



Dynamic Pressure Redistribution Cushions  
**User Manual**





# USER MANUAL: Pure Air 17<sup>2</sup> & 20<sup>2</sup>

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## STATEMENTS AND SYMBOLS



Refer to manual



Warning to highlight potential hazards that, if disregarded, could lead to injury or death.



Caution to highlight potential hazards that if disregarded could lead to equipment damage or failure.

**NB:** Tips or information users should be aware of

## IMPORTANT NOTICE



Before operating this medical equipment, it is important to read this manual and understand the operating instructions and safety precautions. If you have any questions regarding the use of this equipment please contact your supplier.

## INTRODUCTION



Thank you for choosing the Pure Air 17<sup>2</sup> or 20<sup>2</sup> pressure redistribution cushion. This manual should be read carefully before using the cushion as it contains important safety and maintenance information to ensure long lasting and reliable service.

## CONTACT INFORMATION

For any service, warranty, sales or customer service information on this product please contact your supplier or if in doubt contact Select Medical Ltd. at the following address:

Select Medical Ltd, Unit 10 Philips Rd, Whitebirk Ind Estate, Blackburn, BB1 5NA.

**Customer Service:** +44 (0)1254 685538    **Sales:** +44 (0)1254 668899

**Email:** [info@selectmedical.co.uk](mailto:info@selectmedical.co.uk)

**[www.selectmedical.co.uk](http://www.selectmedical.co.uk)**

## PRODUCT OVERVIEW

### Environment

Your dynamic cushion system is intended for use in the following environments:

- A care environment where medical supervision and monitoring are provided (e.g. nursing homes, care home, rehabilitation facilities etc).
- A domestic environment where the cushion is used to alleviate or compensate for an injury or disability.

### Intended Use

Both cushion systems are suitable for patients up to **very high risk** of developing a pressure ulcer. Pure Air 20<sup>2</sup> has been specifically designed for heavier patients.

Pure Air 17<sup>2</sup> and 20<sup>2</sup> provide regular periods of pressure reduction to vulnerable tissue areas, aiding blood and lymphatic flow which is vital to maintaining healthy tissue. The cushions are designed to be placed on a conventional chair.

For assistance in setting up, using or maintaining your dynamic cushion system, or to report unexpected operation refer to the contact details found on page 2.

### Features

4" depth

One in two cell-cycle design giving optimum therapy

Multi-stretch waterproof, vapour permeable cover

Machine washable cover up to 95°C

Visual low pressure alert

Pressure adjustment for optimum comfort

External, easy replacement pump filters

	Pure Air 17 <sup>2</sup>	Pure Air 20 <sup>2</sup>
Minimum Weight Limit	No minimum	No minimum
Maximum Weight Limit	114kg (18 stone)	190kg (30 stone)

## SAFETY

### General Safety



- The cushion system & control unit must be installed and used in accordance with the information provided in this manual.
- The cushion system is typically not suitable for children. If it is to be used by a child ensure a risk assessment has been undertaken.
- Before using the system ensure that the mains lead is free from damage and is positioned so as not to cause an obstruction or trip hazard.
- Exposure of the control unit to any liquid while it is plugged in could cause a severe electrical hazard.
- Use care when handling or transporting the control unit. Dropping or other sudden impacts may result in damage to the unit.
- Do not open the control unit or attempt to repair or service the unit. Repairs and servicing should always be undertaken by suitably trained personnel.
- If the control unit is not functioning properly, or has been damaged, unplug the unit and take it out of service immediately.
- Do not use the system near a heat source or naked flame.
- Do not use liquids near the control unit if plugged in.
- Do not place any objects, such as blankets, on or over the control unit.
- Do not use the control unit near flammable gas or in oxygen rich environments as this poses a fire risk or risk of explosion.
- Always assess the risk of intentional or unintentional tampering of the control unit.

### Risk Assessment

It is the responsibility of the carer/care provider to carry out the necessary risk assessment to ensure the safety of the patient. This should be carried out before using the cushion system.

## SYMBOL DEFINITIONS: CONTROL UNIT & MATTRESS

### Control Unit

The following symbols are found on the control unit:



Warning: beware of potential hazard



Refer to manual: failure to do so could introduce a hazard



#### **Type BF Applied Part**

Applied Part: The parts of the device that come into physical contact with the user/occupant in order for it to carry out its intended function.

Type BF: Applied parts which are electrically isolated from earth and other parts of the medical equipment - Complying with specific requirements for protection against electric shock to IEC 60601-1



#### **W.E.E.E Label**

(Waste Electrical and Electronic Equipment)



#### **Class II electrical device**

The user/occupant is protected by at least two layers of insulation between the current carrying parts (e.g. mains cable) – If damage is noticed to the control unit or mains cable assembly turn off at the mains supply and contact your provider or Select Medical Ltd. immediately.

**IP21**

Protected from touch by fingers and objects greater than 12 millimetres. Protected from condensation.

## Cushion

The following symbols are found on the cushion:



Disinfect by wiping the surface using a hypochlorite solution diluted 1000ppm



Machine wash up to 95°C



Tumble dry on a low setting



Do not use harsh abrasives or Phenol cleaners



Do not iron



Ensure system is dry before storing



Do not place heavy objects on surface of cover other than the patient



Do not use when damp, ensure surface is dry before use



Do not fold.



Do not use sharp objects



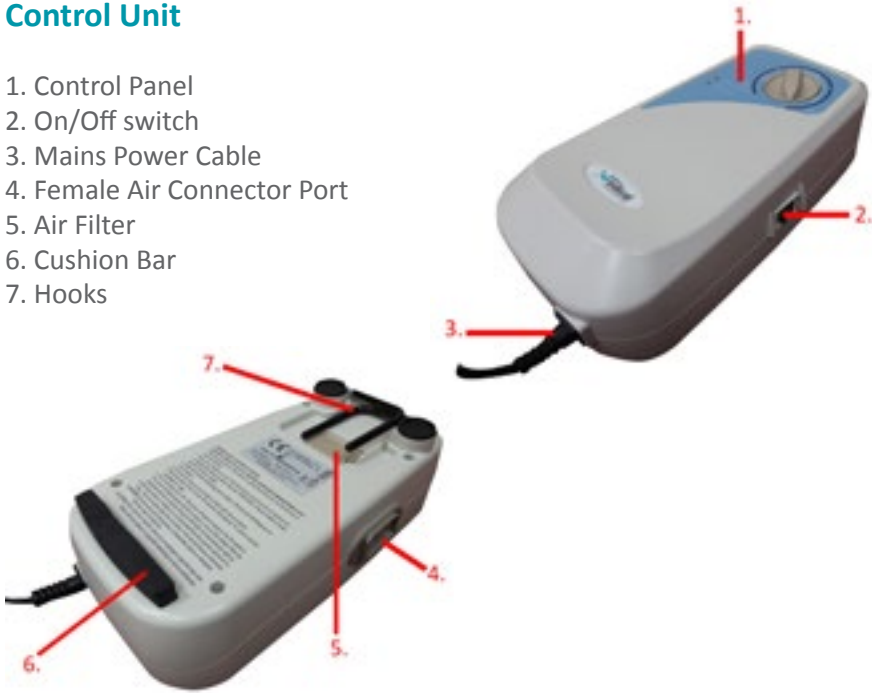
Only use in conjunction with appropriate medical advice



## CONTROL UNIT/MATTRESS PARTS

### Control Unit

1. Control Panel
2. On/Off switch
3. Mains Power Cable
4. Female Air Connector Port
5. Air Filter
6. Cushion Bar
7. Hooks



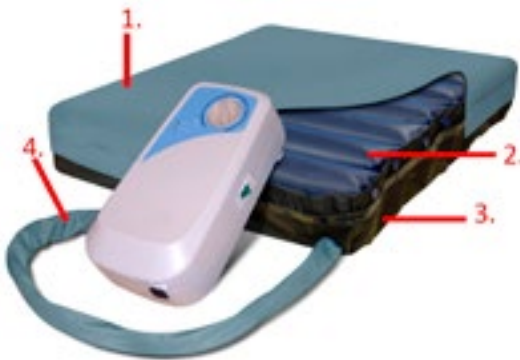
## Cushion - Pure Air 17<sup>2</sup>

1. Top Cover
2. Air Cells
3. Foam base
4. Male Air Connector



## Cushion - Pure Air 20<sup>2</sup>

1. Top Cover
2. Air Cells
3. Base Cover
4. Male Air Connector



## INSTALLATION



Before installing the cushion system please read the warning and caution notes carefully. These highlight risk areas to ensure patient safety.



- Ensure the cushion is of the correct type for the patient.
- Ensure the plug is accessible at all times so the cushion can be disconnected from the mains supply quickly, if required.
- Ensure the mains cable is plugged into an appropriate power source at all times.
- Ensure the mains cable is not taut.
- Ensure that the mains cable does not become compressed, trapped or damaged by other equipment.
- Replace any damaged cable immediately as these cables can create a risk of electrocution and/or fire.
- A CE marked extension cable must only be used when it is not possible to reach a wall socket with the equipment mains cable.
- If an extension cable is used never overload it by plugging in appliances that together will exceed the maximum current rating stated for the extension cable.
- Do not use block adaptors.



- Ensure the mains supply is compatible with the control unit (see page 21 for electrical specification)
- Avoid placing the cushion system in direct sunlight as this could damage the cushion cover.

1. Carefully open the packaging.
2. Although unlikely, please check the product for any signs of damage. Do not use if damaged and contact your provider or Select Medical Ltd (see page 2).
3. Place the cushion on top of the seat/chair, with the top cover facing upwards.
4. Using the hooks on the back of the control unit, hang the unit over the chair frame or lay the unit on the floor, under the chair, with the front control panel facing upwards.



- If you are placing the control unit on the floor it is advisable to place the unit on a firm surface.

5. Attach the male air connector on the cushion to the female air connector port on the control unit/pump, ensuring the air hose is not kinked or trapped between parts of the chair frame.
6. Plug the mains cable into a suitable mains supply and switch on the control unit. At this stage both the mains power and low pressure indicators will illuminate.
7. The cushion will start to inflate.
8. Once fully inflated the low pressure indicator will switch off and the normal pressure indicator will illuminate.



- Ensure the mains cable is positioned so as not to cause a trip hazard.

# OPERATION

## Control Panel

### D30 Control Unit

1. Pressure Adjustment Dial
2. Low Pressure Indicator

3. Normal Pressure Indicator



#### 1. Pressure Adjustment Dial

Turn the dial to set the system for optimum performance.

#### 2. Low Pressure Indicator

A visible indicator (orange) warns that the pressure is below an acceptable level.

#### 3. Normal Pressure Indicator

A visible indicator (green) identifies that the pressure has reached the preset level.

## Cushion Operation

1. Turn on the power on the control unit. The pump starts to inflate the mattress to the pressure selected on the dial.
2. The low pressure indicator (orange) will illuminate as inflation commences.
3. Once optimum pressure is reached the 'normal pressure' indicator will come on and the 'low pressure' indicator will turn off.
4. Adjust the 'pressure/comfort control' dial to provide a comfortable pressure level for the patient. Pressure range: 30-80mmHg

**NB:** If the 'low pressure' indicator (audible alarm) will not go off, refer to troubleshooting on page 20.

5. Using clinical judgement, increase or decrease the pressure levels using the dial to suit the patient's comfort levels.

## Using Incontinence Products with the Cushion

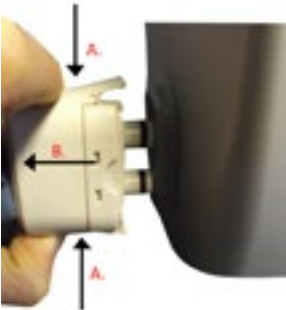
Incontinence products, such as pads, can be used with the system, however this may compromise the effectiveness of the alternating pressure distribution.



- If incontinence products are being used it is important to carry out a risk assessment and regular patient skin checks.

## Transporting the Cushion & Power Cuts

If the cushion is disconnected from the power supply so it can be moved, or in the event of a mains power failure, carry out the following procedure to maintain cushion inflation:



1. Disconnect the male connector from the power unit by squeezing the two tabs (A) and pulling away from the control unit (B).

2. Seal using the cap marked “Transport” which for safety is attached to the male connector.

**NB:** Complete the action quickly to limit air loss.



3. Switch off the control unit.

4. Disconnect from the power supply.

5. The cushion can now be moved.



- The cushion will remain inflated for up to 24 hours - return the system to the mains supply as soon as possible.
- Whilst unplugged alternating mode will not be operational and pressure relief will not be provided.

# CLEANING & DECONTAMINATION

## Cleaning

Cleaning is required regularly between patients to prevent cross infection. It is therefore important to clean and decontaminate the control unit and cushion following these procedures.

### Control Unit



- Disconnect the mains cable from the power socket before attempting to clean the control unit.
- Do not immerse or soak the control unit.
- Do not spray any cleaning solution directly on the surface of the control unit.



- If any of the cleaning/washing instructions are not followed the product warranty will be invalidated.
- Do not use phenol based cleaning solutions, solvents, neat bleach or abrasive products to clean the casing as this may cause damage.

1. Check for external damage – do not use if damage is found.
2. Place the pump on a work surface and using a clean cloth wipe the outside of the case with a prepared sodium hypochlorite solution (1000ppm).
3. The control unit should be cleaned by starting with the cleanest parts and systematically moving to the dirtiest parts. Extra care should be taken around areas where excess dirt or dust may gather.
4. Change the cloth if it becomes dirty.
5. Once clean, wipe down with a new clean cloth moistened with clean water to remove detergent residue.
6. Dry off with a paper towel. Always allow the surfaces to dry thoroughly before putting back into use.



## Cushion

**N.B:** Before attempting to clean the cushion the top cover should be checked for physical signs of damage that may lead to strike-through (ingress of fluid through cover). Staining to the underside of the top cover is a sign of strike-through.



- Do not use the cover if strike-through or damage is found – risk of cross infection. Replace with a new top cover.
- Do not use solvents or alcohol-based cleansers e.g. Phenicol, Hibiscrub, Clearsol, Stericol or Hycoline as these will destroy the cushion materials.
- Do not autoclave.



- Frequent or prolonged exposure to higher concentration disinfectant solutions may prematurely age the fabric cover of the cushion.

## General Cleaning:

1. Wipe down with a clean cloth moistened with a mild detergent and diluted in warm water (40°C).
2. Rinse with cold clean water and a clean cloth and allow to fully dry before use.

## Decontamination

1. Unzip the top cover from the cushion.
2. The top cover can be machine washed up to 95°C and tumble dried on a cool setting.
3. Unsnap the air cells from the cushion base on both sides.
4. Carefully clean with (1000ppm) prepared solution of sodium hypochlorite and allow to dry completely.
5. Make sure to disconnect all the air cells and spray the cleaning solution on all sides, including the connecting tubes and hoses.
6. Re-assemble the cushion and lay it out flat.
7. Ensure the cushion is completely dry before either storing or using for another patient.

## STORAGE

1. Detach the control unit from the cushion.
2. Ensure there is no air trapped in the cells.
3. Store in a sealed polythene bag to protect from dirt, debris, fluids etc. with a suitable identification tag.
4. Store the control unit in a separate, sealed polythene bag to protect from dirt, debris, fluids etc. with a suitable identification tag.



- The cushion system must be decontaminated prior to any storage to avoid risk of cross contamination.



- Do not fold, crease or stack cushions.
- Do not stack control units.
- Do not store whilst inflated.

## **Environmental Conditions**

The following conditions should be followed when storing the cushion system:

- Ambient temperature: -25°C to +70°C
- Humidity: < 93% max, non-condensing

## TROUBLESHOOTING



- Do not open the control unit - risk of electrocution
- If mains plug, cable or outer casing is visibly damaged turn off at the mains and contact your approved service engineer.

Problem	Actions
Power Failure	<ol style="list-style-type: none"> <li>1. Turn off the control unit to silence the alarm and unplug from the mains supply.</li> <li>2. Check the mains socket is working - plug in a device that is known to work.</li> <li>3. Plug the control unit back into the wall socket.</li> <li>4. Turn on the control unit. If control unit still fails to operate:</li> <li>5. Turn off the control unit at the wall &amp; replace plug fuse.</li> <li>6. Turn on the control unit. If control unit still fails to operate, turn off at the mains and contact your approved service provider.</li> </ol>
Incomplete inflation/low pressure	<ol style="list-style-type: none"> <li>1. Ensure the cushion air connector is properly connected to the control unit, is not constricted in any way and has no kinks.</li> <li>2. Turn the unit off and then on again to clear the indicator. If the 'low pressure' indicator continues to illuminate:</li> <li>3. Remove the top cover and ensure there is no air leakage within the cushion – cells, tubing and connectors.</li> <li>5. Turn the unit off and then on again to clear the indicator. If a low pressure indicator is still evident turn off at the mains and contact your approved service provider</li> </ol>
Alternating mode failure	<ol style="list-style-type: none"> <li>1. Turn off the control unit.</li> <li>2. Disconnect the male air connector to reduce cell pressure.</li> <li>3. Reconnect air connector.</li> <li>4. Turn on the control unit.</li> <li>5. If alternating mode is still inoperable turn off at the mains and contact your approved service provider.</li> </ol>
Patient is bottoming out.	<ol style="list-style-type: none"> <li>1. Ensure the patient is suited to the rating of the cushion.</li> <li>2. Ensure the patient is centrally positioned on the cushion.</li> <li>3. Increase the pressure setting – Refer to 'Cushion Operation' pg 13.</li> <li>4. If the patient is still bottoming out refer to 'incomplete inflation' above.</li> </ol>

## MAINTENANCE



- Always disconnect the control unit from the mains power supply prior to performing any maintenance procedures (when viable).
- No modification of this equipment is allowed.
- The cushion system should be vacated by the patient before any maintenance or inspection takes place.
- Only Select Medical approved components are to be used - if in doubt contact Select Medical Ltd or your local distributor.



- Only authorised service personnel or Select Medical service engineers should carry out repairs or service activities. Failure to do so may result in the product warranty becoming void.
- The cushion system should be serviced once a year, as a minimum.

### General Maintenance

Select Medical recommend that frequent visual and operational inspections are undertaken. Clean the air filter, found at the back of the control unit, once a month with mild detergent. If there are any signs of damage, or the system is not performing as it should, withdraw it from service until the system has been repaired and is fit for use again.

### Yearly Maintenance

- Check the air filter is in good condition and replace or clean as required.
- Check that all electrical functions operate correctly on the control unit.
- Check that all audible and visual indicators work appropriately (when plugged in and unplugged from mains supply).
- Check that the cushion reaches the required pressures.
- Check the cover for tears, punctures, abrasion marks and split seams.
- Check for signs of strike-through (fluid ingress) to the underside of the cover.
- Check that all piping and cells within the cushion are in good condition and that there is no kinking evident.

- Check the control unit housing is not cracked or damaged, if damaged the control unit must be removed from operation immediately.
- Check that the mains cable and plug are in good condition, if either is damaged it must be replaced with a complete assembly, the plug must never be re-wired.

## Disposing of Parts

When the electrical system has come to the end of its useful life, contact your provider or Select Medical Ltd. (see pg 2) to arrange for collection, alternatively follow local recycling and W.E.E.E. (Waste Electrical and Electronic Equipment) policies.




- The control unit should not be disposed of in general municipal waste. Some of the electrical components could be harmful to the environment and where viable the components can be recovered and reused/recycled.

The metal and plastic components used in both the cushion and control unit are also to be separated and disposed of following local recycling policy as these can also be recovered and reused/recycled.



- The cushion system is to be decontaminated before disposal to avoid risk of cross contamination.

## SPECIFICATION

Classification:	Electrical shock protection: Class II, Type BF Applied Part: Cushion Liquid ingress protection: IP21 Not AP or APG equipment*
Supply Rating: Fuse Rating: Mains Plug:	230V, 50Hz, 12W Mains Plug – 5A D30 Control Unit - T1A, 250VAC (internal) Type G/BS1363
Cushion Dimensions Maximum Patient Weight: No. of cells: Alternating Therapy: Cycle Time: Pressure Range:	Pure Air 17: 432 x 432 x 100mm Pure Air 20: 508 x 508 x 100mm Pure Air 17: 114kg (18 stone) Pure Air 20: 190kg (30 stone) Pure Air 17: 6 + foam base Pure Air 20: 7 AB pattern 12 minutes 30-80mmHg, $\pm 2$ mmHg
Control Unit Dimensions: Control Unit Weight:	(H) 260mm x (W) 140mm x (D) 100mm 2.4kg
Cover Material: Cell Material: Base Material:	Polyurethane coated multi-stretch nylon PU Pure Air 20 only: Nylon/PU
Transport and Storage Conditions: Operational Conditions: Atmospheric Pressure: Operating Altitude: Pollution: UV: Noise level:	Ambient Temp: -25°C to +70°C Humidity: < 93%, non-condensing Ambient Temp: +5°C to +40°C Humidity 15% - 93%, non-condensing 700hPa to 1060hPa $\leq 2000$ m Degree 2 Intended for indoor use only <40dB(A)
Warranty:	1 year
Safety Standards:	IEC 60601-1: 2005 IEC 60601-1-2:2007 IEC 60601-1-11:2010  The control unit is tested and CE marked in line with Medical Device Directive 93/42/EEC
* Not suitable for use in the presence of flammable anaesthetic mixtures with air, oxygen or nitrous oxide.	

## ELECTROMAGNETIC COMPATIBILITY

The control unit has been designed to meet the EMC requirements of IEC 60601-1-2:2007. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices. They are in place to provide reasonable protection against dangerous interference in a medical or residential environment.

***Immunity to electromagnetic interference*** - this refers to the levels of electromagnetic interference that the control unit can withstand from nearby sources radiating radio frequency (RF) energy (e.g. from mobile phones, network devices etc).

***Electromagnetic emissions*** - this refers to the levels of RF energy the control unit emits.

The immunity levels are set out in the following manufacturers guidance. If these levels are exceeded then the system may not operate correctly or stop operating. It is important therefore to try to ascertain the source of the interference by turning nearby equipment off. There are simple measures that can be taken to correct the problem:

- Remove or relocate the interfering equipment
- Increase the separation distance between the control unit and the interfering equipment

The RF emissions are set out in the following manufacturers guidance. The control unit generates very low RF energy, however interference to sensitive equipment is still possible. If interference to radio/tv reception and/or other equipment is suspected, turning the control unit off and on can determine if this is the case. There are simple measures that can be taken to correct the problem:

- Relocate the receiving antenna
- Increase the separation distance between the control unit and affected equipment

Due to the increasing number of wireless devices, such as laptops and mobile phones, it is important that the system is installed following the manufacturer's guidance to ensure continued and reliable operation.



## Requirements according to IEC 60601-1-2:2007

Pure Air 17 & 20 are intended for use in the electromagnetic environment specified below.



- The control unit should not be used next to or stacked with other equipment where possible. If this is unavoidable the control unit should be observed to verify normal operation.


<b>Guidance and manufacturer's declaration – electromagnetic emissions</b>		
<b>Emission test</b>	<b>Compliance</b>	<b>Electromagnetic environment – guidance</b>
RF emission CISPR 11	Group 1	The control unit uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emission CISPR 11	Class B	Pure Air 17 & 20 are suitable for use in all establishments, including domestic establishments and those directly connected to the public, low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

## Guidance and manufacturer's declaration – electromagnetic immunity

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s)	± 1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

**N.B:** UT is the a.c. mains voltage prior to application of the test level.

## Guidance and manufacturer's declaration – electromagnetic immunity

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
<p>Conducted RF IEC 61000- 4-6</p> <p>Radiated RF IEC 61000- 4-3</p>	<p>3 Vrms 150 kHz to 80 MHz</p> <p>3 V/m 80 MHz to 2.5 GHz</p>	<p>3 Vrms</p> <p>3 V/m</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the control unit, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> <p><math>d = 1.2\sqrt{P}</math></p> <p><math>d = 1.2\sqrt{P}</math> 80 MHz to 800 MHz  <math>d = 2.3\sqrt{P}</math> 800 MHz to 2.5 GHz</p> <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey*, should be less than the compliance level in each frequency range**.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> <div style="text-align: center;">  </div>

**N.B:** At 80 MHz and 800 MHz, the higher frequency range applies. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

\* Field strengths from fixed transmitters cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which Pure Air 17 or 20 is used exceeds the applicable RF compliance level above, Pure Air 17 or 20 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the system.

\*\* Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Pure Air 17 & 20 are intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer/user of Pure Air 17 or 20 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Pure Air 17 or 20 system, as recommended below, according to the maximum output power of the communications equipment.

<b>Recommended separation distances between portable and mobile RF communications equipment and the control unit</b>			
Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)		
	Electromagnetic environment – guidance		
	150 KHZ TO 80 MHZ D = 1.2VP	80 MHZ TO 800 MHZ D = 1.2VP	800 MHZ TO 2.5 GHZ D = 2.3VP
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p><b>N.B:</b> At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

## WARRANTY & SERVICE

- Select Medical Ltd guarantees this equipment under normal use for a period of 1 year after delivery to the original purchaser, proof of purchase must be presented with any claim.
- For any equipment returned within the warranty period and proven to be defective we agree to either:
  - a) correct the defect by product repair
  - b) replace the product with one of the same or similar design or
  - c) refund the purchase price, without charge.Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.
- This warranty excludes equipment damage or failure through acts of god, an incidence of excess voltage or current, shipping, tampering, improper maintenance, carelessness, accidental damage, negligence or misuse, or products which have been altered, repaired or dismantled other than with the manufacturer's written authorisation and by its approved procedures and by properly qualified technicians.
- In no event shall Select Medical be liable for any direct or indirect damages or losses resulting from the use of the equipment.







### Contact Information

T: 01254 668899 | E: [sales@selectmedical.co.uk](mailto:sales@selectmedical.co.uk)  
[www.selectmedical.co.uk](http://www.selectmedical.co.uk)



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