MAGNAPRO™ vortex model



INSTALLATION

- ✓ Below ground
- ✓ New build
- ✓ Retro-fit

APPLICATION

- ✓ Domestic
- ✓ Commercial

ACCESS COVER

- Pedestrian (200 & 360 Models)
- 5 Tonne Solid, Locking (900 & 2000 Models)

POWER SUPPLY

- Single Phase (200, 360, 900 & 2000 Models)
- Three Phase (360, 900 & 2000 Models)

CONTROL EQUIPMENT

Control Panel (360, 900 & 2000 Models)

NO. OF PUMPS

- Single Pump (200, 360, 900 & 2000 Models)
- Twin Pump (360, 900 & 2000 Models)

PUMP CONFIGURATION

- Free Standing (200 & 360 Model)
- Guide Rails (900 & 2000 Models)

INTERNAL PIPEWORK

High Pressure Plastic

The MagnaPro is a fully automatic pumping station specifically designed for pumping foul, storm or surface water when gravity drainage is not possible and/or economical to install.

The system is suitable for installing either at the initial building stage or retro fitting to existing buildings and can accept waste from a basement, entire house/s or similar.

The system consists of a polyethylene tank, locking access cover, internal pipework and fittings, control panel (360, 900 & 2000 only), float switches (360, 900 & 2000 only), guide rail/s (900 & 2000 only) with single or twin (360, 900 & 2000 only) vortex submersible pump/s.

The MagnaPro is easy to install as inlets can be positioned to your requirements (inlet information to be supplied at time of order).

MODELS

Magna200Pro (Single)

150-200 litre storage capacity (depending on inlet level).

Magna360Pro (Single & Twin)

200-360 litre storage capacity (depending on inlet level).

Magna900Pro (Single & Twin)

540-900 litre storage capacity (depending on inlet level).

Magna2000Pro (Single & Twin)

1300-2000 litre storage capacity (depending on inlet level).

ACCESSORIES





















TECHNICAL SPECIFICATIONS

Model	200Pro	360Pro	900Pro	2000Pro
Single phase				
Power Supply	240V AC	240V AC	240V AC	240V AC
Rated Current	7.3A	7.3A	7.2A	7.2A
Motor Rating	1100W	1100W	1500W	1500W
Frequency	50Hz	50Hz	50Hz	50Hz
Revolutions Per Minute	2800rpm	2800rpm	2900rpm	2900rpm
Max. Vertical Output	11m	11m	10m	10m
Max. Horizontal Output	100m	100m	100m	100m
Max. Flow Rate	600l/m	600l/m	600l/m	600l/m
Three phase				
Power Supply	415V AC	415V AC	415V AC	415V AC
Rated Current	2.8A	2.8A	2.7A	2.7A
Motor Rating	1100W	1100W	1500W	1500W
Frequency	50Hz	50Hz	50Hz	50Hz
Revolutions Per Minute	2800rpm	2800rpm	2900rpm	2900rpm
Max. Vertical Output	11m	11m	10m	10m
Max. Horizontal Output	100m	100m	100m	100m
Max. Flow Rate	600l/m	600I/m	600l/m	600l/m
Common data				
Max. Liquid Temp.	<40°C	<40°C	<40°C	<40°C
Discharge Size	63mm OD	63mm 0D	90mm OD	90mm OD
Cable Length	10m	10m	10m	10m
Weight (Single pump)	115kg	125kg	170kg	210kg
Weight (Twin pump)	135kg	145kg	190kg	230kg
Colour	White	White	White	White

TANK DIMENSIONS

Model	Diameter	Height
Magna200Pro	750mm	1000mm
Magna360Pro	850mm	1250mm
Magna900Pro	1100mm	1500mm
Magna2000Pro	1350mm	2000mm

CONTROL PANEL DIMENSIONS

Model	Height	Width	Depth
Single pump	400mm	300mm	190mm
Twin pump	400mm	300mm	190mm

PUMP CURVE



INSTALLATION GUIDELINES

 ${\bf IMPORTANT.\ These\ instructions\ are\ for\ guidance\ only.\ Please\ refer\ to\ the\ full\ Installation\ and\ Operating\ Guidelines\ when\ specifying\ /\ installing\ the\ product.}$

Siting the product

The MagnaPro is designed to be installed below ground level and so the prevailing ground conditions must be considered prior to locating the unit. Where possible, installation of a pumping station in a roadway should be avoided due to the need for periodic maintenance of the pump(s) contained therein. If the location is adjacent to a roadway, the installation method should take into account the imposed loads likely to be transmitted to the tank by traffic etc.

The MagnaPro should be positioned in a sump with sufficient dimensions to allow for a concrete surround.

Inlet connection

The MagnaPro comes complete with a 110mm rubber connector located on the side of the tank that will accept 110mm uPVC soil waste pipe. The waste pipe needs to be run with sufficient gradient to allow the waste to gravity drain into the unit and should be pushed firmly into the 110mm rubber connector so as to form a watertight seal around the incoming pipe.

NOTE Inlets can be positioned to your requirements but must be specified at time of order.

Discharge connection

The connection of the discharge line is via the supplied compression adaptor. This connector is designed to accept black MDPE / HDPE pipework of appropriate outer diameter.

Electrical connection

A qualified person in accordance with the Institute Of Electrical Engineers Regulations should connect the unit to the appropriate mains supply taking into account all the electrical information provided. **IMPORTANT** All pump systems must be used with an appropriate motor rated protection device.

Maintenance

We recommend that the unit be inspected every three months. The inside of the MagnaPro should be inspected to ensure the floats are clean and free of any build up of materials that may inhibit the operation of the float switch. Also the moving parts of the pump(s) should be checked to ensure that they are moving freely. Hose down the interior of the tank if necessary to remove any build up of solid materials and the bottom of the tank should be checked to make sure there is no debris or materials that could enter the pump(s) and cause irreparable damage.

NOTE It is recommended that a service agreement be taken out with a technically qualified company.

Health & safety

As with all site work, the danger of working with water and electricity can pose a severe threat to health if obvious and fundamental precautions are not taken. Therefore if you are in any doubt regarding the installation, please contact us.

All site work must be undertaken by qualified personnel only.

These notes are for guidance only and it is for the installer to ensure the installation is in accordance with all structural and regulatory requirements.

The company reserves the right to make any alterations in the interest of technical development.

Visit www.edincare.com for full technical drawings





For additional information and prices visit

www.edincare.com

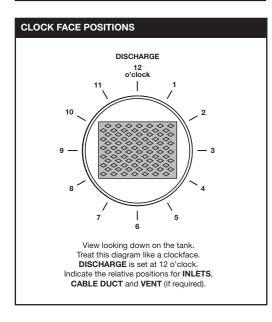


TECHNICAL SPECIFICATIONS **Power Supply** 415v Rated Current 3.4a **Motor Rating** 1.1kw 50hz Frequency **Revolutions per Minute** 2900 Max. Vertical Output 11m Max. Horizontal Output 200m Max. Flow Rate 10 l/s Max. Liquid Temperature 40 deg.C Discharge Size 80mm/90mm OD MDPE Cable Length Weight 170kg Colour White

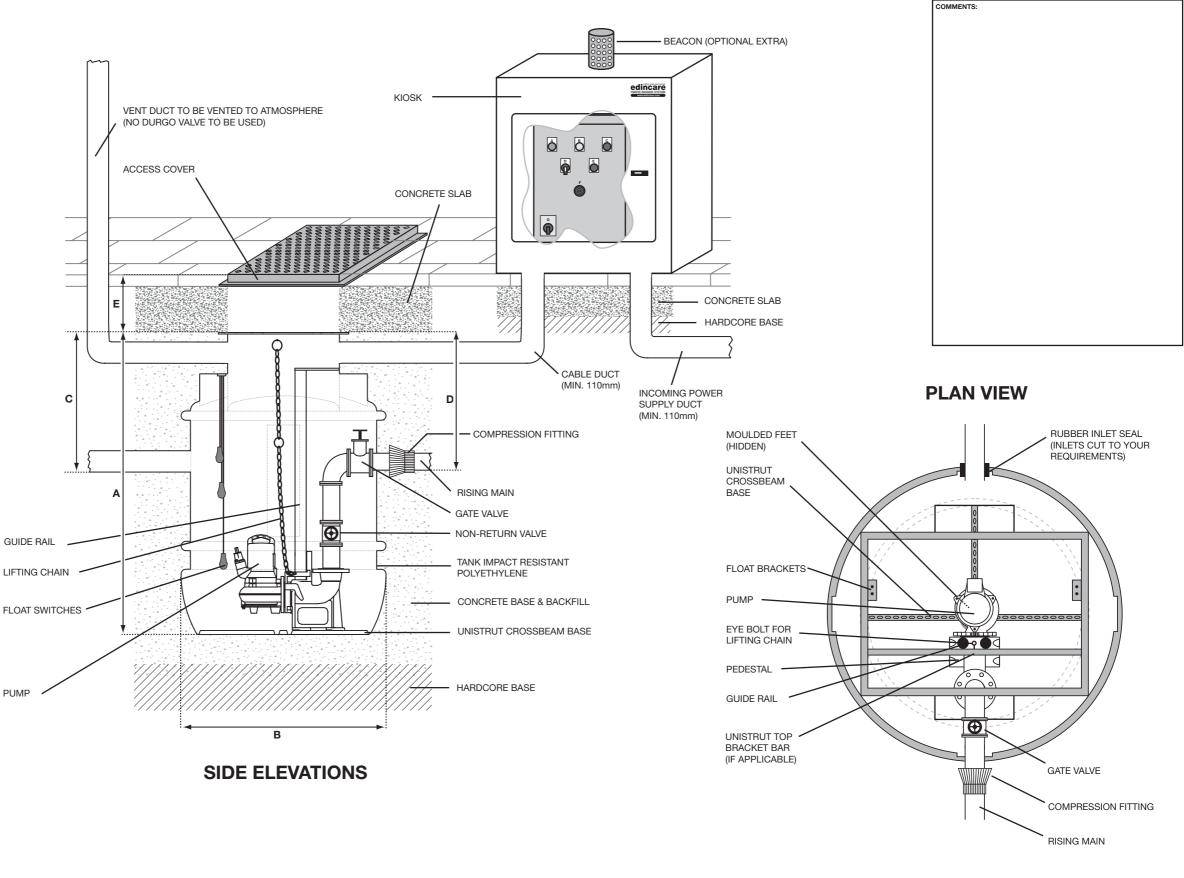
ACCESS COVER (CLEAR OPENING)				
LENGTH (mm) WIDTH (mm) TYPE				
600	750	5 Tonne		

KIOSK (SINGLE DOOR)				
LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		

FABRICATION SPECIFICATIONS					
ITEM	INDEX	DEPTH (mm)	DIAMETER (mm)	CLOCK FACE POSITION	
Tank depth	Α	1500	$>\!\!<$	\times	
Tank diameter	В	\times	1100	$>\!\!<$	
Inlet	C1		110		
Inlet	C2				
Inlet	СЗ				
Inlet	C4				
Discharge	D	450	80	12	
Slab (inc. cover)	E				
Cable Duct	$>\!\!<$	250	110		
Vent	$>\!\!<$	250	110		



MagnaPro900 – Technical Drawing



PLEASE NOTE THAT THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH THE INSTALLATION & OPERATING GUIDELINES. DRAWING NOT TO SCALE.

CUSTOMER NAME	PRODUCT NAME Magna Pro 900	(Vortex) 3ph	
PROJECT NAME	DRAWING VERSION		
PROJECT ADDRESS	DATE		
	DRAWN BY SH	CHECKED BY	l

Edincare Pumped Drainage Systems Unit 8, Heron Business Park, Eastman Way, Hemel Hempstead,

Hertfordshire, HP2 7FW

Fax: 01442 211553, Email: info@edincare.com, Web: www.edincare.com

Tel: 01442 211554,



SHOULD YOU REQUIRE ANY TECHNICAL ASSISTANCE

PLEASE CONTACT OUR HELPDESK ON 01442 211554

OR EMAIL AFTERSALES@EDINCARE.COM



PACKAGED PUMP STATION – COMMISSIONING CHECKLIST

(Page 1 of 2)

CUSTOMER / SITE DE	CUSTOMER / SITE DETAILS						
Contact name		Site contact					
Company		Site name					
Address		Site address					
Postcode		Postcode					
Contact number		Contact number					
Invoice number		Your reference					

PRODUCT DETAILS			
Product Description	Pump(s)	Power Supply	Equipment No.

SERV	ICE C	HARGES		
Yes	No	Service	Price	Other
		On Site Guidance Service A technical representative will attend site directly after delivery and talk through the installation of the product, specifically in regards to the installation of the tank, control equipment and rising main.		Number of Attendees: Site Contact Name: Tel No: Mobile No: Email:
		Commissioning Charge Our engineers to attend site and commission equipment as detailed below.		Order Number:
		Handover Service A technical representative will attend site after commissioning and conduct an onsite demonstration of the equipment. Furthermore full operating and servicing documentation will be supplied.		Number of Attendees: Site Contact Name: Tel No: Mobile No: Email:
	•	Total Price		

SCOPE OF WORK

The quoted price is based on others having completed the following work prior to our engineer's attending site:

- Installation of pump chamber including backfill in accordance with the installation and operating guidelines.
- 2. Connect the Inlet, Discharge and Vent pipework.
- 3. Mount the control panel at the desired position.
- Install a 110mm cable duct between the pumping chamber and control panel position and line with drawstrings.
- Install a concrete plinth for the kiosk housing (if applicable).
- 6. Connect the control panel to the mains supply.

Subject to above and the completion of the attached form, Edincare Pumped Drainage System's commissioning will include:

- Attach lifting chains / shackles to pump(s) and lower into pumping chamber.
- 2. Install float switches and set to appropriate levels.
- 3. Wire pump power cables and float switches back to control panel.
- 4. Commission, subject to water and power being available.

Our works excludes provision and connection of the mains feed power supply and we exclude all works of a civil nature

The quoted price is based on the assumption that the works, as agreed, can be completed within one normal working day. If, for reasons beyond our control, the works cannot be completed, a return visit can be booked, subject to an additional days labour.

TERMS AND CONDITIONS

- Edincare Pumped Drainage Systems Conditions of Sale apply.
- All prices and rates are exclusive of VAT.
- 3. Water and power must be available on day of our engineer's visit.
- Pumping chamber must be fully dewatered at time of our engineer's visit.
- 5. Pumping chamber must be free of all builders' rubble and debris at time of our engineer's visit.
- Our engineer expects good access to the pumping station areas for himself and his vehicle, and expects to work continuously and uninterrupted.
- Should our engineer be unable to complete works, for reasons beyond our control, the above quoted cost shall be paid in full as if the work had been completed as originally envisaged.

Please complete both pages of this form and fax the completed document on 01442 211553. The date of commissioning cannot be confirmed until the servicing department has received both pages.

Edincare Pumped Drainage Systems Unit 8, Heron Business Park, Eastman Way, Hemel Hempstead, Hertfordshire, HP2 7FW Tel: 01442 211554 Fax: 01442 211553 Email: info@edincare.com Web: www.edincare.com





PACKAGED PUMP STATION - COMMISSIONING CHECKLIST

				. ,	(Page 2 of 2)
Item	Complete the following questions and give	e detail	s wnere	Petails	
Has the chamber been set on a	a concrete base and backfilled with our installation and operating	103	140	Details	
Have the connections for the Ir	nlet, Discharge and Vent been made?				
Has the control panel been mo	ounted and connected to the mains?				
Please confirm the electrical s	upply?	N/A	N/A	Delete as applicable: Single P	hase Three Phase
Please specify type and size o	f breaker used?	N/A	N/A	Туре:	Size:
Please confirm that the power engineer's visit?	supply will be ON at the time of our				
Please confirm water will be avduring the commissioning?	vailable to the pumping chamber				
Has the pumping chamber bee debris and builders rubble?	en fully dewatered and free of all				
Please confirm if the plinth for been installed (if applicable)?	the Kiosk has set and the kiosk has				
Has the 110mm bore cable due control panel and pumping cha	<u> </u>				
chamber) to control panel in m	e from pump(s) (from bottom of eters through the 110mm ducting. ne standard with 10 meters. Should be an additional cost)	N/A	N/A	Distance (m):	
Please advise details on parkir if this has been booked?	ng within the vicinity of the site and				
from commencing work promp	s which may delay our engineer's otly and working continuously and , security checks, health and safety				
SUNDRIES CHECKLIST		ΑC	DITIO	NAL INFORMATION	
Please tick the boxes below to	confirm that they are onsite.				
Pump(s)	Counter weights (if applicable)				
Floats	Lifting chain & shackles				
Control panel	Junction box (if applicable)				
Kiosk (if applicable)					
	ms reserve the right to amend the quota that our engineers attend site, a separa				
scheduled appointment three wor	Il not be confirmed until the servicing de king days notice must be given. Any car ent is allocated. Edincare Conditions of	ncellati	ons afte	er this time is subject to a 30% ca	
DECLARATION					
	as been completed and that we wish to been provided and we accept the condi			•	
Name (PRINT)]	Posit	ion	
Signature			On b	ehalf of	
			Date		/
COMMISSIONING DATE					
COMMISSIONING DATE					
Requested date for commissi	oning to take place (please give 10 da	ays adv	/ance i	notice):	/

Edincare Pumped Drainage Systems will confirm date as soon as possible. Please fax the completed document on 01442 211553.



CONDITIONS OF SALE

1. General

These conditions of Sale ("the Conditions") supplied by Omni Pump International Ltd T/A Edincare Pumped Drainage Systems ("the Company") to a purchaser ("the Buyer") shall be incorporated into each contract ("the Contract") made by the Company for the sale of the Company's goods ("the Goods"). These Conditions apply to all transactions, including deliveries and services, conducted by the Company, as well as to their execution. These Conditions together with invoice details supersede any terms or conditions proposed by the Buyer and may not be varied except with the written consent of a Director of the Company. In the case of a written consent by a Director of the Company to a variation or deviation from one or more of these Conditions of Sale, the other terms and conditions shall remain fully operative.

2. Exclusion of Liability
The Company excludes all liability for any consequential or indirect loss suffered by the Buyer whether this loss arises from breach of a duty in contract or tort or in any other way (including loss arising from the Company's negligence). Non-exhaustive illustrations of consequential or indirect loss include: (a) Loss of profit

- (b) Loss of contracts
- (c) Damage to property of the Buyer or anyone else
- (d) Personal injury to the Buyer or anyone else (when the injury is not caused by the Company's negligence)

3. Indemnities

The Buyer shall indemnify the Company against all actions, claims, demands, penalties and costs by third parties in tort or for infringements of patents or registered designs or otherwise arising in connection with the Goods or with their delivery or unloading or with work done by the Company on the Goods in accordance with the Buyer's specifications.

4. Consumer Protection Act 1987

Where the Company incurs any liability, whether by court proceedings or by a bona fide out of court settlement as a result of a claim against the Company under part 1 of the Consumer Protection Act 1987 in respect of an alleged defect in the Goods, then the Buyer shall indemnify the Company against the liability.

5. Deliveries

(a) Delivery shall take place when the Goods are delivered at the address specified in the Buyer's order or in the absence of such address at the Buyer's premises except when the Buyer collects or arranges collection of the Goods from the Company's premises, or nominates a carrier for the Goods, delivery shall take place when the Goods are loaded on to the collection carrier1s vehicle>

(b) Delivery dates mentioned in any quotation, order or other document are approximate only and not of any contractual effect. Late delivery or performance does not entitle the Buyer to do any of the following: reject late goods, terminate the contract or withhold payment of any part of the contract price. (c) The Company reserves the right to make delivery by installments and to tender

a separate invoice in respect of each installment. Each delivery shall be considered a separate transaction and the failure of any one delivery shall not affect the performance of the remainder of the Contract or liability for the costs of the Goods delivered.

6. Inspection and Claims

(a) The Buyer shall upon delivery or, on collection by the Buyer if appropriate, inspect the Goods wherever it is possible to do so. If inspection is impossible, the Buyer must write on the delivery (or collection) note "Goods not examined".

(b) The Buyer shall notify the Company in writing of any short delivery, defects or damage reasonably discoverable on careful inspection within 7 days of the Buyer's receipt of the Goods. In the absence of such notification, the Company excludes all liability in respect of short deliveries, defects or damage.

(a) Prices quoted are in GBP Sterling and exclusive of VAT (where applicable) and do not include any charge for handling or delivery of the Goods.

(b) All prices guoted or printed are subject, to alteration without notice by the Company, and all Goods will be invoiced at the prices ruling at the date of despatch.

(c) Where orders are received for quantities or shipments that are priced at less than the minimum charge of the Company. then the order will be priced at the standard charge.

(d) All tenders, quotations, offers and estimates made by the Company are given without obligation.

8. Payment

(a) Where accounts have been approved for credit, payment terms are nett monthly.

(b) The Company reserves the right (in the Company's absolute discretion) to vary or withdraw without notice any credit arrangements made.

(c) The Company reserves the right to charge interest at the rate of 2% per month on all overdue accounts without prejudice to its right of recovery of the Goods.

Interest is deemed to accrue on a day to day basis from and including the date when payment was due.

(d) Without prejudice to any other rights or remedies of the Company, any default by the Buyer in making payment according to the payment terms, shall entitle the Company to suspend deliveries under the Contract or any other contract so long as the default continues and to treat the Contract as repudiated by the Buyer and determined if the Buyer has not, within 7 days of receiving written notice from the Company, paid all sums due to the Company.

(e) If the Buyer shall have a receiving order made against

them, or enter into any composition or arrangement with their creditors, or if being an incorporated company shall have a receiver appointed, or shall pass a resolution for winding up or a court shall make an order to that effect, or if there shall be any breach by the Buyer of any terms or conditions hereof, the Company may, without prejudice to its other rights or remedies, defer or cancel any further deliveries.

(f) The Company reserves the right to demand security for payment at any time before continuing with or delivering any

(g) All payments are to be made in GBP Sterling.

9. Title in the Goods

Risk in the Goods shall pass to the Buyer when the Goods are delivered. Notwithstanding risk in the Goods passing to the Buyer on delivery, title in the Goods shall not pass to the Buyer until:

Full payment being received by the Company for the Goods and no other amounts then being outstanding from the Buyer to the Company in respect of other Goods supplied by the

Before title has passed to the Buyer and, without prejudice to any of its other rights, the Company shall have the unqualified right to recover or resell the Goods or any of them and may enter upon the Buyer's premises or any premises where the Company reasonably believes the Goods to be situated, by its servants or agents for that purpose. Should the Buyer alter the Goods by subjecting them to any manufacturing process or incorporating them into another product or mixing them in any way, then the resulting product ("Altered Goods") will pass into the ownership of the Company until payment due under all Contracts between the Company and the Buyer has been

10. Until Title to the Goods Passes

(a) The Goods will be held by the Buyer as bailee and the Goods shall be kept separate from the Buyer's other Goods and shall be clearly identifiable as belonging to the Company. (b) In the event of the sale or hire of the Goods or Altered Goods by the Buyer, the Buyer shall hold the proceeds of such sale or hire as trustee for the Company.

(c) In the event of the sale or hire of the Goods or Altered Goods by the Buyer in the ordinary course of its business, the Buyer shall assign its rights to recover the selling price or hire charges from the third parties concerned to the Company, if required to do so in writing by the Company.

11. The Buyer's power of sale shall cease forthwith:

(a) Upon written notice from the Company; or (b) If a receiver or manager is appointed over any of the assets or undertakings of the Buyer; or (c) If a petition is presented for the appointment of an

administrator or a winding up petition is presented against the

(d) If the Buyer goes into voluntary liquidation or calls a meeting of or makes any arrangement or composition with its creditors;

(e) If the Buyer commits any act of bankruptcy or becomes unable to meet its debts within the meaning of Section 123 of the Insolvency Act 1986

Whereupon the Buyer shall continue to hold the Goods as bailee for return to the Company and the Company shall have the unqualified right to enter upon any premises where the Company reasonably believes the Goods or Altered Goods to be situated to take possession of the Goods or Altered Goods or such of them as remain.

12. Quality

Subject to clauses 5 and 6 concerning delivery, inspection and claims, the Buyer acknowledges that he/she has inspected the Goods and satisfied himself/herself from the inspection that: (a)The Goods are of merchantable quality and (b) The Goods are fit for his/her purpose in reliance on his/her

own skill or judgment, and that he/she has not relied for this purpose upon the skill or judgment of the Company unless specifically agreed otherwise in writing between the Buyer and the Company.

13. Description

All weights, measurements, dimensions, drawings, capacities, specifications and other particulars contained in photographs, catalogues, price lists or advertising material are approximate and any other information or technical assistance given by the Company is given in good faith and is for general guidance only. No information supplied by the Company constitutes a warranty, guarantee or recommendation of the suitability of the Goods for any purpose whatsoever.

If Goods are supplied in accordance with the Buyer's specifications, the Buyer shall be solely responsible for the specifications. The Buyer acknowledges the Goods are fit for the purpose in reliance on his/her own skill and judgment and that he/she has not relied for this purpose upon the skill or judgment of the Company and the Buyer will indemnify the Company against all claims by the customers of the Buyer and Sub-Buyer in this regard.

14. Returns

(a) Goods cannot be accepted for return without the prior consent of the Company and compliance with the Company's returns procedures. A 30% handling charge will be made on all returns (Company errors and omissions excepted). Carriage charges will be extra.

(b) No special orders and/or bespoke products can be accepted for return.
(c) All returns must be strictly in accordance with the

Companies 'Returns Policy'

15. Special Orders and Bespoke Products

Definition of Special Orders & Bespoke items
(a) If the products are not listed in the Edincare catalogue or other Edincare literature.

(b) If due to the functionality of a system non-standard components are used to offer a tailored solution. (c) If the product is manufactured specifically to customer requirements i.e. custom size tank, non stock pumps/control equipment, inlet size/positions etc.

(d) If the product has been modified with specific details as agreed with the customer.

16. Ordering Special Orders and Bespoke Products

(a) Additional written authorisation is required when special orders or bespoke items are purchased. (b) Once an order is placed for a special or bespoke product,

customers are liable for all costs and associated charges if the order is cancelled prior to delivery.

17. Guarantee

If within the guarantee period of a product any defect is discovered in respect of workmanship, construction or material, the Company will make good the defect or replace the defective part at its expense inside normal working hours at the Company's premises providing, written notice is given immediately the defect is discovered and that, if required by the Company, the part or complete unit is returned to the Company's premises carriage paid. Spares or repaired parts are delivered ex works exclusive of fitting. The guarantee does not apply to defects caused by incorrect installation, abnormal conditions of working, accidents, misuse or neglects. The Company's responsibility is in all cases limited to the cost of making good the defect or replacing the defective part at the Company's premises inside normal working hours. The Company excludes all liability for any consequential or other damage or losses which may occur.

All contracts to which these conditions apply shall be governed by and construed in accordance with English Law.