetter Inflatable Stoppers for sealing flows into manholes etc.

IRRIGATION EQUIPMENT

Pumps can be supplied to run sprinkler systems for dust suppression or irrigation with larger pumps operating hose reels. Equipment can also be supplied to feed slurry to land systems and leachate dispersal.

Pumps when you need them, where you need them, call 08450 733835.

FLEXIBLE SOLUTIONS



To ensure you are provided with the equipment required to meet your personal requirements, Selwood can supply plant and pumps on flexible terms:-

OUTRIGHT PURCHASE

Selwood manufacture and supply market leading equipment to customers that believe in the value of asset ownership and have the infrastructure in place to manage and control their investment.

CASUAL HIRE

Selwood provide market leading equipment to meet the shorter term demand that match the customers resource requirements.

TERM HIRE

Selwood can also provide you with the effective benefits of ownership, but pass the management and residual value risk to Selwood through Term Hire Contracts. Selwood supply new equipment for committed hire periods in excess of one year on a fixed term basis.

***Contact your local
Selwood branch
for prices or phone
08450 733835.***

SAFETY INFORMATION



SAFETY SYMBOLS



SAFETY GLOVES

To ensure protection to your hands, for all activities and processes.



PROTECTIVE FOOTWEAR

Recommended when working with all pumps.



SAFETY HELMET

Provides protection from overhead, unseen, or moving objects.



SAFETY GOGGLES AND EYE PROTECTION

To meet or exceed BS 2092.



EAR PROTECTION EARPLUGS AND EAR DEFENDERS

Used with all high noise equipment or processes.



HEAVY DUTY CLOTHING

Recommended when working with all pumps.

Any item of equipment can be dangerous if it is not used correctly. Our staff will be glad to demonstrate the proper and safe use of equipment on request and customers are advised to take advantage of this service.

SAFETY DEVICES

The hirer must not disable or adjust any safety or protective device fitted to the equipment and must not increase any governed speed or working pressures.

WARNING NOTICES

The hirer must not remove or obstruct any warning notice on the equipment.

RISK ASSESSMENT

Under health and safety legislation there is a general duty on employers to take reasonably practicable steps to ensure the health and safety of their employees and others, such as members of the public. Employers also have a general duty to inform their employees of the risks to their health and safety associated with the work they do and the equipment they use. Selwood believes that when equipment is supplied there is no significant risk until it becomes operational. Once put in to use the degree of risk will depend upon the competency of the person and the circumstances in which the equipment is used. These matters are under the control of the hirer and as such should be taken into account when performing a risk assessment.



SAFETY INFORMATION

SAFETY INFORMATION SHEETS

These are issued for the different types of equipment that Selwood supply and it is important that these instructions are read before using the machine. At Selwood, we value all our customers and therefore provide this information and assistance to ensure the safety of all operators and to outline the effective maintenance and reliability checks necessary to ensure trouble free operation.

It is the general duty of the hirer, under current health and safety legislation, to provide adequate training and instruction to all employees and the information that Selwood supplies is intended to supplement that requirement. Selwood can also offer a range of safety equipment.

In the event that a fault or breakdown should occur during the hire which may affect safety then the local Selwood Branch must be notified so that the equipment can be repaired or exchanged. Selwood cannot accept any responsibility if the hirer continues to use the equipment before repair. Selwood undertake to deal with such defects as a matter of urgency.

If at any time you require further information regarding any equipment please do not hesitate to contact your nearest Selwood Branch.

NOISE

Selwood produces the quietest range of pumps on the market and makes every effort to offer the safest equipment produced by other manufacturers in our hire fleet. All equipment is marked with the Sound Power Level and the manufacturer's guidance levels are noted on hire contracts. We can also supply our own equipment list with Sound Power (By Output) and equivalent Sound Pressure (Bystander/Operators Ear) on request.

SAFETY INFORMATION



INSPECTION & TESTING

In order to comply with manufacturer's recommended servicing frequencies and legislation regarding the testing of equipment, we would ask for the client's co-operation to assist in the access to equipment to undertake this work. In some cases an exchange may be required which must be mutually agreed beforehand. The Selwood computer servicing system produces a 10 day warning prior to when the work is required and this will be notified to the customer so that appropriate arrangements can be made.

METHOD STATEMENTS

This should reflect the risk assessed in any operation and the controlled manner in which it should be undertaken. These can be provided when requested.

SAFE WORKING POSITION

Before operating ensure unit is positioned safely and securely.

EXHAUST GASES

Do not operate the machine in confined spaces without good ventilation. Breathing exhaust gases could harm or possibly kill you.

SPARKS

Explosions and fire can be caused by sparks from the exhaust or the electrical system. Do not use the machine in a closed area where there is flammable material, vapour or dust.

HOT SURFACES

Under normal working conditions the engine components, particularly the exhaust, will get hot – Do not touch. The hydraulic oil, pump, valve and tank can also reach temperatures high enough to burn – Do not touch.



SAFETY INFORMATION

OIL

Oil is toxic. If you swallow any oil do not induce vomiting, seek medical advice. Used engine oil contains harmful contaminants which can cause skin cancer. Do not handle used engine oil more than necessary. Always use barrier cream or wear gloves to prevent skin contact. Wash skin contaminated with oil thoroughly in warm soapy water. Do not use petrol, diesel fuel or paraffin to clean your skin.

HYDRAULIC FLUID

Fine jets of hydraulic fluid at high pressure can penetrate the skin. Do not use your fingers to check for hydraulic fluid leaks. Always wear eye protection during examination of the machine whilst running. Do not put your face close to suspected leaks. Hold a piece of cardboard close to suspected leaks and then inspect this for fluid. If hydraulic fluid penetrates the skin, get medical help immediately.

'HS' POWER PACK LABELS

The instructions for safe operation of the unit are written on the label which is fixed to the control panel of the powerpack.

DAMAGED HOSES & CABLES

Damaged hoses and cables can cause fatal accidents. Inspect these regularly for:-

- Damaged end fittings (loose glands)
- Chafed outer covers (exposed wire armour)
- Ballooned outer covers
- Kinked or crushed hoses
- Embedded armouring in outer covers

SAFETY INFORMATION



SUBMERSIBLE PUMP DATA

All submersible pumps will have the manufacturers data plate fitted. This will show:-

Phase Type	1 or 3 phase
Voltage Type	110v, 240v or 415v
Power	kW or HP
Duty	Max head/flow

LIFTING

Lift only by the handle using suitably rated and certified equipment.

CONFINED SPACES

Explosion proof pumps are available on request. Before any pump is made available for hire, all tolerances, flame paths are checked using fully calibrated gauges. All staff entering confined spaces should be fully trained and have the current safety equipment.

ELECTRICAL CONNECTION

All equipment has been tested and inspected in accordance with the I.E.E. wiring regulations BS7671 16th edition 2001. Any electrical equipment should only be mains connected by an electrician qualified to the above standard.

ELECTRICAL CONTROL EQUIPMENT

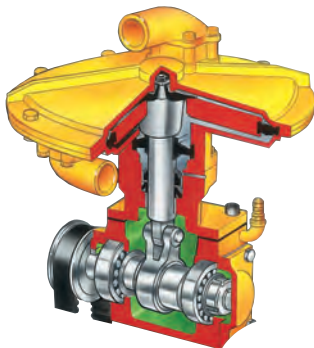
Any electrical starters should only be operated by competent personnel. Earth leakage protective devices and motor overloads should only be adjusted by a competent person.

PUMP TESTING

All submersible pumps will be checked for earth conductivity and resistance on a 90 day cycle. This may result in our requesting access to the equipment whilst it is on hire. This is a requirement of the Health & Safety Executive.

The unique original Selwood self priming system utilises a water tolerant diaphragm air pump. An environmentally friendly design that has none of the problems of oil vapour emissions and oil emulsification associated with other priming systems.

The Selwood pumps within the 'D', 'S' and 'H' ranges are designed to incorporate the Selprime system.



FULLY BONDED

In response to environmental concerns, all **Selwood Super Silent** units are fully bonded, ensuring that any fuel or oil leakage is retained within the unit and does not contaminate the surroundings.

Drain plugs within the units chassis can be used to remove the fluids.



'PD' RANGE



The **Selwood PD50 Simplite** is a general purpose, lightweight, reciprocating diaphragm, self priming pump, which has gained an international reputation for efficiency and dependability. Versatile in application, the pump will handle site water, slurries, sand and similar abrasives. It has a detachable bottom bowl for the easy removal of larger debris.

The **Selwood PD75 Spate** handles dirty water, slurries, light and heavy oils, petroleum industry products, including some of the more viscous liquids, at a high, non turbulent flow rate. The unique design makes it the perfect pump for the control of oil pollution. It is world renowned for its suitability on all oil recovery applications and works in conjunction with a wide variety of recovery systems and skimmers. Simplicity of design and construction provides for total ease of maintenance. Pump supplied with integrated stonecatcher.



PD50 Simplite



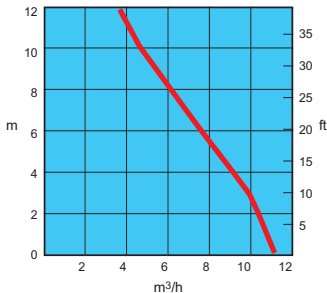
PD75 Spate

Download application reports from www.selwoodpumps.co.uk

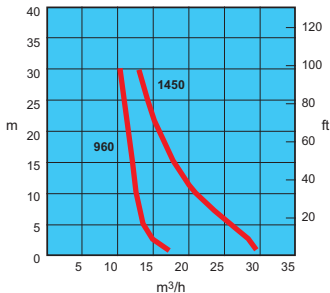


'PD' RANGE

PD50 Simplite



PD75 Spate



	PD50 Simplite	PD75 Spate
Capacity	11 m ³ /h	30 m ³ /h
Total Head	12 m	30.5 m*
Self-Priming Lift	6.7 m	8.8 m
Suction Lift	8.8 m	9.1 m
Operating Speed	90 strokes/min	1450 strokes/min
Solids Size	13 mm	6 mm
Air Handling	-	3.77 l/s
Port Size	50 mm Inlet, 75 mm Outlet	75 mm
Weight (lowest)	67 kg	88 kg
Engine Types	Honda Petrol Engine Yanmar Diesel	Petrol, Diesel, Electric & Air Prime Movers Electric Start Available

* 40.0m total head, intermittent duties only

'D' RANGE



These robust high performance pumps with indefinite dry running ability and the unique **Selprime** automatic air pump priming system, range from 75mm to 200mm. They are particularly suitable for water companies, pump hirers and high flow applications.

The **D80** and **D100** pumps are compact and cost effective 75mm and 100mm pumps that are extremely versatile, performing very effectively in a wide variety of applications.

Low operating costs are achieved through overall design efficiency together with a series of innovative features, which produce an impressive maximum flow rate of 600m³/hr, a maximum head of 40.5m and the handling of solids of up to 55mm.

D75 - Alternative Port size:- 75mm bauer or 2.5" BSP thread.

D200 - can be fitted with 250mm (10") bauer.

D150R - A fully silenced "Rapid Response" road tow model.

Super Silent options available on most models.

Also see pages 69/70 for fuel cubes and the Selwood refuel facility.

Download application reports from www.selwoodpumps.co.uk



D150



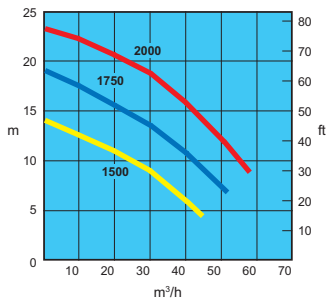
D75



'D' RANGE

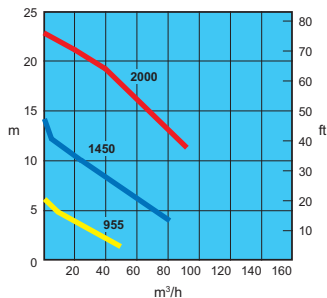
D75

SELPRIME



D80

SELPRIME



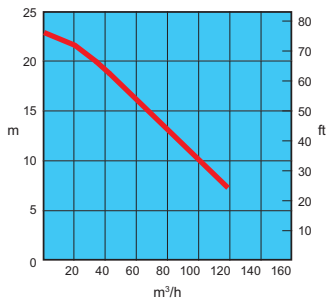
	D75	D80
Capacity	60m³/hr	90m³/hr
Total Head	23.5 m	23 m
Self-Priming Lift	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m
Operating Speed	2000 rpm	2000 rpm
Solids Size	29 mm	29 mm
Air Handling	4.25 l/s	4.25 l/s
Port Size	75 mm	80 mm
Weight (lowest)	268 kg	490 kg
Engine Types	Hatz ID41Z Diesel 2.2 kW Electric 3.0 kW Electric	Hatz ID81C Yanmar 2TNE68, 7.5 kW Electric

'D' RANGE



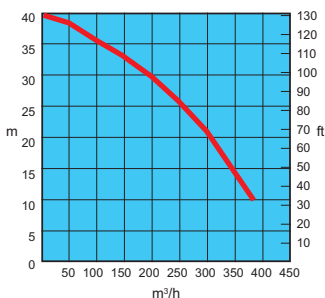
D100

SELPRIME



D150

SELPRIME

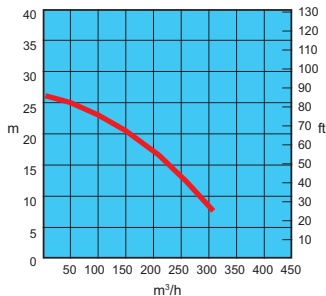


	D100	D150
Capacity	120m³/hr	380m³/hr
Total Head	23 m	40.5 m
Self-Priming Lift	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m
Operating Speed	2000 rpm	2000 rpm
Solids Size	29 mm	45 mm
Air Handling	4.25 l/s	24 l/s
Port Size	100 mm	150 mm
Weight (lowest)	461 kg	965 kg
Engine Types	Yanmar 2TNE68	Deutz D2011L04I Hatz 3L41C Lister TX3 Isuzu 4JG1 30 kW Electric/Gearbox

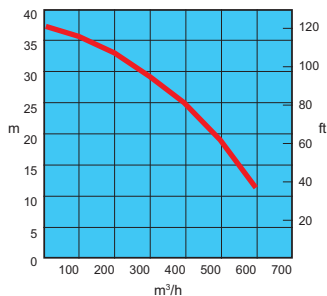


'D' RANGE

D150R

SELPRIME

D200

SELPRIME

	D150R	D200
Capacity	315m ³ /hr	600m ³ /hr
Total Head	27 m	37.5 m
Self-Priming Lift	8.8 m	8.8 m
Suction Lift	9.1m	9.1 m
Operating Speed	1750 rpm	1500 rpm
Solids Size	45 mm	55 mm
Air Handling	24 l/s	24 l/s
Port Size	150 mm	200 mm
Weight (lowest)	1191 kg	1950 kg
Engine Types	Isuzu 3CD1	Deutz D914L06 Isuzu 4BG1T

'D' RANGE



The **Selwood D150WP** has been specifically designed for all wellpoint applications and produces maximum drawdown at an operating speed of just 1500rpm. Super Silent option available.

Selwood D100 Twin Prime is suitable for Stockpile Dewatering (right).



D100 Twin Prime



D150WP

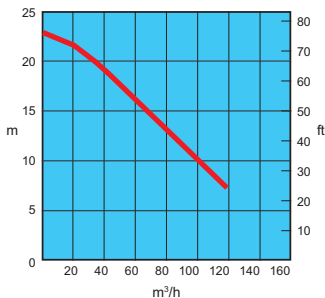
Also see pages 69/70 for fuel cubes and the Selwood refuel facility.



'D' RANGE

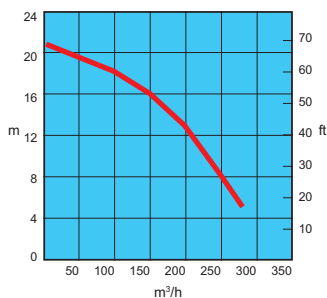
D100 Twin

SELPRIME



D150WP

SELPRIME



	D100 Twin Prime	D150WP
Capacity	120 m³/h	275 m³/h
Total Head	23m	21 m
Self-Priming Lift	8.8	8.8 m
Suction Lift	9.1 m	9.1 m
Operating Speed	2000 rpm	1500 rpm
Solids Size	29 mm	45 mm
Air Handling	42.5 l/s	48 l/s
Port Size	100 mm	150 mm
Weight (lowest)	440 kg	1035 kg
Engine Types	7.5 kW Electric	Deutz D2011L04I Isuzu 4LE1

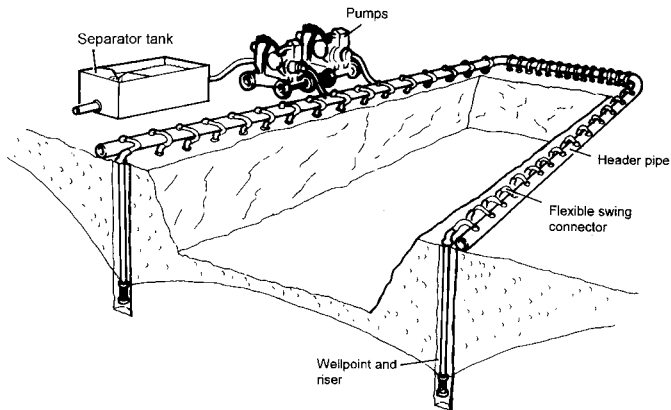


WELLPOINT

Selwood supply and arrange installation for all types of dewatering equipment.

A wellpoint dewatering system is the most versatile form of dewatering, capable of dealing with very low flows from silty sands to large flows from coarse sands and gravels.

The equipment consists of high impact plastic header pipes connected via a push-fit swing connector with control valve to the wellpoint. The disposable plastic wellpoints are installed using a steel jetting tube and a H80 jetting pump.





DEWATERING



'S' RANGE



Auto priming, vortex flow, solids handling centrifugal pumps.

Ranging from 100mm to 300mm with solids handling capabilities of up to 100mm and indefinite dry running ability, the Selwood Seltorque vortex pumps form the foundation upon which the company's international reputation has been built.

The environmentally friendly **Seltorque** range has the unique **Selprime** automatic air pump priming system together with an oil immersed mechanical seal enabling them to operate in the most arduous of circumstances encountered in the construction, mining and municipal industries. These pumps offer completely automatic priming from depths of 9.1m (30ft) and unequalled performance in effluent disposal and slurry handling.

Super Silent options available.



S150



S200

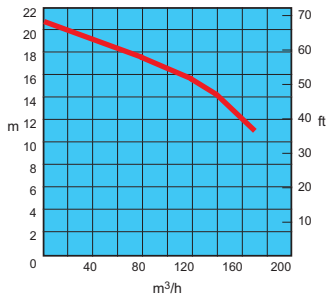
***Also see pages 69/70 for fuel cubes and the Selwood refuel facility.
Download application reports from www.selwoodpumps.co.uk.***



'S' RANGE

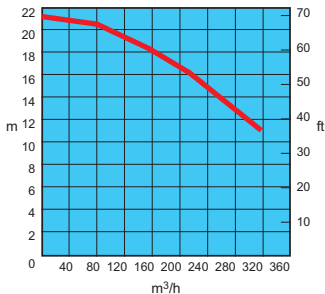
S100

SELPRIME



S150

SELPRIME



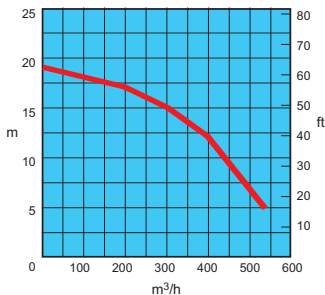
	S100	S150
Capacity	160 m³/h	320 m³/h
Total Head	21.3 m	21.3 m
Self-Priming Lift	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m
Operating Speed	1600 rpm	1600 rpm
Solids Size	75 mm	100 mm
Air Handling (Twin Prime)	24 l/s	24 l/s (48 l/s)
Port Size	100 mm	150 mm
Weight (lowest)	880 kg	995 kg
Engine Types	Deutz D2011L03i Hatz 3L41C Isuzu 4LE1 18.5 kW Electric	Hatz 4L41C Deutz D2011L04i Isuzu 4JG1 30 kW Electric

'S' RANGE



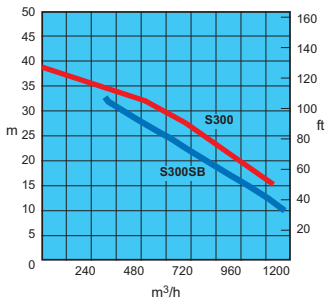
S200

SELPRIME



S300

SELPRIME



	S200	S300
Capacity	540 m³/h	1100 m³/h
Total Head	18.5 m	39 m
Self-Priming Lift	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m
Operating Speed	1450 rpm	1500 rpm
Solids Size	100mm	100 mm
Air Handling	24 l/s	24 l/s
Port Size	200 mm	300 mm
Weight	2340 kg	4650 kg
Engine Types	Isuzu 4BG1T	Isuzu 6BG1T



'S' RANGE



S300 Super Silent + Fuel Cube*

** Some large Selwood pumps require a fuel cube to operate as they have only a small internal priming fuel tank. Contact your Selwood branch for details.*

'C' RANGE



The Selwood C150 chopper pump is the ideal solution for pumping solids, sludge and rags.

Building upon Selwood's market leading reputation, the Selwood C150 chopper pump has been developed with our key partners in the process, industrial and water sectors. All have a common requirement to pump and condition liquids that contain a high proportion of solids, organic matter or rags.

The Selwood C150 chopper pump, with its hardened impeller and cutter (60 rockwell) plus a cutting action giving 3000 cuts per minute, is more than capable of meeting these arduous applications.

The C150 automatic self-priming diesel has the choice of either a skid mount or mobile site chassis for on-site flexibility. It also comes with Selprime as standard.



C150 Electric



**C150 Diesel
Selprime**

***Also see pages 69/70 for fuel cubes and the Selwood refuel facility.
Download application reports from www.selwoodpumps.co.uk.***



'C' RANGE

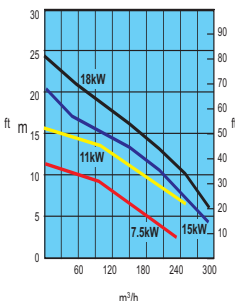
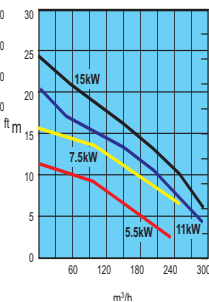
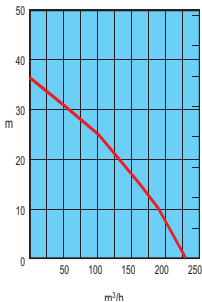
C150

SELPRIME

C150 Electric

C150

SELPRIME



	C150 Diesel Selprime	C150 Electric	C150 Electric Selprime
Capacity	225 m³/h	300 m³/h	300 m³/h
Total Head	37 m	24 m	24 m
Solids Size	40 mm	40 mm	40 mm
Suction Lift	9.1 m	9.1 m	9.1 m
Operating Speed	1800 rpm	1450 rpm	1450 rpm
Power Required	20 kW	5.5 - 15 kW	7.5 - 18.5 kW
Air Handling	24 l/s	-	24 l/s
Port Size In/Out	150 / 100 mm	150 / 100 mm	150 / 100 mm
Weight (lowest)	760 kg	350 kg	400 kg
Engine Types	Deutz DZ011L03i	Electric	Electric

'H' RANGE



These specialist pumps incorporate the features of all Selwood's other prime assisted pumps and meet the demands for high head dewatering applications. With proven design, their simplicity offers easy operation and unparalleled reliability coupled with inherent safety.

The environmentally friendly high head range has the unique **Selprime** automatic air pump priming.

The 'H' range features abrasive resistant pump ends ideal for those more arduous applications.

H80 – High head pumpsets for jetting, etc. Auto priming, semi shrouded centrifugal impeller.

H100, H125, H150, H200 & H150TS – High head pumpsets ideal for quarries, pressurised systems and slurry handling. Pump end manufactured in hard iron and very abrasive resistant.

Auto priming, mixed flow, solids handling centrifugal pumps.

Super Silent options available.

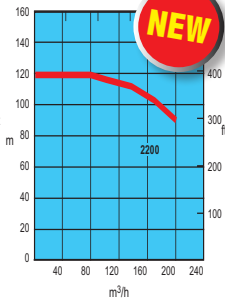
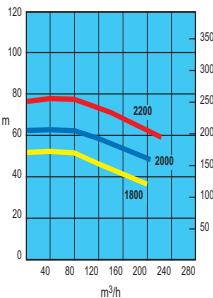
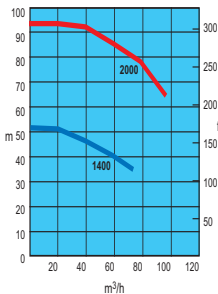
Also see pages 69/70 for fuel cubes and the Selwood refuel facility.

Download application reports from www.selwoodpumps.co.uk





'H' RANGE

H80**SELPRIME****HM100****SELPRIME****H100****SELPRIME**

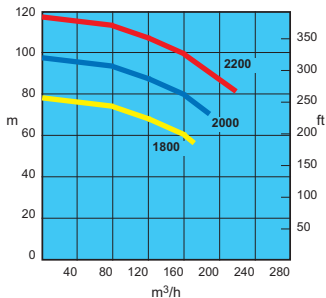
	H80	HM100	H100 NEW
Capacity	95 m ³ /h	225 m ³ /h	225 m ³ /h
Total Head	95 m	79 m	120 m
Self-Priming Lift	8.8 m	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m	9.1 m
Operating Speed	2000 rpm	2200 rpm	2200 rpm
Solids Size	19 mm	30 mm	30 mm
Air Handling	4.25 l/s	24 l/s	24 l/s
Port Size In/Out	80 mm	100 mm	100 mm
Weight (lowest)	1100 kg	2940 kg	1700 kg
Engine Types	Deutz D914L04 Isuzu 4IG1 Hatz 4L41C	Deutz D914L06 Isuzu 4BGIT 55 kW Belt Driven Electric	Perkins 1104D CAT C4.4

'H' RANGE



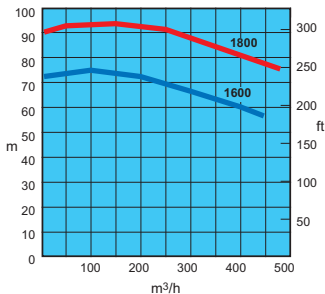
H125

SELPRIME



H150

SELPRIME



	H125	H150
Capacity	210 m ³ /h	450 m ³ /h
Total Head	118 m	95 m
Self-Priming Lift	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m
Operating Speed	2200 rpm	1800 rpm
Solids Size	35 mm	38 mm
Air Handling	24 l/s	24 l/s
Port Size In/Out	150/100 mm	150 mm
Weight (lowest)	2950 kg	2830 kg
Engine Types	Isuzu 6BG1T	Volvo TD730VE Isuzu 6HK1TQ 150 kW Belt Driven Electric

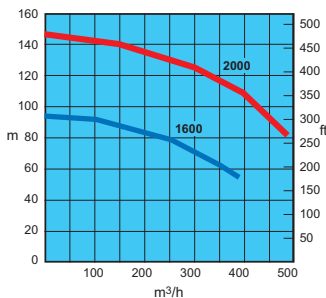
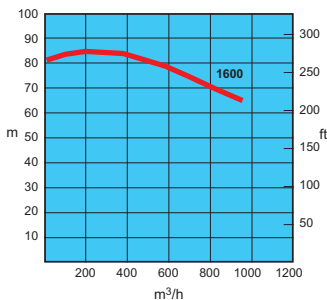


'H' RANGE

H200

SELPRIME

H150TS



	H150	H200	H150TS
Capacity	450 m ³ /h	950 m ³ /h	480 m ³ /h
Total Head	105 m	85 m	142 m
Self-Priming Lift	8.8 m	8.8 m	8.8 m
Suction Lift	9.1 m	9.1 m	9.1 m
Operating Speed	1800 rpm	1600 rpm	1600 - 2000 rpm
Solids Size	38 mm	60 mm	25 mm
Air Handling	24 l/s	24 l/s	24 l/s
Port Size In/Out	150 mm	200 mm	200 / 150 mm
Weight (lowest)	3015 kg	5500 kg	2750 kg
Engine Types	CAT C6.6	Volvo TWD1210V Cat 6.6	Volvo TD1030

'HS' POWERPACKS



The high performance hydraulic submersible Selwood Hydrosub pumps comprise 50mm to 200mm models with electric start diesel driven hydraulic power packs fully protected by an automatic shutdown system. A unique feature of this range of pumps is their versatility and are capable of a high flow and low head or a low flow and high head.

The hydraulic system can run on synthetic biodegradable or vegetable oil which significantly reduces harmful environmental pollution. The hydraulics incorporate a large return filter ensuring that any contaminants are captured and the fuel tank has flushing panels and a drain facility as well as providing 24hr running capability.

HSP10 - Open set available.

HSP20 - Super Silent option available.

HSP35 - also available with road tow and skid chassis.

HSP 35 Super Silent - Can be run as either a HSP35 or a HSP20 by switching the valve on the hydraulic tank.

HSP110 Super Silent - Can run 1 x 200mm pump, 2 x 150mm pumps or the "Seldredge" and 1 x 50mm pump as a water feed.

All Super Silent models have banded fuel tanks.



**Also see pages 69/70 for fuel cubes and the Selwood refuel facility.
Download application reports from www.selwoodpumps.co.uk.**



'HS' POWERPACKS

	HSP10	HSP20	HSP35	HSP35 S/S	HSP110 S/S
Length	1800mm	1830mm	1830mm	2150mm	2450mm
Width	968mm	1076mm	1076mm	1200mm	1450mm
Height	1320mm	1630mm	1630mm	1600mm	2140mm
Basic Weight	460kg	760kg	840kg	1475kg	2200kg
Hydraulic Flow	20 lt/min	30 lt/min	60 lt/min	60 or 30 lt/min	2 x 60 lt/min 1 x 20 lt/min
Hydraulic Pressure	138 bar	206 bar	206 bar	206 bar	206 bar



'HS' WET ENDS



The Selwood "HS Range" power packs can each run a number of different wet ends dependent upon the material that is to be pumped.

POWERPACK	WET ENDS AVAILABLE	DESCRIPTION
HSP10 & HSP20 <i>(at reduced speed)</i>	HS25B HS50B HS50D HS50H HS75D	2 Stage Bore Hole 50mm - Borehole 50mm - Drainer 50mm - High Head 75mm - Drainer
HSP20 & HSP35 S/S <i>(switched to HSP20 mode)</i>	HS25H HS50J HS75D HS100D HS100S HS100C HS100SC HS150L	3 Stage Bore Hole 50mm - Jet 75mm - Drainer 100mm - Drainer 100mm - Vortex 100mm - Chopper 100mm - Screw 150mm - Low Head
HSP35 HSP35 S/S HSP110	HS100SC HS100H HS150D HS150S HS150C HS150SC HS200D	100mm - Screw 100mm - High Head 150mm - Drainer 150mm - Vortex 150mm - Chopper 150mm - Screw 200mm - Drainer
HSP110	HS200D Seldredge	200mm - Drainer 150mm - Dredger

Two HSP35's can run a Seldredge unit.

HSP110 can run two 100mm or 150mm wet ends at the same time.



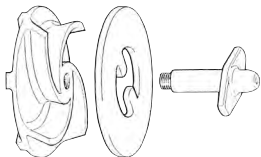
'HS' WET ENDS

Generally, all Selwood wet end designations are followed by a letter which indicates its supplied impeller and primary use, as follows:

S - Vortex, suitable for larger solids handling, which pass beneath the impeller. Its straight blades help self cleaning.



C - Chopper pump also suitable for solids, with hardened impeller and chopping blade giving long life in arduous conditions.



H - High head pump with high performance. Smaller solids can normally be handled.



D - Drainer pump for high volume. Larger solids can pass straight through the volute past the non-block impeller.



SC - Screw pump. Sludge pump, handles fluids other pumps would stop pumping.



J - Jetting pump. Super high pressure.

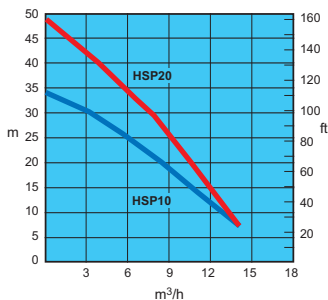
L - Low head pump. Good pumping solution when end suction pumps can not be placed near fluid. Engine and pack can be up to 100m away.

B - Bore hole pump for leachate.

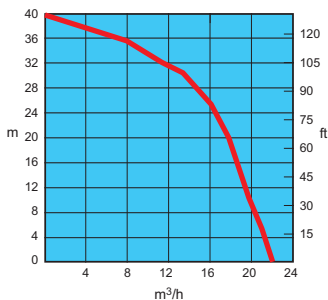
'HS' WET ENDS



HS25B & HS25H



HS50B



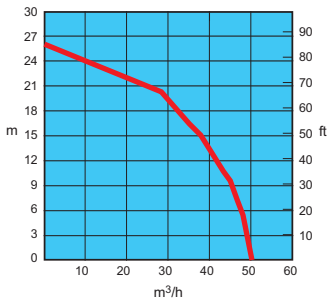
	HS25B & HS25H	HS50B
Length	600 mm	600 mm
Diameter	117 mm	192 mm
Weight - Aluminium	-	17 kg
Weight - Iron	16 kg	30 kg
Weight - Stainless Steel	-	32 kg
Maximum Head	34 m / 49 m	40 m
Maximum Flow	14.3 m³/hr	22 m³/hr
Solids Handling	3 mm	3 mm



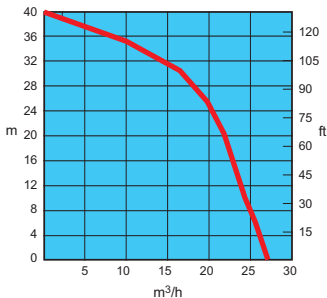


'HS' WET ENDS

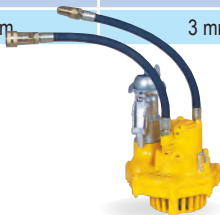
HS50D



HS50H



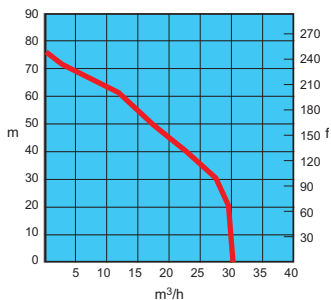
	HS50D	HS50H
Length	260 mm	260 mm
Width	220 mm	220 mm
Height	280 mm	280 mm
Weight - Aluminium	13.5 kg	13.5 kg
Weight - Iron	20 kg	20 kg
Weight - Stainless Steel	20 kg	20 kg
Maximum Head	26 m	40 m
Maximum Flow	50 m ³ /hr	27 m ³ /hr
Solids Handling	10 mm	3 mm



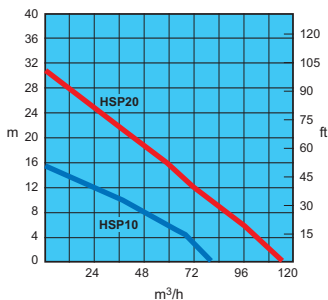
'HS' WET ENDS



HS50J



HS75D



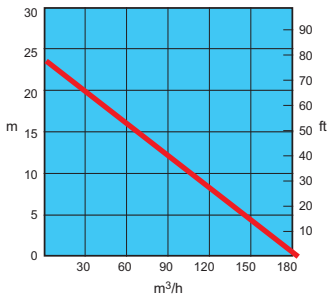
	HS50J	HS75D
Length	260 mm	410 mm
Width	220 mm	312 mm
Height	280 mm	550 mm
Weight - Aluminium	13.5 kg	33 kg
Weight - Iron	20 kg	40 kg
Weight - Stainless Steel	20 kg	55 kg
Maximum Head	75 m	15 m
Maximum Flow	30 m³/hr	80 m³/h
Solids Handling	3 mm	24 mm



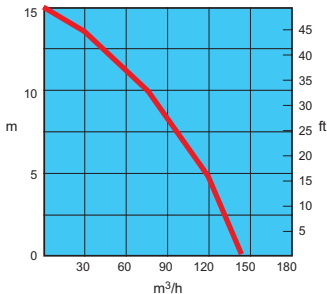


'HS' WET ENDS

HS100D



HS100S



	HS100D	HS100S
Length	480 mm	480 mm
Width	355 mm	355 mm
Height	610 mm	610 mm
Weight - Aluminium	47 kg	47 kg
Weight - Iron	54 kg	54 kg
Weight - Stainless Steel	75 kg	75 kg
Maximum Head	23 m	15 m
Maximum Flow	185 m³/hr	145 m³/hr
Solids Handling	50 mm	75 mm



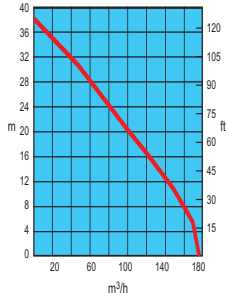
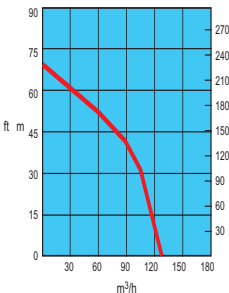
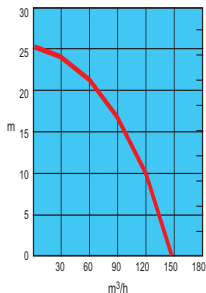
'HS' WET ENDS



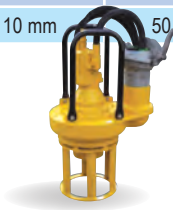
HS100C

HS100H

HS100SC



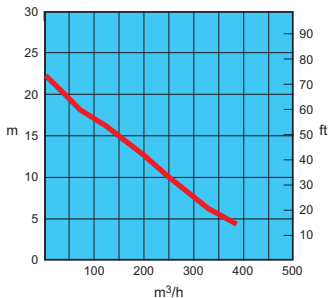
	HS100C	HS100H	HS100SC
Length	480 mm	480 mm	480 mm
Width	355 mm	355 mm	355 mm
Height	610 mm	575 mm	735 mm
Weight - Aluminium	47 kg	47 kg	47 kg
Weight - Iron	54 kg	54 kg	54 kg
Weight - Stainless Steel	75 kg	75 kg	75 kg
Maximum Head	26 m	69 m	38.7 m
Maximum Flow	146 m ³ /hr	130 m ³ /hr	178 m ³ /hr
Solids Handling	50 mm	10 mm	50 mm



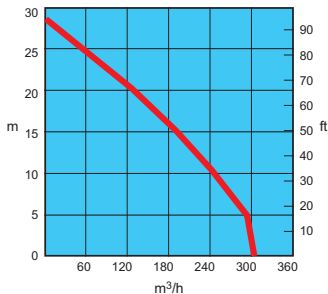


'HS' WET ENDS

HS150D



HS150C



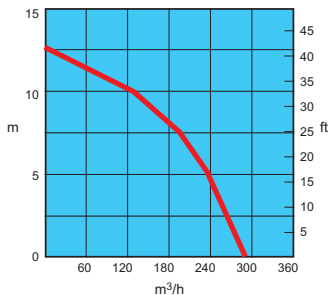
	HS150D	HS150C
Length	800 mm	800 mm
Width	550 mm	550 mm
Height	790 mm	850 mm
Weight - Aluminium	101 kg	101 kg
Weight - Iron	142 kg	142 kg
Maximum Head	28.5 m	28.5 m
Maximum Flow	420 m³/hr	307 m³/hr
Solids Handling	75 mm	50 mm



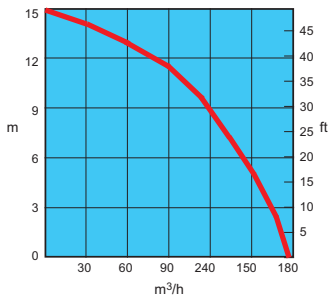
'HS' WET ENDS



HS150S



HS150L



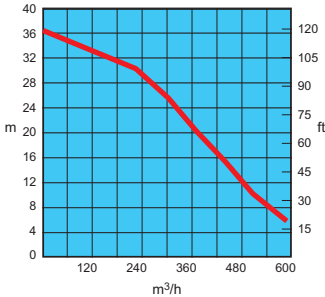
	HS150S	HS150L
Length	800 mm	800 mm
Width	550 mm	550 mm
Height	850 mm	850 mm
Weight - Aluminium	101 kg	122 kg
Weight - Iron	142 kg	163 kg
Maximum Head	12.75 m	15 m
Maximum Flow	290 m³/hr	180 m³/hr
Solids Handling	100 mm	50 mm





'HS' WET ENDS

HS200



	HS200
Length	1000 mm
Width	600 mm
Height	1000 mm
Weight - Aluminium	175 kg
Weight - Iron	250 kg
Maximum Head	37 m
Maximum Flow	575 m³/hr
Solids Handling	31 mm

'HS' SELDREDGE

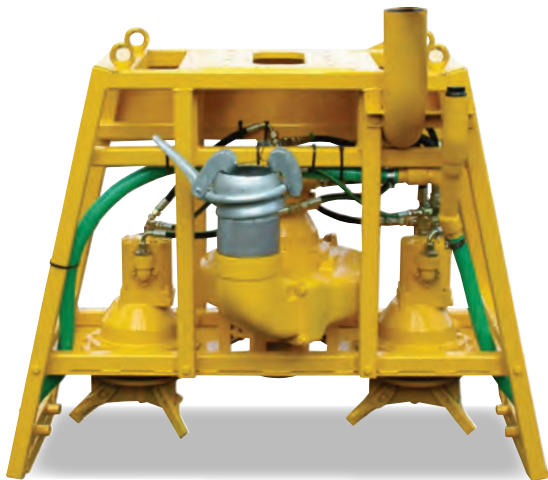


A modular system with a 150mm screw pump used to mix heavy sludges and pump them away.

Two 46cm rotors each side of the pump, condition the sludge into a pumpable liquid by breaking up solids.

Extra water can be added from nozzels directed at the rotors to help condition less fluid materials.

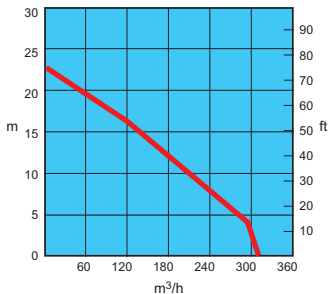
1 x HSP110 powerpack is required to run the Seldredge or 2 x HSP35 powerpacks - one for the rotors and one for the screw pump.





'HS' SELDREDGE

Seldredge



Seldredge

Length	1591 mm
Width	600 mm
Height	1183 mm
Weight	620 kg*
Maximum Head	23 m
Maximum Flow	324 m³/hr
Solids Handling	75 mm

* Weight includes quick-hitch



SUPER SILENT



Selwood has launched a generation of Super Silent units designed for applications in noise sensitive areas. With noise levels as low as 55db(A)* at full speed and load, Selwood has the quietest and most environmentally friendly diesel pump range available on the market.

The fully bundled (see page 11) Super Silent versions are available throughout the 'S' range (solids handling), 'H' range (high head), 'D' range (high volume) and 'HS' range (hydraulic submersible). They use the same principles of modular construction similar to the standard pumps, with as many common components as possible.



Both skid and fast tow versions are available for most ranges.

Contact your local Selwood branch for a personal demonstration.

* 55 dB(A) - latest S150 models



Download application reports from www.selwoodpumps.co.uk



SUPER SILENT

Model	See Page	dB(A) @7m	Run Hours	Skid Version Weight - kg		Fast Tow Version Weight - kg	
				Nett	Gross	Nett	Gross
D80	15	58	47	938	1005	1133	1200
D100	16	58	47	938	1005	1133	1200
D150	16	62	28	1665	1850	2005	2190
D150R	17	69	24	-	-	1103	1191
D200	17	62	34	2200	2520	-	-
D150WP	19	59	63	1570	1755	1910	2095
S100	23	59	45	1535	1720	1855	2060
S150	23	62/55*	27	1695	1880	2035	2220
S200	24	62	34	2200	2520	-	-
S300	25	64	45	4600	4650	-	-
H80	27	62	19	1545	1730	1865	2070
H100	27	66	22	2620	2940	-	-
H125	27	66	48	2950	2950	-	-
H150	28	66	30	3800	3835	-	-
HSP20	31	62	24	1475	1660	2150	2330
HSP35	31	62	24	1475	1660	2150	2330
HSP110	31	62	20	2200	2520	-	-

* 55 dB(A) - latest S150 models

ELECTRO - DRAINAGE



Submersible drainage pumps are suitable for a very broad field of application. They are used for dewatering on construction sites for houses, streets and roads, tunnels and rock caverns, harbours and dams; for drainage and ballast pumping in shipyards, for drainage in the event of flooding in mines and industrial plants, for cooling, clean water, raw water supply and water spraying.

The impeller is an open or semi-open channel impeller, made of abrasion resistant high chromium steel and designed specifically for handling media containing highly abrasive materials such as clay, sand and drilling fines.

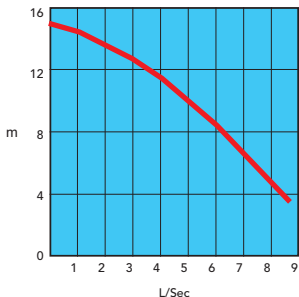


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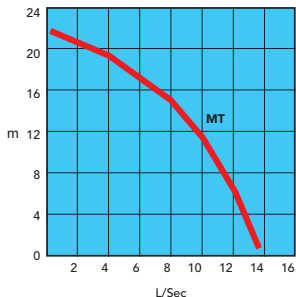


ELECTRO - DRAINAGE

BS2052 / Minex



BS2620 MT / BS2066 MT

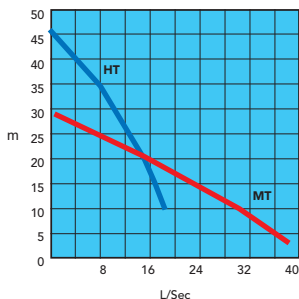


	BS2052 / Minex	BS2620 MT BS2066 MT
Motor	0.9 kW 2800 rpm	2.2 kW 2800 rpm
Voltage	1 ph	3 ph
Running Amps	10 amps	4.7 amps
Height (max)	520 mm	617 mm
Width (max)	240 mm	240 mm
Weight	17 kg	30 kg
Hose Size	50 mm	75 mm
Generator Required	3 KVA	6 KVA

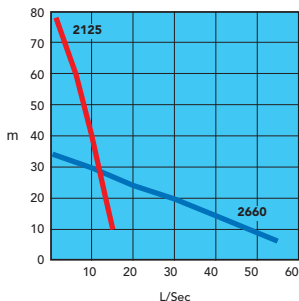
ELECTRO - DRAINAGE



BS2640 / BS2102



BS2660 & BS2125 HT



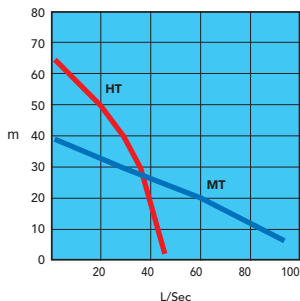
	BS2640 BS2102	BS2660	BS2125
Motor	5.6 kW 2850rpm	10 kW 2850 rpm	8.0 kW 2800 rpm
Voltage	3 ph	3 ph	3 ph
Running Amps	11 amps	19 amps	15 amps
Height (max)	759 mm	853 mm	845 m
Width (max)	286 mm	346 mm	565 mm
Weight	51 kg	78 kg	85 kg
Hose Size	75 - 100 mm	MT 150 mm	HT 75 mm MT 150mm
Generator Required	14 KVA*	30 KVA*	27 KVA*

* Soft start control panel available.

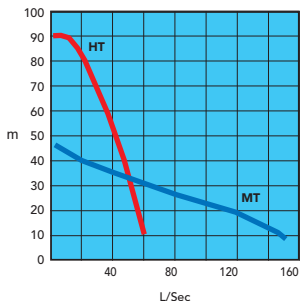


ELECTRO - DRAINAGE

BS2670



BS2201



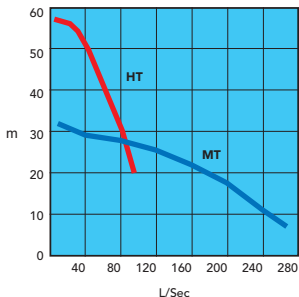
	BS2670 / BS2151	BS2201
Motor	18 kW 2890 rpm	37 kW 2900 rpm
Voltage	3 ph	3 ph
Running Amps	32 amps	65 amps
Height (max)	955 mm	1215 mm
Width (max)	395 mm	500 mm
Weight	140 kg	280 kg
Hose Size	HT 100 mm MT 150 mm	HT 100 mm MT 200 mm
Generator Required	50 KVA*	80 KVA*

* Soft start control panel available.

ELECTRO - DRAINAGE



BS2250



	BS2250
Motor	54 kW 1470 rpm
Voltage	3 ph
Running Amps	96 amps
Height (max)	1200 mm
Width (max)	950 mm
Weight	540 kg
Hose Size	HT 150 mm MT 200 mm MT 250 mm
Generator Required	125 KVA*

* Soft start control panel available.



ELECTRO - SLUDGE

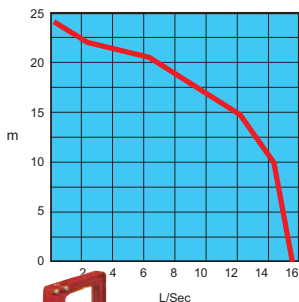
These submersible units have proven to be a useful and reliable tool for the removal of heavily contaminated liquids.

Utilising a vortex impeller, these units are an efficient and economical choice for applications such as stone working industries, pulp and paper and power stations.

GRINDEX Sandy

Max. Flow	15.7 l/sec
Solids Handling	46 mm
Maximum Head	24 m
Voltage	400 v
Rated Output	5.0 kW
Phase	3
Running Amps	11 amps
Starter	DOL / Soft
Height	755 mm
Width (max)	480 mm
Weight (max)	55 kg
Outlet Size	75 mm
Generator	20 KVA*

GRINDEX Sandy



* Soft start control panel available

ELECTRO - SLURRY



Made of Hard Iron & High Chrome Iron, these pumps are for use where abrasive slurries are to be pumped. Many of these units are fitted with an agitator to assist in the loosening of the medium to be pumped. Applications include bentonite works, sand quarries, mines, industrial waste, effluent with solids, harbour dredging and silt removal.

Suitable for: Bentonite, sand extraction, mining industrial waste, all types of effluent with solids in suspension, dredging of harbours, cleaning of rivers, lakes and lagoons, underwater work, silt removal and general sludge disposal.



Download application reports from www.selwoodpumps.co.uk

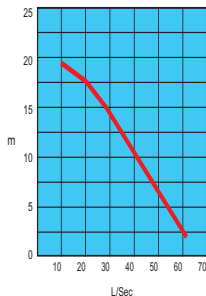
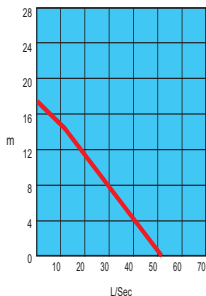
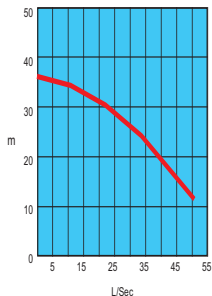


ELECTRO - SLURRY

EL35

RD 4030 DO

HS 8044



	DRAGFLOW EL35	ITT ROBOT RD 4030 DO	FLYGT HS 8044
Outlet	100 mm	100 mm	100 mm
Running Amps (400 v)	53 amps	15 amps	26 amps
Rated	26 kW	7.5 kW	13 kW
Speed (50 hz)	960 rpm	1450 rpm	1450 rpm
Max Solids	35 mm	30 mm	40 mm
Generator Size	60 KVA	30 KVA	40 KVA
Weight	750 kg	124 kg	150 kg
Max Width	900 mm	713 mm	800 mm
Max Height	1430 mm	850 mm	1000 mm



This series of submersible pumps cover an extensive performance range and can be used in a variety of applications, from pumping sewage in treatment plants and municipal applications to irrigation, industrial effluent, process water and raw water handling to applications in aquaculture and agriculture.

An extensive range of hydraulic components (ie: impeller, volute) are available to handle the different types of media.

There is a built in cooling system on all pumps rated above 9 kW. Vanes at the top of the pump impeller circulate cooling water through a narrow slot around the stator housing.

Explosion proof pumps are also available.



DRY WELL STAND

Dry Well Stand to fit all 12" sewage submersible pumps (see right).

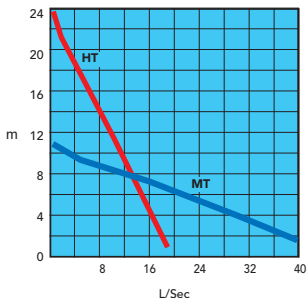


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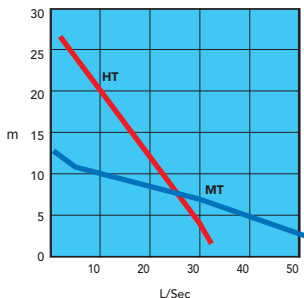


ELECTRO - SEWAGE

NS 3085 MT & CS 3085 HT



NS 3102 MT & CS 3102 HT



FLYGT	NS 3085 MT	CS 3085 HT	NS 3102 MT	CS 3102 HT
Power	2 kW	2.4 kW	3.1 kW	4.4 kW
Motor	4 pole	2 pole	4 pole	2 pole
Max. Flow	40 l/sec	18 l/sec	50 l/sec	30 l/sec
Max. Head	11 m	25 m	13 m	27 m
Solids	76 mm	40 mm	76 mm	52 mm
Discharge	80 mm	80 mm	100 mm	80 mm
Full Load	4.6 amps	4.7 amps	6.9 amps	8.6 amps
Starter	DOL		DOL	
Weight	71 kg	58 kg	116 kg	109 kg
Height	610 mm		705 mm	
W x L	390 x 490 mm		380 x 650 mm	
Generator	6 KVA*		15 KVA*	

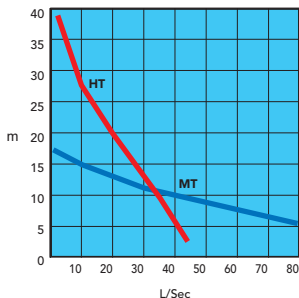
All the above pumps are 3 phase, 400V, 50HZ

* Soft start control panel available

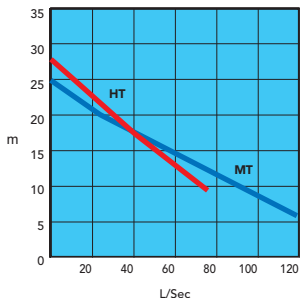
ELECTRO - SEWAGE



NS 3127 MT & CS 3127 HT



NS 3153 MT & HT



FLYGT	NS 3127 MT	CS 3127 HT	NS 3153 MT	NS 3153 HT
Power	5.9 kW	7 kW	13.5 kW	13.5 kW
Motor	4 pole	2 pole	4 pole	4 pole
Max. Flow	80 l/sec	40 l/sec	120 l/sec	70 l/sec
Max. Head	18 m	38 m	23 m	28 m
Solids	100 mm	76 mm	100 mm	76 mm
Discharge	100 mm	80 mm	150 mm	100 mm
Full Load	12 amps	14 amps	28 amps	
Starter	DOL		ASD / Soft	
Weight	158 kg	160 kg	232 kg	210 kg
Height	765 mm		1068 mm	
W x L	400 x 635 mm		530 x 900 mm	
Generator	27 KVA*		40 KVA*	

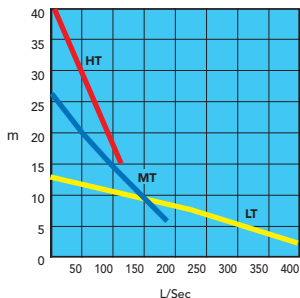
All the above pumps are 3 phase, 400V, 50HZ

* Soft start control panel available

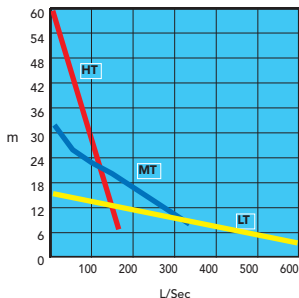


ELECTRO - SEWAGE

NS 3202 LT & MT, CS3201 HT



NS 3301 LT & MT, CS3300 HT



FLYGT	NS 3202 LT	NS 3202 MT	CS 3201 HT	NS 3301 LT	NS 3301 MT	CS 3300 HT
Power	22 kW	30 kW	30 kW	37 kW	44 kW	54 kW
Motor	6 pole	4 pole	4 pole	8 pole	6 pole	4 pole
Mx. Flow	400 l/sec	200 l/sec	115 l/sec	600 l/sec	325 l/sec	155 l/sec
Mx. Head	14 m	25 m	40 m	16 m	32 m	55 m
Solids	100 mm	100 mm	77 mm	100 mm	100 mm	90 mm
Discharge	300 mm	200 mm	150 mm	300 mm	300 mm	150 mm
Full Load	43 amps	54 amps	56 amps	80 amps	93amps	100 amps
Starter	ASD / Soft			ASD / Soft		
Weight	900 kg	605 kg	605 kg	1110 kg	1176 kg	1003 kg
Height	1571 mm	1415 mm	1455 mm	1915 mm	1915 mm	1825 mm
W x L	1000 x 1450 mm	630 x 1150 mm	570 x 1150 mm	1608 x 1500 mm	1500 x 1500 mm	1000 x 1250 mm
Generator	50 KVA*			100 KVA*	125 KVA*	150 KVA*

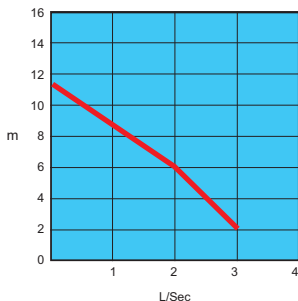
All the above pumps are 3 phase, 400V, 50HZ

* Soft start control panel available

PUDDLE SUCKER



The Tsurumi LSC 1.4S Puddle Sucker is able to pump water down to 1mm, which makes it suitable for pumping nuisance water on flat surfaces.

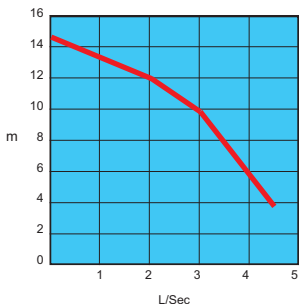


	TSURUMI
Capacity	4.0 l/sec
Solids Handling	Nil
Maximum Head	11 m
Voltage	110 v
Rated Output	0.48 kW
Starter	Plug in and start
Height	316 mm
Width (max)	196 mm
Weight (max)	12 kg
Outlet Size	25 mm
Generator	2 KVA

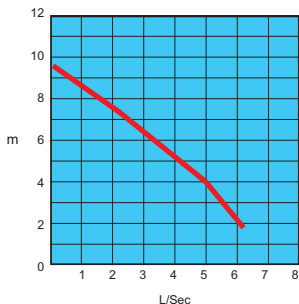


DRAINAGE & VORTEX

TSURUMI LB 800



TSURUMI JS 750SV



	LB 800	JS 750SV
Capacity	5.2 l/sec	6.3 l/sec
Solids Handling	6 mm	46 mm
Maximum Head	15 m	9.5 m
Voltage	110 v	110 v
Rated Output	0.75 kW	0.75 kW
Starter	Manual / Auto	Manual / Auto
Height	341 mm	495 mm
Width (max)	187 mm	280 mm
Weight (max)	14 kg	25 kg
Outlet Size	50 mm	80 mm
Generator	3 KVA	3 KVA

The Tsurumi LB 800 Drainage pump is used generally by industry and is suitable for dirty water.

The Tsurumi JS 750SV Vortex can accommodate suspended solids and fibres up to 46mm.

ELECTRICAL GUIDE

Whilst it is appreciated that pumps have been started using smaller generators than those quoted, these figures are meant as a guide and will ensure good starting under normal conditions.

A rule of thumb guide for working out the amperage required to start electric pumps follows: (Please note this is not an exact science as factors such as pump loading due to discharge main, viscosity, set of liquid being pumped or the condition of pump itself must be taken into account).

D.O.L.	5 × Running Current
A.S.D.	3 × Running Current
Auto Transformer	2 × Running Current
Soft Starting	1.75 × Running Current

When using more than one pump from a generator, it is important not to start both pumps together. Therefore, when sizing a generator, take the running current of a pump and add to it the starting current of the second pump in order to calculate the amperage required.

For example, a pump drawing 35 amps, i.e. a Matador, starting on Auto Transformer = 70 amps plus 35 amps running which equals a total of 105 amps. $105/1.25 = 84$ kva and therefore the generator required for 2 Matador Pumps is 100 kva.

For further technical information please contact your local Selwood pump hire branch.

GENERATOR SIZE CHART

	Model	kW	Amps	Starter	Generator
Drainage	BS 2052	1.0	14.0	DOL	3 KVA
	BS 2620	2.2	4.7	DOL	6 KVA
	BS 2640	5.6	11.0	DOL	14 KVA
	BS 2660	10.0	19.0	DOL	30 KVA
	BS 2125	8.0	15.0	DOL	27 KVA
	BS 2670	18.0	32.0	S/Start	50 KVA
	BS 2201	37.0	65.0	S/Start	80 KVA
	BS 2250	54.0	96.0	S/Start	125 KVA
SI	Sandy	5.0	11.0	DOL	20 KVA
Slurry	RD 4030 DO	7.5	15	DOL	30 KVA
	EL35	26	53	S/Start	60KVA
	HS 8044	13	26	DOL	40KVA
Sewage	CS 3085	2.0 / 2.4	4.6 / 4.7	DOL	6 KVA
	CS 3102	3.1 / 4.4	6.9 / 8.6	DOL	15 KVA
	CS 3127	5.9 / 7.4	12.0 / 14.0	DOL	27 KVA
	CS 3153	13.5	28.0	DOL	40 KVA
	CS 3202	22 / 30	43 / 54	S/Start	50 KVA
	CS 3201	30	56	S/Start	50 KVA
	CS 3301	37 / 44	80 / 93	S/Start	100 / 125 KVA
	CS 3300	54	100	S/Start	150 KVA
Misc.	LSCI 45	0.48	6.2	Man	2 KVA
	LB 800	0.75	13.9	Man/Auto	3 KVA
	JS 750SV	0.75	14.0	Man/Auto	3 KVA

Figures based upon full specification within the text.

VOLTAGE DROP

In accordance with Electricity Safety, Quality and Continuity Regulations 2002, the voltage drop between the origin of the installation (usually the supply terminals) and the socket-outlet or the terminals of the fixed current-using equipment, must not exceed 4% of the nominal voltage of the supply.

eg. 3 phase 400 volt supply. Max voltage drop = 16 volts.

1 phase 220 volt supply. Max voltage drop = 8.8 volts.

USING MULTICORE ARMOURED PVC CABLE

$$\text{Voltage Drop} = \frac{\text{MV/A/M} \times \text{AMPS} \times \text{DISTANCE}}{1000}$$

The current rating of the cabling should also be assessed to ensure the correct sized cable is selected for the application.

MM SQ	Cable Current Rating	MV/A/M 1 phase	Cable Current Rating	MV/A/M 3 phase
1.5	29	31	25	25
2.5	39	19	33	15
4	52	12	44	9.5
6	66	7.9	56	6.4
10	90	4.7	78	3.8
16	115	2.9	99	2.4
25	152	1.9	131	1.5
35	188	1.35	162	1.1
50	228	1.0	197	0.81
70	291	0.69	251	0.57
120	410	0.42	353	0.35

Example:

Cable size = 2.5mm

Pump amps = 16

Distance = 30m

3 phase

$$\frac{15 \times 16 \times 30}{1000}$$

Voltage Drop = 7.2

The voltage drop calculated is within the permissible percentage and also the current rating of the cable for the operating conditions.



PRESSURE TEST

A range of portable pressure test and pressure washer pumps from 34bar to 172bar are available. These pumps are mostly diesel driven incorporating a 22 litre header tank with a ballcock that can be connected to a water bowser, the mains or any other supply that is available.

Pump output pressure can be regulated up to the maximum output and incorporates a pressure gauge so that pressure build up can be regulated to the desired level.

Alternatively, the pumps can be utilised as pressure washers and would be supplied with a lance plus 9m of 15mm outlet hose.

The 138 bar machine with a Kubota diesel engine option come with an electric start facility.

	34 bar	103 bar	138 bar	172 bar
Flow Rate	0.47 m ³ /h	0.47 m ³ /h	0.9 m ³ /h	1.08 m ³ /h
Pump Type	3 plunger	3 plunger	3 plunger	3 plunger
Engine	3 hp Honda Petrol	7 hp Lister	7 hp Kubota	9 hp Lister
Start	Cord Recoil	Crank Handle	Electric	Crank Handle
Frame	Carry Lightweight	Carry or Trolley	Trolley	Trolley
Mobility	Portable	Portable Wheels	Wheeled	Wheeled
Weight	15 kg	20 kg	60 kg	60 kg
L x W x H (cm)	46 x 38 x 38	56 x 41 x 49	89 x 69 x 71	89 x 69 x 71
Suction Hose	12.5 mm x 3 m	12.5 mm x 3 m	12.5 mm x 3 m	12.5 mm x 3 m
Discharge Hose	15 mm x 9 m	15 mm x 9 m	15 mm x 9 m	15 mm x 9 m

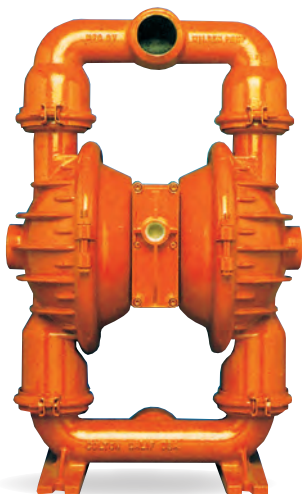
High pressure lance available for all of the above

AIR OPERATED PUMPS



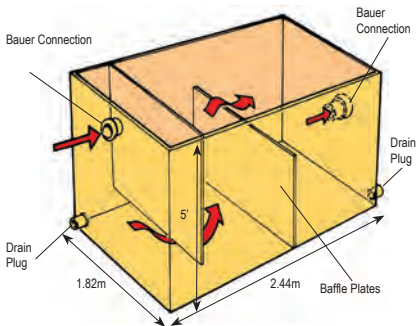
Model Type	Discharge	Max Flow	Max Head
M4 - Aluminium Body	38 mm	19 m ³ /h	73 m
M8 - Aluminium, Stainless Steel, Polypropylene or Cast Iron Body	50 mm	41 m ³ /h	73 m
M15 - Aluminium Body	75 mm	63 m ³ /h	73 m

- Double diaphragm, compressed air pumps
- Ideal for use in industrial applications, especially in hazardous areas. Complies to Zone 1 & Zone 2 groups IIA IIB
- Various elastomers are available for diaphragms and check valves, such as Viton, PTFE etc
- Ideal for use with hydrocarbons and both acidic and alkaline chemicals
- Extremely powerful lightweight units capable of handling viscous sludges, abrasive sludges, heavy oils, screened sewage etc
- Will operate submerged or surface mounted
- Simple and reliable construction, will run dry indefinitely without damage
- Low air consumption. – M4: 50cfm @ 5.5 bar, M8/M15: 120cfm @ 6.4 bar. Maximum pressure 8.6 bar.





TANKS & TRAYS



SETTLEMENT & SEPARATION TANKS

The use of settlement tanks is becoming more critical for applications where water with fines is to be discharged into a water course. The Environmental Agency is enforcing the requirement to separate solids before discharging.

Selwood can supply various sizes of settlement tanks and set them up in order to comply with current regulations.

Details of a typical tank are shown below.

1500 gallon Settlement Tank shown (2.44m x 1.83m x 1.52m).

Suitable for use with a 150mm pumpset

DRIP TRAY

Various sizes are available for all pumps.

Some pumps come complete with a built-in drip tray and all Super Silent models are fully bunded. Drip trays with built-in interceptors are also available.



SKIMMER

Oil, sludge or algae removal from lagoons, ponds and settlement tanks.

The system utilises a PD75 Selwood Spate pump coupled to a Skimmer (right) which provides high performance weir separation. It can be modified so that only the top few millimetres of the water can be skimmed off.

Contaminated sludge/oil etc can then be pumped into a separation tank where the contaminants are held separately from the water and removed.

Should a complete separation be required, a Selwood Engineer can advise upon the best solution for your problem.





FUEL DISPENSERS

DISPENSERS

Some large Selwood pumps require a fuel cube to operate as they have only a small internal priming fuel tank. Contact your Selwood branch for details.

Fuel (bunded)	100 litres, supplied with drum pump
Fuel Cube (bunded) "Pump Re-Fueller" for larger pump sets	908 or 950 litres, supplied with hand pump and fuel line (Refueller is supplied without pump)



BOWSERS

Bunded fuel bowsers protect sensitive sites by eliminating the possibility of fuel spills.
Supplied with discharge hose and pump.

1100 litres (250 gallons), site, road towable and static
2250 litres (500 gallons), site and static

REFUEL



Selwood now provides a re-fuel service for existing on-hire bowzers or cubes. By calling **08450 733835** you will be put into contact with the closest Selwood branch who can arrange for your bowser or cube to be topped up.

This service is of particular interest to pump users who need to ensure a constant supply of fuel during long pumping operations!



SUBMERSIBLE CONTROL PANELS

Selwood starter panels provide easy use and offer different starting methods ranging from direct-on-line (DOL), star delta, auto transformer and soft start.

2 - 15 kW VARIABLE OVERLOAD D.O.L. STARTER

- One starter size for many pumps
- Plug and go or hard wired
- Operator flexibility
- Variable overload setting
- Data monitoring
- Level control by High/Low floats, in conjunction with ultrasonics or other level control systems
- Designed to IP65 protection

20 - 55 kW - SOFT START

- Low start up current
- Plug and go or hard wired
- Increased motor life
- Smaller generator / power supply
- Variable overload setting
- Data monitoring
- Level control by High/Low floats, in conjunction with ultrasonics or other level control systems
- Designed to IP65 protection





DIESEL DRIVEN PUMPS CONTROL PANEL

This unique Selwood Autostart system gives automatic starting and stopping of the diesel driven pumpset depending on the level of liquid being monitored.

The panel can be either fixed to the pump or wall mounted.



Benefits

- **Automatic engine control** from 2 level switches that monitor the liquid level and activate the pump to start and stop automatically
- **Fuel saving.** The diesel engine no longer has to constantly run. The pump only operates when there is sufficient liquid to pump
- **Emergency use.** The diesel pumpset can be utilised to serve as an emergency back-up to the main pump should the main pump fail or no longer be able to cope with an increased flow
- **A package to suit** your individual application. Example:- the pump may only be able to pump at certain times of the day
- **Labour saving.** Due to the automatic operation of the pump, labour attendance can be reduced, eg. fuel and starting



TELEMETRY UNIT

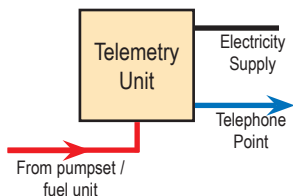
Selwood's unique telemetry units constantly monitor the pumpset and should a failure signal arise, the unit instantly sends a pre-recorded message to notify the fault.

- Monitor and alert the user to high liquid levels
- Monitor and alert the user to low fuel level in tank or bowser
- A pre-recorded message can be sent to up to three different telephone numbers (landline and/or mobile)
- Reduce the need for labour to monitor pumpsets
- Can be used in local and remote locations
- A text alert message can be sent giving fault, pump model and location
- Monitor and alert of service intervals (some models)

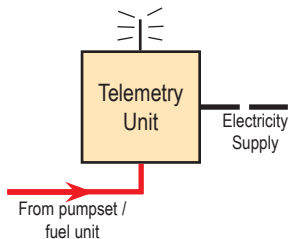
Requirements

- For local locations, a telephone point and single phase supply is needed

Local Telemetry System



Remote System





VARIABLE SPEED INVERTER

- 30 - 50 kw variable speed
- Reduced generator sizing
- Limits supply current to suit pump
- Provides optimum power, reducing fuel consumption
- Speed variation to match pump performance
- Eliminates excessive stop-start, reducing stress on pump components



FPC100 AUTOMATIC PUMP CONTROL

“Effective drainage without sensors.”

The FPC 100 allows automatic pump operation without the use of floats or level sensors. It closely monitors pump operation power, shutting off when water is not being pumped saving service costs, spare parts and high electricity bills.

ULTRA SONIC LEVEL CONTROL

This can be used instead of float switches. It is the water industry standard and offers numerous benefits such as multi-pump function and telemetry link. Up to 6 pumps can be controlled by one ultra-sonic controller.

One transducer (head) is used in the wet well instead of multiple stop/start float switches. This monitors liquid levels in the same way that a ships sonar measures sea depth by sending a signal down and recording the echo.

The unit is easily linked to analogue or digital telemetry for remote monitoring.



HOSE

Selwood have a comprehensive range of hose for all applications, complete with Bauer fittings. Branch members of staff will be happy to advise on your particular need.

Type	Size	Lengths	Weight
Blue Layflat (lever lock couplings)	50 mm	25m - 100m	7 - 25 kg
	80 mm	25m - 100m	13 - 38 kg
	100 mm	25m - 100m	16 - 50 kg
	150 mm	25m - 100m	34 - 107 kg
	200 mm	25m - 50m	47 - 78 kg
Poly hose	50 mm	6 m	5 kg
	80 mm	6 m	16 kg
	100 mm	6 m	20 kg
	150 mm	6 m	28 kg
	200 mm	6 m	55 kg
Flanged wire armoured	100 mm	6 m	28 kg
	150mm	3 m	86 kg
	200 mm	3 m	95 kg
	300 mm	3 m	216 kg
Wire armoured (lever lock couplings)	50 mm	6 m	11 kg
	80 mm	6 m	21 kg
	100 mm	6 m	29 kg
	150 mm	3 m	37 kg
	200 mm	3 m	66 kg
	300 mm	3 m	108 kg
Fire hose	63 mm	20 m	11 kg
Galvanised steel pipe (lever lock couplings)	80 mm	6 m	14 kg
	100 mm	6 m	19 kg
	150 mm	6 m	34 kg
	200 mm	6 m	46 kg
	300 mm	3 m	68 kg

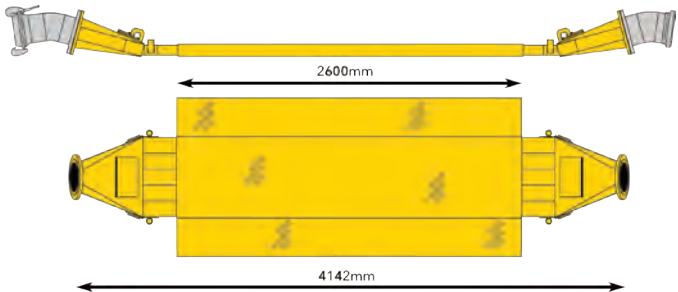




ROAD RAMP

For use where pipework extends over roads or footpaths

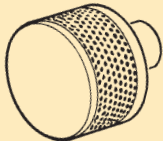
- Box section pipework
- 650 m³/hr flows
- 860 kg (inc. bawlers)
- 13 ton axle weight
- Disruption reduced
- Minimal installation cost
- Road warning signs supplied
- Environmentally friendly





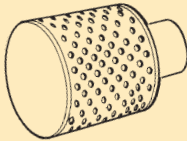
PUMP FITTINGS

Fine Suction Strainer



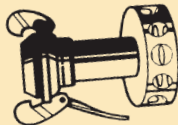
For Solids up to 8mm

Fine Suction Strainer



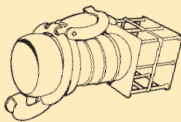
For Solids up to 13 mm

'D' Strainer



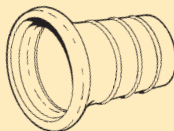
For solids up to 100 mm

'S' Strainer



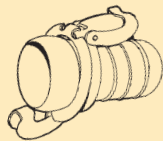
Bauer connection for solids up to 100 mm

Bauer Hose Spigot



Standard Female
50 mm - 250 mm

Bauer Hose Spigot



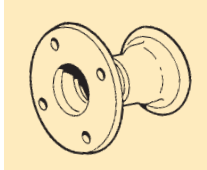
Standard Male
50 mm - 250 mm

A wide range of other accessories and fittings are available. See our Pumping Accessories brochure for further information

PUMP FITTINGS

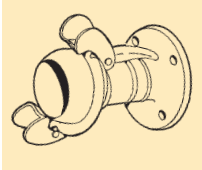


Connector



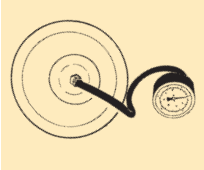
Flange to Female Table D or NP16

Connector



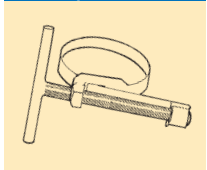
Flange to Male Table D or NP16

Vacuum Test Diaphragm



For system vacuum testing

Selclamps



For securing by hand up to 150psi

Rubber 'O' Ring



Bauer 'O' ring

Female End Plug



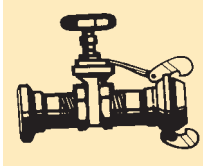
c/w rubber 'O' ring

A wide range of other accessories and fittings are available. See our Pumping Accessories brochure for further information



PUMP FITTINGS

Valve with Couplings



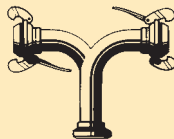
c/w closing ring and 'O' ring

90° Flow Branch



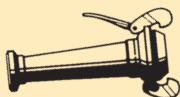
c/w 'O' ring and lever closure ring

Tee Bend



c/w 'O' ring and lever closure ring

Enlarger



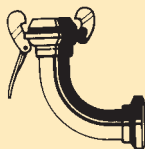
c/w 'O' ring and lever closure ring

Reducer



c/w 'O' ring and lever closure ring

90° and 45° Bend



c/w 'O' ring and lever closure ring

Male End Plug



c/w lever ring

A wide range of other accessories and fittings are available. See our Pumping Accessories brochure for further information

PRE START

1	Make sure pump will turn freely
2	Check driver and pump rotations agree with driver uncoupled
3	Make sure bearings are adequately charged with clean lubricant
4	Make sure any external lubricating, cooling, sealing etc. services and connections are turned on and operative
5	Check that pump runs without undue heating, noise or vibration; otherwise refer to detailed operating instructions for possible defects and rectify accordingly

TROUBLE SHOOTING GUIDE

Pump will not start

Use the engine or motor manufacturer's guide supplied with the pumpset

Pump will not prime

- a) Check for strainer and hose blockages
- b) Check for air leaks on all joints and hoses
- c) Check for vacuum at pump section and follow manufacturer's guide for further procedures

Pump will not discharge

- a) Check for closed valves in discharge line
- b) Check for kinks and blockages in discharge line
- c) Check the total head against pump performance specification

Noise and/or vibration

- a) Delivery is too high (speed high or head low) Try closing delivery valve
 - b) Suction lift too high for liquid temperature
 - c) Blocked suction line or impeller
 - d) Air or gas in liquid
 - e) Misalignment
 - f) Worn or defective bearings
- a) Refer to Selwood with full details if cause of defect cannot be traced

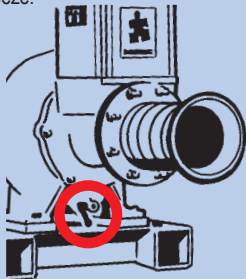
PUMP WILL NOT PRIME

1. Is the strainer in the liquid and not blocked?

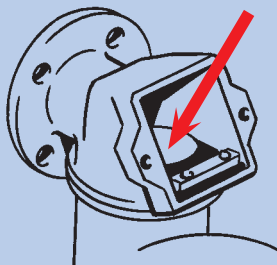


2. Is the drain cock under the pump volute closed? If not, shut off valve?

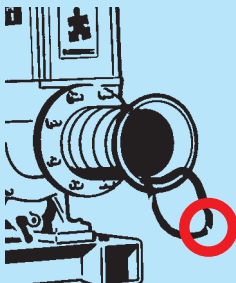
Note: Use drain in cold weather to ensure liquid in volute does not freeze.



3. Ensure non-return valve seat is clear of any debris. This can be done by opening the inspection plate.



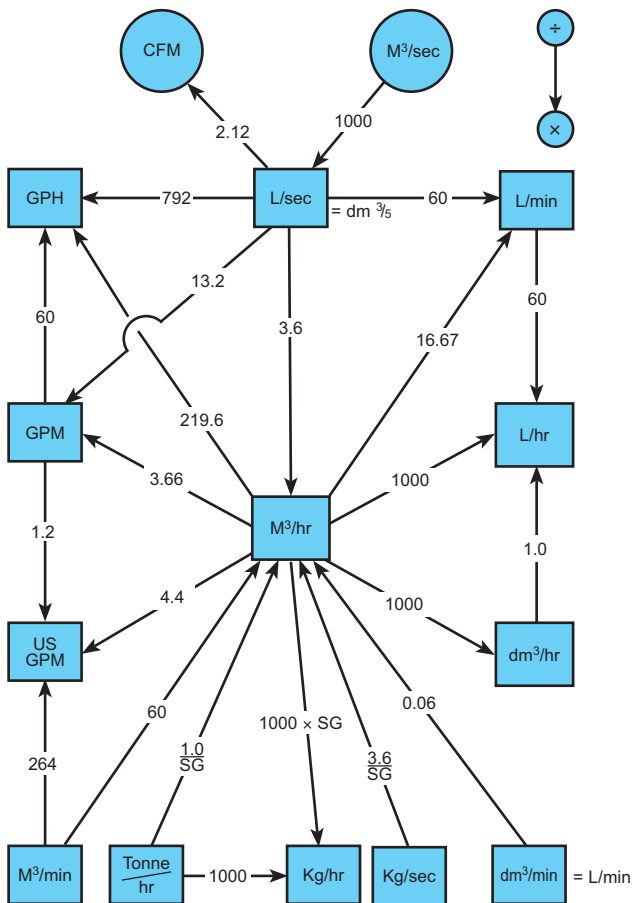
4. Ensure all 'O' rings on the suction side of the pump are in place. If they are damaged - replace. This includes suction hoses.



FLOW CONVERSIONS

0	m ³ /h	l/sec	l/min	i gpm	i gph
	10		200	50	2,000
	20	5	400	100	4,000
	30		600	150	6,000
	40	10	800	200	8,000
	50	15	1000	250	10,000
	60		1200	300	12,000
	70	20	1400	350	14,000
	80	25	1600	400	16,000
	90		1800	450	18,000
	100	30	2000	500	20,000
	110	35	2200	550	22,000
	120		2400	600	24,000
	130	40	2600	650	26,000
	140	45	2800	700	28,000
	150		3000	750	30,000
	160	50	3200	800	32,000
	170	55	3400	850	34,000
	180		3600	900	36,000
	190	60	3800	950	38,000
	200	65	4000	1,000	40,000
	210		4200		42,000
	220	70	4400		44,000
	230	75	4600		46,000
	240				48,000
	250				50,000
	260				52,000
	270				54,000
	280				56,000
					58,000
					60,000

VOLUMETRIC TABLE

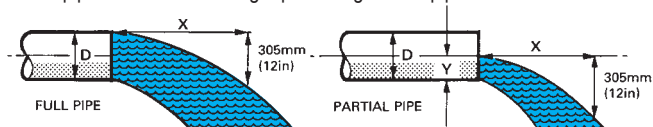


VOLUME DISCHARGE

ESTIMATE THE VOLUME DISCHARGE FROM A LEVEL PIPE

Full Pipe: Measure horizontal distance X for water to fall 12 inches. Consult table for approximate flow.

Partial Pipe: Proceed as above to get approximate flow. Measure height Y of water in pipe. Calculate Y/D to get percentage of full pipe flow.



Approximate Flow Litres/Min (imp. GPM)

DISTANCE 'X' mm (in)	102mm 'D' (4in)	152mm 'D' (6in)	203mm 'D' (8in)	305mm 'D' (12in)
305mm (12in)	568 (125)	1327 (292)	2273 (500)	5296 (1165)
356mm (14in)	682 (150)	1518 (334)	2646 (582)	6055 (1332)
406mm (16in)	755 (166)	1773 (390)	3028 (666)	6819 (1500)
457mm (18in)	873 (192)	2005 (441)	3409 (750)	7955 (1750)
508mm (20in)	982 (216)	2237 (492)	3787 (833)	8728 (1920)
559mm (22in)	1059 (233)	2464 (542)	4164 (916)	9465 (2082)
610mm (24in)	1173 (258)	2650 (583)	4546 (1000)	10592 (2330)
660mm (26in)	1268 (279)	2882 (634)	4914 (1081)	11365 (2500)
711mm (28in)	1364 (300)	3109 (684)	5296 (1165)	12001 (2662)
762mm (30in)	1473 (324)	3337 (734)	5682 (1250)	12865 (2830)
813mm (32in)	1546 (340)	3559 (783)	6060 (1333)	14002 (3080)
864mm (34in)	1664 (366)	3707 (833)	6437 (1416)	14774 (3250)

FRICITION LOSS

SMOOTH BORE PIPE

Losses in m/100m or ft/100ft								
I.G.P.M.	2	3	4	6	8	10	12	m ³ /h
50	10	1.4	0.3					10
75	20	3	0.7					15
100	35	5	1	0.1				20
150		12	2.5	0.35				30
200		18	4.5	0.6				50
300		40	10	1.2	0.4			75
400			18	2.2	0.7			100
500			28	3.5	1.1	0.35		125
600			38	4.5	1.5	0.5		150
700				6.5	2	0.7		175
800				8	2.7	0.8		200
900				10	3.4	1	0.4	225
1000				13	4	1.4	0.5	250
1200				18	6	2	0.8	300
1400				28	8	3	1	350
1600				32	11	4	1.5	400
1800				36	14	4.5	2	450
2000				38	17	5	2.5	500
2500					25	9	4	650
3000					38	12	5	750
4000						21	8	1000
5000						32	13	1250
m ³ /h x 4 g.p.m. approx								










Friction head in feet per 100ft of pipe or metres per 100m of pipe

The above table refers to new pipes. Moderate corrosion may increase the resistance by 25%, severe corrosion by 50% to 100%.

FRICION LOSS

VALVE & PIPE FITTINGS

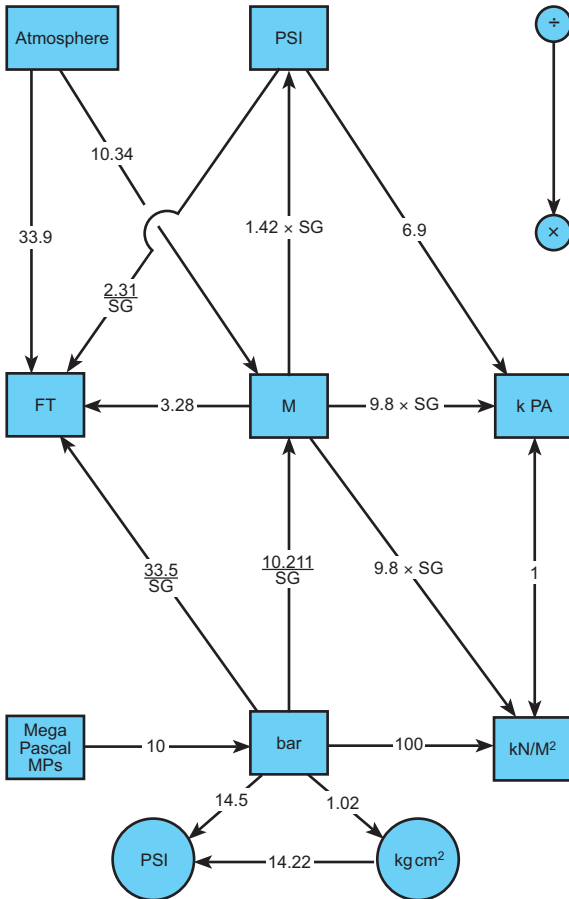
To allow for resistance of bends and other fittings, an 'equivalent length' for each fitting should be added to the actual length of straight pipe. The length in feet can be estimated with sufficient accuracy by multiplying the factors in the following table by the pipe diameter in inches.

Fittings	Equivalent pipe length at -	
	pipe diameter d = 10.50mm	pipe diameter d = 80-400mm
 Sluice valve	15 - 10 x d	10 - 5 x d
 Check valve	200 - 150 x d	150 - 100 x d
 Angle valve	400 - 200 x d	150 - 100 x d
 Globe valve	1000 - 500 x d	500 - 400 x d
 45° Bend	10 x d	10 x d
 90° Bend	30 - 20 x d	15 - 10 x d
 Outlet from tank (square edged)	40 - 30 x d	40 - 30 x d
 Outlet from tank (bevelled)	10 - 5 x d	10 - 5 x d
 T-piece	50 - 40 x d	40 x d

HEAD CONVERSIONS

0	kg/cm ²	Ft.-W.g.	psi	bar	kN/m ²
		10		.5	50
.5		10			
		20	10	1	100
1		30			
		40	20	1.5	150
1.5		50			
		60	30	2	200
2		70			
		80	40	2.5	250
2.5		90			
		100	50	3	300
3		110			
		120	60	3.5	350
3.5		130			
		140	70	4	400
4		150			
		160	80	4.5	450
4.5		170			
		180	90	5	500
5		190			
		200	80	5.5	550
5.5		210			
		220	90	6	600
6					
				6.5	650
6.5					

PRESSURE & HEAD



FLANGE SIZES

Normal Bore	Table	Diameter Flange	P.C.D.	Bolt Dia	Number of Bolts	Flange Thickness Grey Cast Iron
1"	D&E	4.50"	3.25"	.50"	4	.50"
1¼"	D&E	4.75"	3.44"	.50"	4	.625"
1½"	D&E	5.25"	3.88"	.50"	4	.625"
2"	D	6.00"	4.50"	.625"	4	.688"
	E	6.00"	4.50"	.625"	4	.750"
50mm	NP16	165mm	125mm	M16	4	20mm
2½"	D	6.50"	5.00"	.625"	4	.688"
	E	6.50"	5.00"	.625"	4	.750"
3"	D&E	7.25"	5.75"	.625"	4	.750"
80mm	NP10	200 (7.87)	160 (6.30)	M16	8	21 (.83)
	NP16	200 (7.87)	160 (6.30)	M16	8	21 (.83)
4"	D	8.50"	7.00"	.625"	4	.750"
	E	8.50"	7.00"	.625"	8	.875"
100mm	NP10	220 (8.66)	180 (7.09)	M16	8	22 (.87)
	NP16	220 (8.66)	180 (7.09)	M16	8	22 (.87)
5"	D	10.00"	8.25"	.625"	8	.813"
	E	10.00"	8.25"	.625"	8	.875"
125mm	NP16	250mm	210mm	M16	8	22 (.87)
6"	D	11.00"	9.25"	.625"	8	.813"
	E	11.00"	9.25"	.750"	8	.875"
150mm	NP10	285 (11.22)	240 (9.49)	M20	8	23 (.91)
	NP16	285 (11.22)	240 (9.49)	M20	8	23 (.91)
7"	D	12.00"	10.25"	.625"	8	.875"
	E	12.00"	10.25"	.750"	8	1.00"
8"	D	13.25"	11.50"	.675"	8	.875"
	E	13.25"	11.50"	.750"	8	1.00"
200mm	NP10	340 (12.38)	295 (11.61)	M20	8	245 (.96)
	NP16	340 (12.38)	295 (11.61)	M20	12	245 (.96)
9"	D	14.50"	12.75"	.625"	8	.875"
	E	14.50"	12.75"	.750"	12	1.00"
10"	D	16.00"	14.00"	.750"	8	1.00"
	E	16.00"	14.00"	.750"	12	1.00"
250mm	NP10	400 (15.75)	350 (13.78)	M20	12	26 (1.02)
	NP16	400 (15.75)	355 (13.98)	M25	12	26 (1.02)
12"	D	18.00"	16.00"	.750"	12	1.00"
	E	18.00"	1.00"	.875"	12	1.125"
300mm	NP10	455 (17.91)	400 (15.75)	M20	12	27.5 (1.08)
	NP16	455 (17.91)	410 (16.14)	M25	12	27.5 (1.08)

NP10 and NP16 are for cold water pressures of 10 bar and 16 bar and are the current British Standard. They are unnecessarily heavy for most contractors' pumps.

NOTE: Selwood manufactured pumps are supplied with NP16 flanges.

SELECTION REQUIREMENT

Before specifying any particular pump type you will require to know basic facts related to the application. The following points will assist in assembling the information.

1. General

Quantity required. Nature of service – short description of application and environment

2. Capacity

State whether total or per unit

3. Suction Static Head

Distance between water surface and pump centre

4. Suction Friction Head

To calculate this, the following is required:-

- Pipe lengths, diameters and material
- Details of fittings, eg. bends, valves, strainers

5. Pressure

Is water surface at atmospheric pressure; if not, what is the pressure?

6. Discharge Static Head

Distance between water surface and pump centre

7. Discharge Friction Head

To calculate this, the following is required:-

Pipe lengths, diameters, materials and fittings

8. Pressure Head

Is end of pipe discharging to atmospheric pressure; if not, what is the pressure?

9. Total Head Against Pump

= Total Discharge Head + Total Suction Head

10. Nature Of Liquid

- Specific gravity
- Viscosity
- Temperature
- Corrosive and/or abrasive properties
- Nature, percentage and maximum size of any solid content

LIMITS ON SUCTION LIFT

There are a number of factors which effect the suction performance of a pump attributed to the system dimensions and liquid characteristics.

These are briefly listed as follows and care should be taken to collate the relative data in order that the technical department have all the pertinent information.

- **Pressure on liquid-free surface to be drawn into the pump.**
The reservoir from which the liquid is drawn may not always be at atmospheric pressure – it could be at an elevated pressure or under vacuum in a closed vessel
- **Vapour Pressure**
Hydro-carbon mixtures or liquids at elevated temperatures and pressures which create surface evaporation, will reduce suction performance
- **Liquid Density**
Increasing density reduces suction performance
- **Viscosity and Friction Losses**
These also reduce suction performance
- **Flooded Suction/Suction Lift**
Flooded suction will assist the pump's suction performance, conversely, suction lift will subtract

The above data is necessary to calculate the *Nett Positive Suction Head* available in a system (NPSHa).

The pump itself imposes a restriction on the suction lift, by virtue of its design and the liquid flow characteristics through the pump. This is referred to as the *Nett Positive Suction Head* required (NPSHr).

For a pump to sustain a throughput without cavitation, NPSHa must be greater than or equal to the NPSHr.

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