

VLC5501

Immobiliser user manual

Attention!!!

Installation of this security product is additional protection for your vehicle, but it does not protect your vehicle from all possible thefts.

User manual

Version 2.1

Table of contents

PRODUCT WARRANTY AND REGISTRATION:	4
SYSTEM COMPONENTS:	4
Keypad module:	4
Passive arming:	4
Replacement battery:	5
Lost or damaged Keypad Override Disc:	5
STARTING YOUR VEHICLE:	6
Using the keypad PIN code:	6
Using the Keypad Override Disc:	6
PIN CODES:	7
Code definitions:	7
Master PIN code:	7
User PIN code:	7
Override PIN code:	7
Additional users chart:	7
CHANGING PIN CODES:	8
Re-setting the Master PIN code from the Factory default '0000' PIN code:	8
Changing the Master PIN code:	8
Adding an additional user PIN code:	9
Change the user PIN code:	9
Deleting a user PIN code:	9
Forgotten passwords:	10
PIN code card:	10
Enter the Overriding PIN code:	10
SYSTEM STATUS INDICATION:	11
ORDERING REPLACEMENT PARTS:	11
FAULT FINDING CHART:	12
TECHNICAL PARAMETRES:	13
Keypad module:	13
Blocking modules:	13
Keypad Override Disc:	13
Additional relays:	13
CONDITIONS OF SALE:	14

Product warranty and registration:

Warranty of this product is for 12 months. If you register this product on line, Vapormatic will give a further 12 months warranty free, giving 24 months in total.

To register this product please go to: www.vapormatic.com/vehiclesecurity.

System components:

The Vapormatic security system is a unique, modular wireless protection system. This provides the highest security level to protect your vehicle from unauthorized use. With the use of a keypad PIN code or wireless Keypad Override Disc, it is very easy to identify the driver and allow the vehicle engine to start.

The Vapormatic security system consists of the following elements:

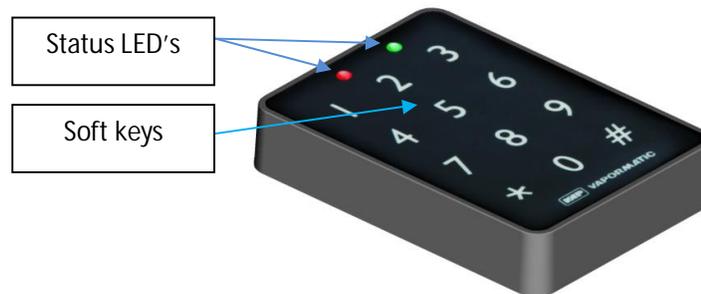
- Keypad module
- Keypad Override Disc
- Two immobiliser blocking modules
- Plastic PIN code card, (For use when the Master PIN code has been lost or forgotten)

Keypad module:

Using the keypad module, the driver can enter his own PIN code followed by the # button, to provide authorisation for the two immobiliser blocker modules to disarm.

There are two LED status lights, twelve soft key buttons and an internal buzzer. By turning the ignition on, the backlit keypad will become live, and the red LED will illuminate. By entering any of the stored authorisation codes correctly followed by the # button, the red LED will extinguish and the green LED will illuminate, allowing the user to start the engine.

After a short period, the keypad backlight will dissipate leaving just the green LED status light on.



Passive arming:

If the ignition is switched off for less than 4 minutes (approx), there is no requirement to re-enter an authorisation code, this is for your convenience. If the ignition has been switched off for more than 4 minutes (approx), the system will re-arm itself, thus requiring an authorisation code or the supplied Keypad Override Disc.

Keypad Override Disc:

Attention!!! The Keypad Override Disc is designed as a backup device in the case of a keypad malfunction or an intruder damaging it trying to start your vehicle. For this reason **DO NOT** leave the vehicle unattended whilst the Keypad Override Disc is within a 5 metre range of the vehicle. I.E. do not leave this disc on the vehicle or in, the vehicles cabin whilst it is unattended.

The Keypad Override Disc is a wireless, battery powered identification tag, which informs the security system about the presence of the operator, this allows the vehicle to start without using the keypad.

Note: This disc device operates within a 5 metre range, it transmits a signal every 20 seconds. Therefore once the ignition is switched on, it may take up to 20 seconds for the Green keypad LED to illuminate and for the engine to be started.

The Keypad Override Disc consists of following parts:

1. Enclosure (part1)
2. Enclosure (part2)
3. Electronic board
4. Battery



Replacement battery:

The battery supplied will last for approximately one year, if the Keypad Override Disc stops working or works intermittently, **please replace the battery first.**

To replace the battery: Separate the enclosures marked 1 & 2, slide the battery out of the unit and replace with a new fully charged CR2430 (Li-Mn 3V) battery.



Red LED

Note: Please ensure the positive plus sign on the battery matches the positive plus sign on the battery holder.

With the battery correctly inserted the red LED on the printed circuit board will flash once. Carefully place the combined circuit board and battery into enclosure 1, and snap enclosure 2 into place.

Lost or damaged Keypad Override Disc:

If the disc is lost or damaged, a replacement can be ordered. The security device serial number is required as each transponder is uniquely matched to each security system, Vapormatic will then send a replacement that will only work for the serial number supplied.

Starting your vehicle:

Using the keypad PIN code:

To disarm the security system, the correct PIN code must be entered.

To enter the PIN code, proceed as follows:

1. Turn ON the vehicle's ignition, the keypad backlight and red LED will illuminate.
2. Enter your PIN code, the keypad will give a confirmation bleep each time a button is pressed.
3. Confirm entered PIN code by pushing the # button.
4. If successful the keypad will double beep, the red LED will turn OFF, and the green LED will turn ON.
5. The security system is now disarmed – The keypad backlight will go out and the green conformation LED will remain on.
6. If the incorrect code has been entered, the keypad will emit one long beep. In this instance, switch off the ignition and go back to step 1.

Note: Once the keypad has accepted a correct code entry, it will stay in this state and will remain so until the ignition is switched OFF.

The PIN code must be entered each time the ignition is switched on, except when the ignition has been switched OFF for less than 4 minutes approx. (read section **passive arming**).

Using the Keypad Override Disc:

In situations where it is not preferable to use the keypad PIN code, it is possible to disarm the security system using Keypad Override Disc.

1. With the Keypad Override Disc within a 5 metre range of the vehicle.
2. Turn ON the ignition and wait until a double beep will sound, the keypad red LED will turn OFF, and the green LED will turn ON. (This could take up to 20 seconds)
3. The system is disarmed, now you can start the engine.

Attention!!! Do not leave the Keypad Override Disc inside the vehicles cabin or in a 5 metre range, whilst the vehicle is not attended. This device overrides your security, and should therefore be kept at home in a safe place or on your person at all times.

Note!!!

The signal from the Keypad Override Disc is transmitted once per 20 seconds. If you are in an area with a lot of digital transmissions, the communication between disc and other security system's components may take longer.

PIN codes:

PIN codes: The Vapormatic keypad can store up to 5 User codes and one Master code, the Master code is used to add and delete your five user codes. Therefore a secondary user should be given one of the five possible User codes, which they can not modify add or delete other codes with. Only the Master code can do this, in the event of a Master code being lost or forgotten, please refer to the PIN code card also supplied with this system.

All PIN codes can be 4 to 8 digits long; the PIN code entry is confirmed with the # key.

Example: Factory default is '0000' then press the # to confirm, you will hear two short beeps and the green LED light will illuminate. If the incorrect code has been entered the keypad will emit one long beep, the keypad will then lock out. In this instance, please switch the ignition off and then back on again, this will reset the keypad ready for a correct code to be entered.

Attention!?" Factory default code should be changed at time of installation, please refer to master code setting later in this manual.

Code definitions:

Master PIN code: The Vapormatic keypad comes supplied with a factory default PIN code of '0000'. It is **important** to change this to a new 4 to 8 digit unique Master PIN code that only the owner should know. The Master PIN code is used to add and delete up to 5 additional user codes.

User PIN code: With the use of the Master PIN code, an additional five access codes can be added for non owner driver authorisation. Any of these can be deleted or changed at any time. A user code does not have access to add or delete any authorisation codes.

Override PIN code: In the event of the Master PIN code being lost or forgotten, the unique 8 digit Override code should be used to reset the security system. After the Override code has been entered, the security system will delete all PIN codes from memory, and the Master PIN code will be reset to the factory default code of '0000'.

Note: The Override code can be found on the PIN code card, by scratching off protection layer (see **PIN code card**).

Additional users chart:

If more than one user has access to this vehicle, additional PIN codes can be stored. A total of five additional user PIN codes (except master PIN code) can be stored in the system's memory (see table)

Keypad memory slot	User	Customer codes
0	Master pin code	
1	PIN code for User1	
2	PIN code for User2	
3	PIN code for User3	
4	PIN code for User4	
5	PIN code for User5	

Changing PIN codes:

Re-setting the Master PIN code from the Factory default '0000' PIN code:

In order to change the Factory default PIN code, proceed as follows:

1. Turn ON the vehicle's ignition, the keypad backlight and red LED will illuminate.
2. Enter the Factory PIN code '0000', and then press # to confirm it. If the factory PIN code has been entered correctly, the system will give two short beeps, and the green LED light illuminates.
3. Within 5 seconds, press and hold # and * buttons together, the keypad emits two short beeps.
4. Enter the new PIN code (4 to 8 digits) and press # to confirm it.
5. Repeat the new PIN code and press # to confirm it.
6. Enter '0' and press # to confirm it. (**'0' is the default memory location for the master code**)

Note!!!

If you make a mistake whilst entering the PIN code, turn the ignition OFF and start again from step1.

If all of the above steps have been followed correctly, the keypad will emit two short beeps to confirm the new Master PIN code, turn off then back on the ignition to test new Master code.

From this moment on, this code is known as the Master PIN code. Only the Master PIN code has master access level, it can be used to manage and disarm the security system.

Changing the Master PIN code:

If it is necessary to change the Master PIN code, follow the instructions for '*Changing the Factory default PIN code*' above, substituting the factory '0000' PIN for the current Master PIN code.

If the Master PIN code has been lost or forgotten, then follow the instructions for '*Enter the Overriding PIN code*' further on in this section.

Adding an additional user PIN code:

Up to five additional PIN codes can be stored in the Vapormatic keypad. In order to add a new user PIN code, proceed as follows:

1. Turn the ignition ON
2. Enter existing Master PIN code, and then press # to confirm it. If the Master PIN code has been entered correctly, the keypad will emit two short beeps.
3. Within 5 seconds, press and hold # and * buttons together, the keypad emits two short beeps.
4. Enter the new user PIN code (4 to 8 digits), then press # to confirm it.
5. Repeat the new user PIN code, and then press # to confirm it.
6. Enter the keypad memory location number 1 to 5 for this new PIN code, (i.e. **this can be number 1 or 2 or 3 or 4 or 5 see PIN code location chart below**) and then press # to confirm it. If all steps are completed correctly, the keypad will give two short beeps.

From this moment on, the new user PIN code is stored in the memory. This process can be repeated adding a further 4 more user pin codes.

Keypad memory location	User	Customer codes
0	Master pin code	
1	PIN code for User1	
2	PIN code for User2	
3	PIN code for User3	
4	PIN code for User4	
5	PIN code for User5	

Note: The location of each user code should be recorded in the above table, stored codes can be overwritten. 1 to 5 in the box above is the memory location for each stored user code.

Change the user PIN code:

In order to change user PIN code, proceed as follows:

1. Turn the ignition ON
2. Enter existing Master PIN code, and then press # to confirm it. If the Master PIN code has been entered correctly, the keypad will emit two short beeps.
3. Within 5 seconds, press and hold # and * buttons together, the keypad emits two short beeps.
4. Enter the new user PIN code (4 to 8 digits), then press # to confirm it.
5. Repeat the new user PIN code, and then press # to confirm it.
6. Enter the number of the default memory (see Additional users chart) for the PIN code you want to change, then press # to confirm it. If all steps are completed correctly, the system will give two short beeps. *****From this moment the user PIN code is changed*****

Deleting a user PIN code:

In order to delete a user PIN code, proceed as follows:

1. Turn the ignition ON
2. Enter existing Master PIN code, and then press # to confirm it. If the Master PIN code has been entered correctly, the keypad will emit two short beeps.
3. Within 5 seconds, press and hold # and * buttons together, the keypad emits two short beeps.
4. Enter 0000, and then press # to confirm it.
5. Enter 0000 again, and then press # to confirm it.
6. Enter the number of the default memory (see **Additional users**) for PIN code you want to delete, and then press # to confirm it. If the all steps have been done correctly, the system will give two short beeps. *****From this moment the user PIN code has been deleted*****

Forgotten passwords:

If the Master code and or any of the user codes are forgotten, the keypad memory can be reset back to factory default. This will delete all stored user codes and set the Master code back to '0000'.

Please follow the instructions below in the PIN code card section.

PIN code card:

This card contains the serial number of your system and a unique 8 digit override PIN code.

Serial number: This is required if you need to order a replacement Keypad or Keypad Override Disc.

8 digit Override PIN code: This is required if the Maser code or user codes have been forgotten.

If entered will restore the keypad memory back to factory settings. This means that all User codes will be deleted and the Master code will be reset to '0000'.

If for any reason the keypad Master PIN code has been lost or forgotten, the eight digit master override code can be found on the PIN code card, by scratching off the protection layer.

The serial number will be required if ordering a replacement Keypad or Keypad Override Disc.



Enter the Overriding PIN code:

Note: The overriding PIN code will be found on the PIN code card supplied. (See code definitions).

Warning!!!

*After the Overriding code has been entered, the security system will delete all stored PIN codes from memory, and the factory PIN code '0000' will be re-set (see **Factory PIN code**).*

To enter the Overriding PIN code:

1. Turn ON the vehicle's ignition, wait until the red LED on the keypad illuminates and you hear one short beep sound.
2. Press and hold the button * for 5 seconds, the system will give you one short beep.
3. Enter your 8 digit Overriding PIN code. Press # **to confirm**
4. If the correct PIN code has been entered, you will hear 6 short beeps, the red LED will stay on. The security system is now set to factory default settings.
5. Turn off and then back on the ignition and enter '0000' to activate the system. A new Master PIN code should now be set (see *Setting the Master PIN code from the Factory default '0000' PIN code from previous section*).

System status indication:

It is possible to detect the system status, using the keypad LED's (see table):

Operation	Red LED	Green LED	Backlight
Ignition switched OFF	OFF	OFF	OFF
Ignition switched ON, PIN code not entered (system armed)	ON	OFF	ON for 30 seconds, then OFF
Ignition switched ON, Master PIN code entered (system disarmed)	OFF	ON	ON for 5 seconds, then OFF
Ignition switched ON, user PIN code entered (system disarmed)	OFF	ON	OFF

Also there are sound notifications used to show the security system status (see table):

Operation	Sound signal
System ready (after ignition switched ON)	1 short beep
Pressing any soft key	1 short beep
Confirming correct PIN code	2 short beeps
Confirming incorrect PIN code	1 long beep
Confirming correct Overriding PIN code	6 short beeps
Confirming incorrect Overriding PIN code	1 long beep
Low battery warning for Keypad Override Disc	4 short beeps

Ordering replacement parts:

Vapormatic can supply replacement keypads and Keypad Override disc's the part numbers are listed below.

PLEASE NOTE: These products have to be coded to the serial number of your security system. Please quote the serial number listed on the PIN code card as described earlier, please allow up to fourteen working days when ordering.

VLC5504 - Keypad
VLC5507 - Keypad Override Disc

Fault finding chart:

Keypad Override disc not working	Is the Keypad Override Disc with in a 5 metre range.
	Remove battery and wait five minutes, re-insert battery and check red LED on printed circuit board flashes once (refer to the Keypad Override Disc Replacement Battery section)
	If no red LED, order new Keypad Override Disc Disassemble Keypad Override Disc and replace battery
Keypad not accepting Master code	Is the correct code being entered
	Is the code being confirmed by pressing the # button
	Reset keypad memory back to factory settings using the PIN code card. (refer to PIN Code Card section)
Can not change Master code	Is the current Master code been entered correctly
	Has the * and # buttons been pressed together within 5 seconds
	Is the code being confirmed by pressing the # button
	Has the new Master code been entered correctly <u>twice</u> and confirmed
Not able to add a User code	Is the correct memory location of '0' being used and confirmed by pressing the # button
	Has the * and # buttons been pressed together within 5 seconds
	Is the Master code being entered first to confirm authority
	Has the new User code been entered correctly <u>twice</u> and confirmed
Not able to delete a User code	Is the 1 to 5 memory location being entered and confirmed by pressing the # button
	Is the Master code being entered first to confirm authority
	Is the 1 to 5 memory location being entered and confirmed by pressing the # button
Keypad Red LED not working	Reset keypad memory back to factory reset. This will delete all data and set the Master code to '0000'. The Master code will need to be changed, and all User codes re-entered
	Is the ignition switched on
	Is the Keypad Override Disc with in a 5 metre range Refer to installation manual to diagnose wiring fault

Technical parametres:

Parameter name	Value
Systems power supply	DC, 8-16V
Current consumption:	
Ignition OFF	0 mA
Ignition ON	200 mA
System operating temperature	-40.....+85°C

Keypad module:

Parameter name	Value
Operating frequency	2,4GHz
Operating range	~5 metres
Operating voltage	8-16V
Current consumption	120mA
Operating temperature	-40.....+85°C
Dimensions	72x52x13mm

Blocking modules:

Parameter name	Value
Operating frequency	2,4GHz
Operating range	~5 metres
Operating voltage	8-16V
Current consumption	100mA
Maximal load to blocking circuit	15A (12 Amps continuous)
Operating temperature	-40.....+85°C
Dimensions	69x29x9mm

Keypad Override Disc:

Parameter name	Value
Operating frequency	2,4GHz
Operating range	~5 metres
Battery type	CR2430
Battery life	12 months
Operating temperature	-30.....+85°C
Dimensions	49x41x6 mm

Additional relays:

Parameter name	Value
Operating voltage	12V
Maximal current draw	30A

Conditions of sale:

This product is subject to an extended warranty – please see www.vapormatic.com/vehiclesecurity.

Please note: The terms and conditions of sale currently in effect are always those as shown on our website at www.Vapormatic.com.

1. General

(i) All orders are accepted by the Company from the Buyer on the following terms, conditions and exceptions and no other terms, conditions or warranties shall apply unless agreed to in writing by the Company.

(ii) References to Incoterms are references to the edition of Incoterms published by the International Chamber of Commerce in force at the date when the contract is made and expressions used in any contract shall have the meanings ascribed to them by Incoterms as modified by these Conditions of Sale.

2. Prices and Payment

(i) All prices, UK and Export are subject to adjustment without notice. The contract price shall be the price current at the date of despatch of the goods.

(ii) In the case of U.K. sales payment shall be effected by cash, cheque or credit transfer by the end of the month following the date of invoice. In the case of Export sales, payment shall be made at such time and in such manner as expressed in the contract and the Company reserves the right at any time to request payment by Confirmed Irrevocable Letter of Credit confirmed by an approved bank in the U.K.

(iii) Any bank or other charges on negotiable instruments in respect of Export payments are payable by the customer.

(iv) The Company reserves the right to charge interest on overdue payments at 15% per annum from the date they first become overdue. Interest is at the latest charged from the normal due date + 120 days for UK customers or the due date + 150 for export customers.

3. Licences, Taxes and Other Charges

(i) The placing of an order with the Company is deemed to constitute a warranty and representation by the Buyer that every applicable licence (import or otherwise), foreign exchange control

authorisation or any other authorities that may be required in connection with the goods supplied have been or will be duly obtained by and at the expense of the Buyer.

(ii) Unless otherwise agreed in writing the contract price does not include Value Added Tax ("VAT") or any other tax or levy on the supply or importation of the goods which shall be charged extra. Insofar as the Buyer is situated in another member state of the European Community, with effect from 1st January 1993 and until completion of the Internal Market of the European Community, VAT will be added to the contract price automatically unless the Buyer provides its VAT registration details and all other appropriate information to the Company.

(iii) The Basic Tax Point for VAT (where applicable) is the invoice date.

4. Carriage, Risk and Property

(i) Details of carriage terms are given in the Company's current price list.

(ii) In the case of U.K. sales, unless otherwise agreed, risk of loss or damage to the goods shall pass to the Buyer when the goods are handed to the carrier for delivery to the Buyer. Subject thereto, where goods are to be carried at the cost of the Company, the Company will bear the risk of loss or damage in transit provided that the Company shall have received written notification of such loss or damage within five days of the date of despatch.

(iii) In the case of Export sales, unless otherwise agreed, Incoterms shall apply and risk of loss or damage to the goods shall pass to the Buyer in accordance with the terms of the shipping documents. The Company does not normally insure the goods during transit abroad.

(iv) Where the goods are to be collected by the Buyer, the Company shall be entitled to treat the contract as repudiated, and re-sell the goods, should the Buyer fail to collect the goods within 14 days of notification by the Company that they are ready for despatch.

(v) (a) Notwithstanding the passing of risk, the Company retains ownership of the goods the legal and equitable title in which shall not pass to the Buyer until the Company has received payment of the price of all of the goods (whether or not the goods are delivered in instalments and some have been paid for by the Buyer) and until such time the Buyer shall hold the goods in a fiduciary capacity for the Company and in particular the Buyer:

(1) shall insure the delivered goods against any loss or damage with an insurance office of repute;

(2) shall store the delivered goods separately or in some other way ensure that they are readily identifiable as the property of the Company;

(3) shall deliver the goods to the Company forthwith on demand and if the Buyer fails to do so the representatives of the Company shall be entitled to enter upon the Buyer's premises where the delivered goods are or are thought by the Company to be stored for the purpose of repossessing them (including without limitation removing or detaching them from the New Goods as defined in Clause 4(v)(d) and subsequently reselling them;

(4) shall keep and retain the delivered goods free from any charge lien or other encumbrance thereon.

(b) Upon any resale of any of the goods by the Company pursuant to Clause 4(v)(a)(3) if the proceeds of sale exceed the amount of all sums due to the Company from the Buyer the Company shall pay the excess to the Buyer having deducted the cost and expense of the repossession and resale of the goods and any damages which the Company has suffered as a result of any breach of the contract by the Buyer;

(c) Until the Company has received full payment of all the sums due to the Company from the Buyer provided always that the Buyer continues to trade and is not insolvent nor enters into liquidation whether compulsorily or voluntarily nor becomes subject to an administration order nor has a receiver appointed over all or any part of its assets nor compounds with nor convenes a meeting of its creditors nor takes or suffers any similar action in consequence of a debt the Buyer shall be entitled to offer for sale and sell the goods in the ordinary course of business as principal for its own account and not as agent for the Company. Where any of the goods is sold to a third party before title to it has passed to the Buyer, that sale will constitute a sale by the Buyer of the Company's property.

(d) If the Buyer incorporates the goods within other equipment or products ("the New Goods") provided that the goods remain a readily identifiable and removable part of the New Goods the provisions of Clauses 4(v)(a) and 4(v)(b) shall apply.

(e) The provisions of this Clause 4(v) shall survive the termination of the contract for whatever reason and in particular but without limitation termination of the contract by the Company by the acceptance of any repudiation of the contract by the Buyer.

5. Delay and Force Majeure

(i) Whilst every effort will be made to comply with any quoted dates given for dispatch or delivery, time shall not be of the essence and the Company shall not be liable for any loss or damage caused by

delay or failure by the Company in obtaining goods from the Company's own suppliers, or any loss or damage caused by strikes, lockouts, trade disputes, transport delays, shortages of material, breakdowns, fire, accidents and/or any causes whatsoever beyond the company's control. Such delay shall not constitute a breach or repudiation of the contract.

(ii) In the event of performance of the contract being frustrated or prevented by reason of war, civil commotion or the operation of any statute, order, regulation or promulgation made by any statutory or duly constituted authority whether in the UK or elsewhere, the Buyer shall accept and pay for all goods delivered, work executed and expenses incurred in connection with the contract up to the date of such event, and the Company shall from such date be under no further liability under the contract.

6. Specifications

(i) The specifications of the goods shall be those stated in the Company's current catalogue.

(ii) Whilst specifications are considered to be correct at the date of printing the Company reserves the right to change specifications of the goods and their packing and presentation without prior notification having regard to the Company's continuing programme of research and development.

(iii) Original equipment part numbers are quoted for reference purpose only and are not intended to infer that equivalent replacements are used as original equipment.

7. Warranties

(i) Subject to the conditions set out below and Clause 4(ii), the Company warrants that the goods will correspond to their specification and will be free from defects in materials and workmanship for a period of 12 months from the date of delivery, or in the case of goods which have a shorter working life as determined by the Company, three months from the date of delivery ("The Warranty Period").

(ii) If the Company receives written notice during the Warranty Period from the Buyer of any breach of the above warranty then the Company shall at its own expense and within a reasonable time after receiving such notice repair, or at its option replace the goods or otherwise remedy such defect. The Buyer will, at the request of the Company, return such defective goods to the Company carriage paid.

(iii) The Company shall be under no liability under the above warranty:

(a) in respect of any defect in the goods arising from any drawing, design or specification supplied by the Buyer;

(b) in respect of any defect arising from fair wear and tear, wilful damage, negligence of the Buyer, abnormal working conditions, failure to follow the Company's instructions (whether oral or in writing), misuse or alteration or repair of the goods without the Buyer's approval, or improper storage.

(c) where the goods are transported to the Buyer at the Buyer's risk and the defect occurred during transit;

(d) in respect of non-Vapormatic branded goods. In that case the buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer to the Company.

(iv) The Company shall have no liability under the above warranty other than under Clause 7(ii) above. If the Company fails to comply with such obligations its liability for such failure shall be limited to the contract price of the goods.

(v) The express terms of these Conditions of Sale are in lieu of all warranties, conditions, terms, undertakings, and obligations implied by statute, common law, custom, trade usage, course or dealing or otherwise, all of which are hereby excluded to the fullest extent permitted by law. The United Nations Convention on Contracts for the International Sale of Goods (Vienna, 1980) shall not apply to orders for goods.

8. Liability

Except in respect of injury to or death of any person caused by the Company's negligence, or in respect of the Company's liability under the Consumer Protection Act 1987 for any injury to or death of any person or loss of or damage to property intended for private use caused by a defect in the goods the Company shall not be liable to the Buyer for any loss or damage which arises out of or in connection with the supply of the goods or their use or resale by the Buyer, except as expressly provided in these Conditions of Sale.

9. Construction:

These Conditions of Sale shall be subject to and shall be construed in accordance with English law and the High Court of Justice in London shall have non-exclusive jurisdiction over any dispute which may arise hereunder unless the parties agree otherwise in writing.