



**domnick hunter**

**PNEUDRI MIDI PLUS  
DME 012 – DME080**



**USER GUIDE**



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# 1. Safety Information

**Important:** Do not operate this equipment until the safety information and instructions in this user guide have been read and understood by all personnel concerned.

**Only competent personnel trained, qualified, and approved by domnick hunter should perform commissioning, service and repair procedures.**

Use of the equipment in a manner not specified within this user guide may impair safety and invalidate your warranty.

When handling, installing or operating this equipment, personnel must employ safe engineering practices and observe all related regulations, health & safety procedures, and legal requirements for safety.

Ensure that the equipment is depressurised and electrically isolated, prior to carrying out any of the scheduled maintenance instructions specified within this user guide.

Most accidents that occur during the operation and maintenance of machinery are the result of failure to observe basic safety rules and procedures. Accidents can be avoided by recognising that any machinery is potentially hazardous.

**domnick hunter** can not anticipate every possible circumstance which may represent a potential hazard. The warnings in this manual cover the most known potential hazards, but by definition can not be all-inclusive. If the user employs an operating procedure, item of equipment or a method of working which is not specifically recommended by **domnick hunter** the user must ensure that the equipment will not be damaged or become hazardous to persons or property.

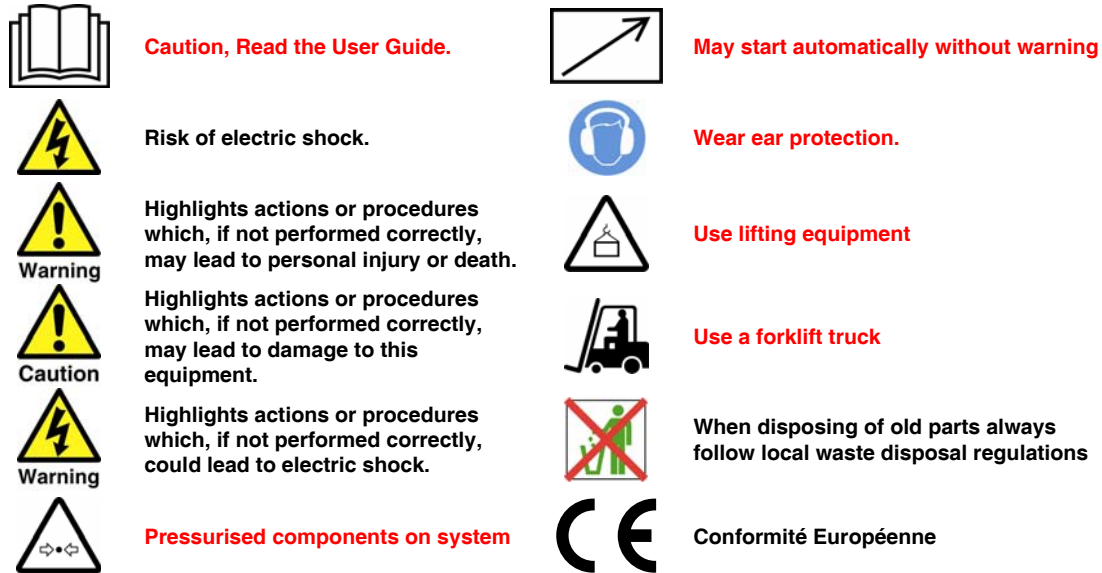
Should you require an extended warranty, tailored service contracts or training on this equipment, or any other equipment within the domnick hunter range, please contact your local domnick hunter office.

Details of your nearest **domnick hunter** sales office can be found at: [www.domnickhunter.com](http://www.domnickhunter.com).

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## 1.1 Markings and symbols

The following markings and international symbols are used on the equipment and within this user guide:



## 1.2 Hazardous Substances

The chambers of the dryer are filled with DRYFIL desiccant material. This is a powerful desiccant and will dry out the atmosphere, eyes, nose, and mouth.

If the desiccant comes into contact with the eyes or skin, wash the affected area with copious amounts of water.

DRYFIL may contain some dust therefore an orinasal dust respirator should be worn when handling the equipment. Adequate ventilation should be provided when working with desiccant.

The desiccant is classified as non-hazardous for transportation.

DRYFIL will evolve heat on contact with moisture and may generate pressure in a confined space. DRYFIL should therefore be stored in a dry place in its original packaging.

DRYFIL is non-flammable. Any fire should be fought by means appropriate to the material causing the fire.

DRYFIL should be disposed of into a licensed land fill site.

## 2. Description

**domnick hunter** desiccant dryers are designed to remove moisture vapour from compressed air. Providing pressure dewpoints of -40°C (-40°F) or -70°C (-100°F) at specified conditions.

ISO 8573.1 Air Quality Class

-40°C (-40°F) PDP 1.2.1.\*

-70°C (-100°F) PDP 1.1.1.\* Optional

\*(when fitted with suitable downstream filtration)

The dryer comprises of an inlet and outlet manifold joined together by an aluminium column. The column has two internal chambers filled with desiccant material. During operation one chamber is on-line (drying), whilst the opposite chamber is regenerating. This process is known as Pressure Swing Adsorption (PSA).

### **Pressure Swing Adsorption (PSA)**

A small percentage of dried air is taken from the dryer output flow and is used to regenerate the saturated chamber by expanding the dried air from line pressure to atmospheric pressure. During this process, the moisture is physically removed from the regenerating chamber and vented to atmosphere through the exhaust silencers.

### **Dewpoint Dependent Switching (DDS) – optional**

If DDS is fitted, this will adjust the dryer's cycle in line with the moisture loading placed upon it, by constantly monitoring the processed air moisture content. Also available as a retrofit to all DME dryer models.

## 2.1 Technical Specification

This specification is valid when the equipment is located, installed, operated, and maintained as specified within this user guide.

Specific	Parameter	Units	DME012 – DME040	DME050 – DME080
	Dewpoint:	-	-40°C (-40°F) -70°C (-100°F)	
	Air Quality :	ISO8573.1	Class 1.2.1 Class 1.1.1 (Optional)	
	Minimum Inlet Pressure	bar g (psi g / MPa g)	4 (58 / 0.4)	
	Maximum Inlet Pressure	bar g (psi g / MPa g)	16 (232 / 1.6)	13 (188 / 1.3)
	Inlet Temperature	°C (°F)	5 – 50 41 - 122	
	Inlet Connection	Inches	1/2"	1"
	Outlet Connection	inches	1/2"	1"

Flowrate (7 barg / 100 psi g / 0.7 MPa g @ 35°C / 95°F)	Model	cfm	m <sup>3</sup> / min	m <sup>3</sup> / hour
	DME012	24	0.68	40.8
	DME015	32	0.91	54.6
	DME020	42	1.19	71.4
	DME025	53	1.5	90
	DME030	65	1.84	110.4
	DME040	88	2.49	149.4
	DME050	106	3	180
	DME060	130	3.68	220.8
	DME080	176	4.98	298.8

Note:

The flow is referenced to 20°C (68°F) and 1013mbar A (14.69 psi A / 0.1 MPa A).

Electrical	Parameter	Units	DME012 – DME040	DME050 – DME080
	Supply Voltage	V ac	230V ac 50/60Hz ± 10% 110V ac 50/60Hz ± 10%	
	Power	W	52	30
	Fuse	mA	500 (230v Supply) 1000 (110v Supply)  5 x 20mm time delay “T”	

Environmental	Parameter	Units	DME012 – DME080
	Temperature	°C (°F)	2 – 45 35 - 113
	Humidity	-	50% @ 40°C (80% MAX ≤ 31°C)
	IP Rating	-	IP65 / >NEMA 13
	Pollution Degree	-	2
	Installation Category	-	II
	Altitude	m (ft)	< 2000 (6562)
	Noise	dB(A)	<75dBA



**Caution**

Before continuing with the installation and commissioning of this equipment:

Ensure that it is correctly sized for the inlet pressure, taking into consideration the pressure drop caused by the valves, pipes and filters within the system. Allowance should be made for purge air loss. The dryer should be typically sized at 1 bar (14 psi) 0.1MPa below nominal compressor output pressure.

The purge air flow is factory set for 6 bar g (87 psi g) minimum system pressure. Should the minimum supply pressure be lower than this figure the purge air flow must be reset in order to maintain the specified dewpoint.

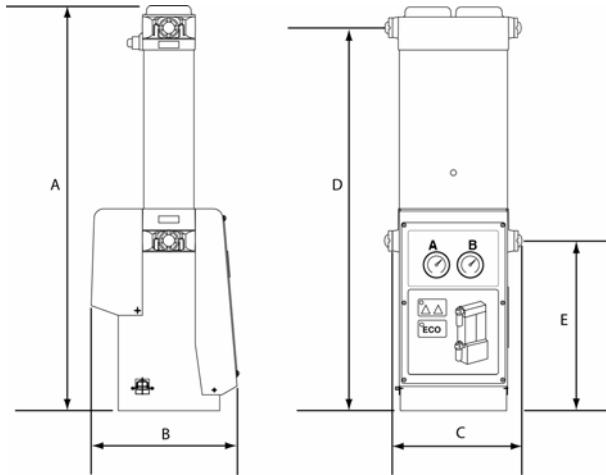
Ensure that it is correctly sized for inlet temperature to meet the dewpoint specified.

Ensure that the electrical supply voltage and frequency meet the requirements detailed within this specification and on the equipment rating plate.

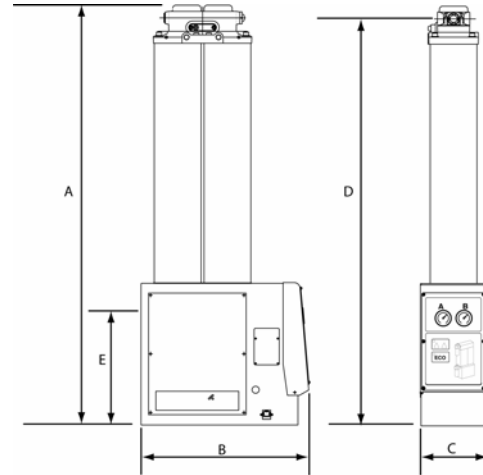


## 2.1.1 Dimensions

DME012 – DME040



DME050 – DME080

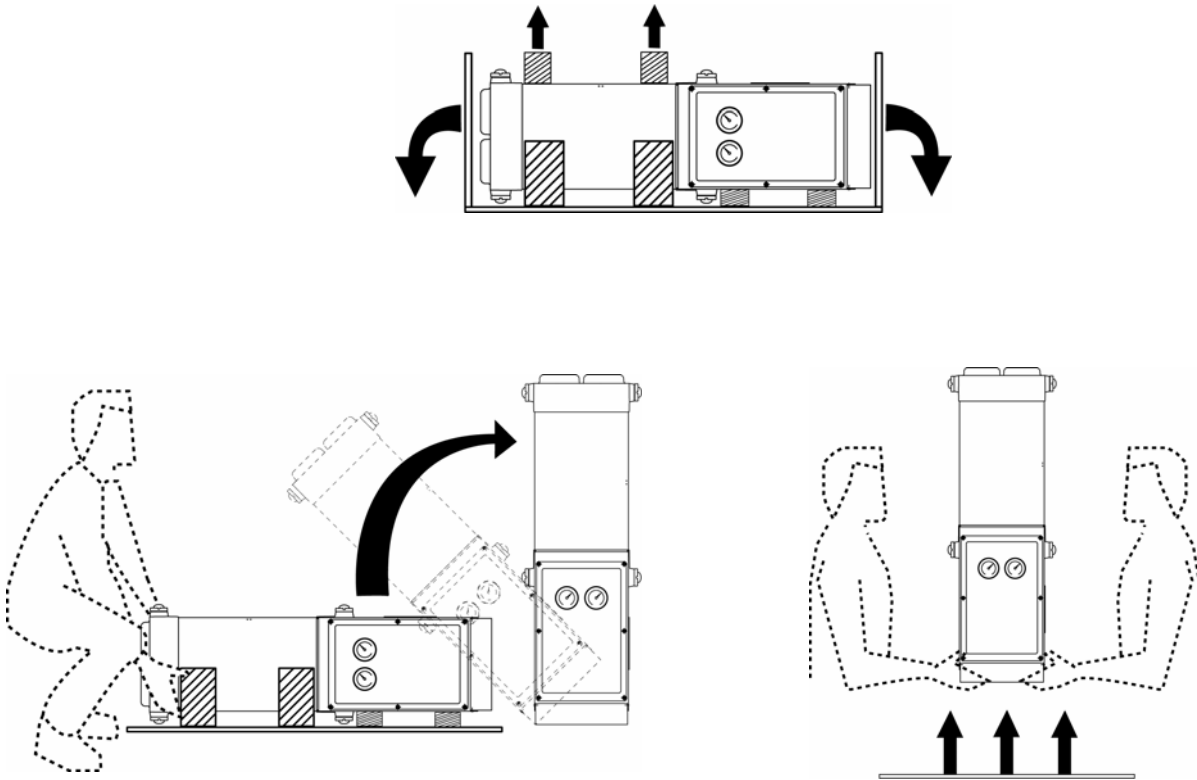


Model	A mm (inches)	B mm (inches)	C mm (inches)	D mm (inches)	E mm (inches)	Weight Kg (lbs)
DME012	837 (32.9)	302 (11.9)	284 (11.2)	794 (31.26)	352 (13.86)	32 (70)
DME015	1003 (39.5)	302 (11.9)	284 (11.2)	960 (37.8)	352 (13.86)	37 (81)
DME020	1168 (46.0)	302 (11.9)	284 (11.2)	1125 (44.29)	352 (13.86)	42 (92)
DME025	1333 (52.5)	302 (11.9)	284 (11.2)	1290 (50.79)	352 (13.86)	47 (103)
DME030	1499 (59.0)	302 (11.9)	284 (11.2)	1456 (57.32)	352 (13.86)	52 (114)
DME040	1747 (68.8)	302 (11.9)	284 (11.2)	1704 (67.09)	352 (13.86)	60 (132)
DME050	1433 (56.4)	566 (22.3)	220 (8.7)	1389 (54.69)	395 (15.55)	80 (176)
DME060	1599 (62.9)	566 (22.3)	220 (8.7)	1555 (61.22)	395 (15.55)	90 (198)
DME080	1847 (72.7)	566 (22.3)	220 (8.7)	1803 (70.98)	395 (15.55)	104 (229)

## 2.2 Unpacking the equipment

It is recommended that the equipment is moved into position using a forklift truck or pallet truck before removing the packaging.

Remove the equipment from its packaging using the following illustrations for guidance and check that it has not been damaged in transit.



The following items have been included with your equipment:

Description	Qty
DME Dryer	1
Rewireable IEC socket **	1
Dryer Test Certificate	1
Hygrometer Test Certificate*	1

\*Only applies to DDS dryers.

\*\* CSA Dryers come complete with a moulded cord set.

If any damage is found or items are missing, please report this immediately to the carrier and the distributor involved (if applicable), or directly to **domnick hunter ltd.**



## 2.3 Overview of the equipment

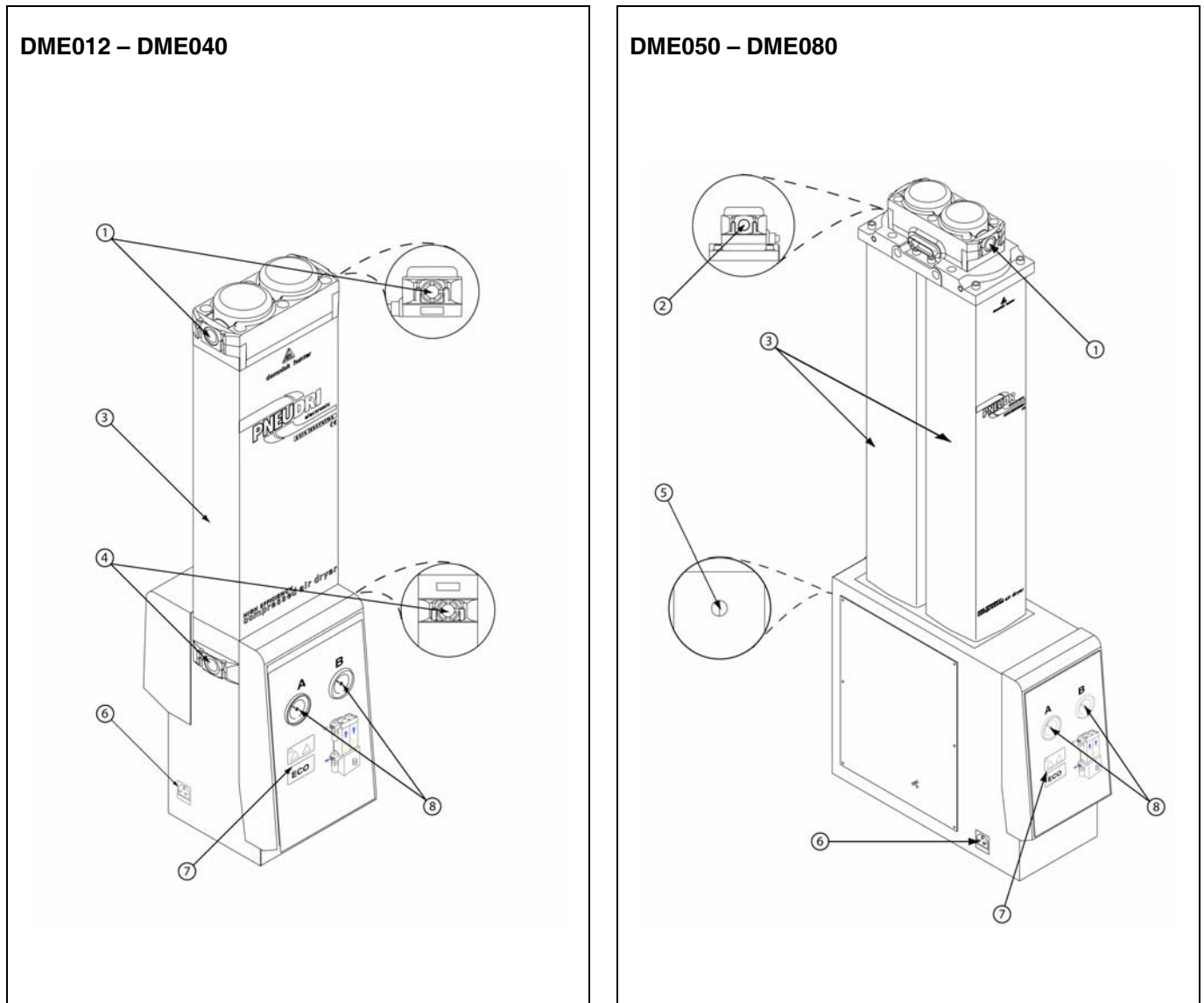




Figure 2.3

Ref	Identification	Ref	Identification
1	Outlet port sight glass *	5	 Inlet filter port
2	 Outlet filter port	6	Electrical power supply inlet
3	Column	7	Indicators
4	Inlet port sight glass **	8	Pressure Gauges

\* Remove one sight glass for connection to the output filter (Dryers DME012 – DME040 only)

\*\* Remove one sight glass for connection to the inlet filter (Dryers DME012 – DME040 only)

### 3. Installation & Commissioning



Only competent personnel trained, qualified, and approved by domnick hunter should perform installation, commissioning and service procedures.

#### 3.1 Recommended system layout

The dryer should be installed with the correct pre-filtration and condensate management equipment to meet both the specification and local environmental requirements.

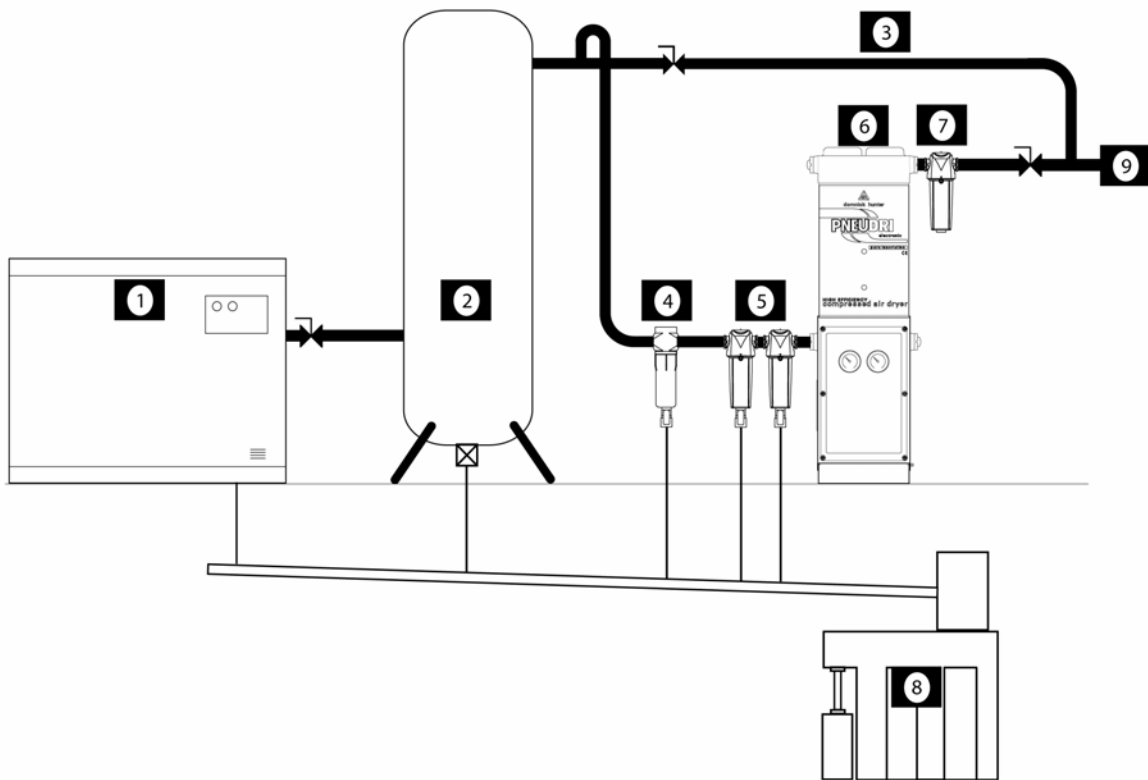


Figure 3.1

Ref	Description	Ref	Description
1	Compressor	5	Dryer pre-filtration
2	Wet air receiver	6	MX Dryer
3	Bypass line	7	Dust filter
4	Water separator	8	Oil / Water separator
	Isolation Valve	9	Outlet to application



The use of a bypass line will allow wet untreated air into the system. It should therefore only be used in extreme circumstances.

### 3.2 Locating the equipment

Identify a suitable location for the equipment taking into consideration the minimum space requirements for maintenance and lifting equipment as shown in Figure 3.2. When considering the final location of the equipment take into account the noise generated when in use.

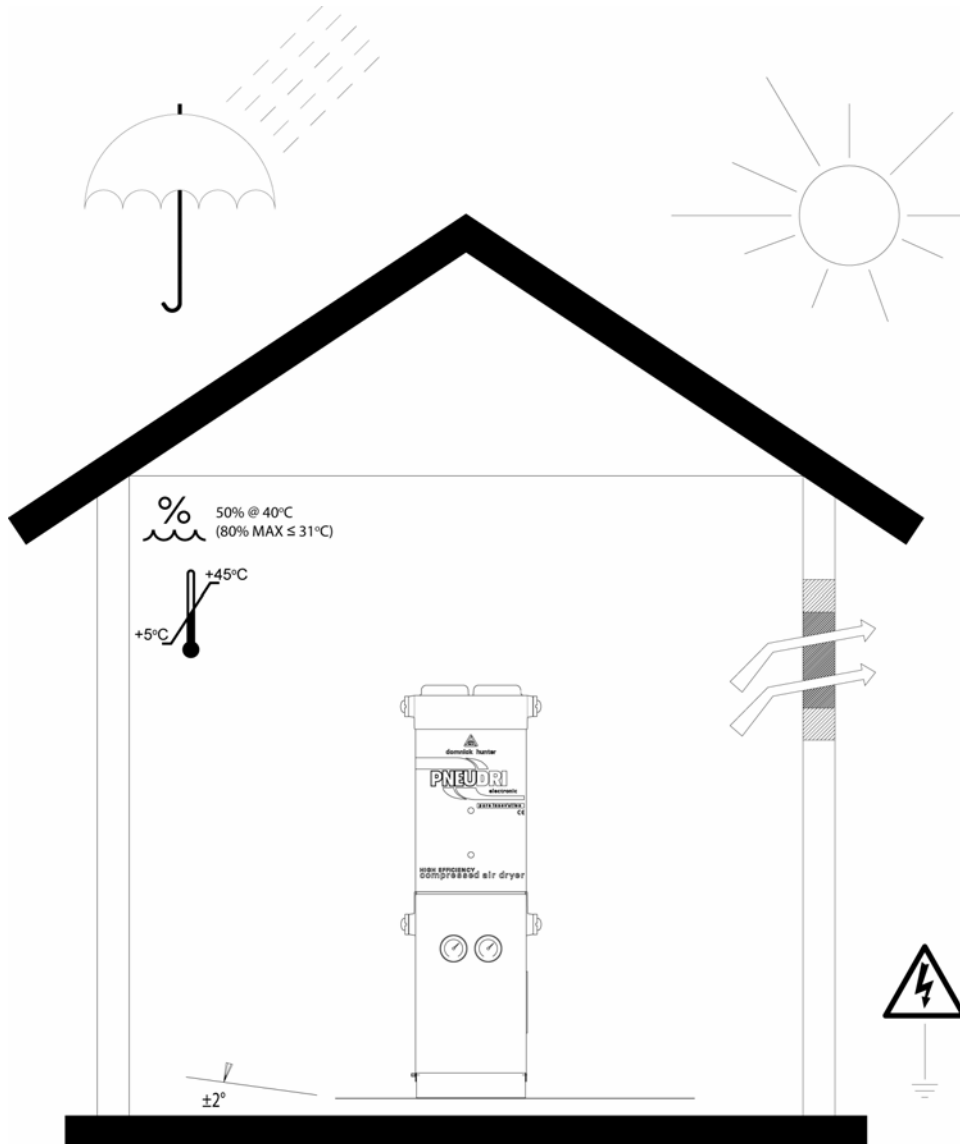


Figure 3.2

The dryer can be free standing or secured to the floor via the fastener points provided in the base.

### 3.3 Mechanical Installation

Once the dryer has been located into position install the piping and filtration for connection to the inlet and outlet manifold.

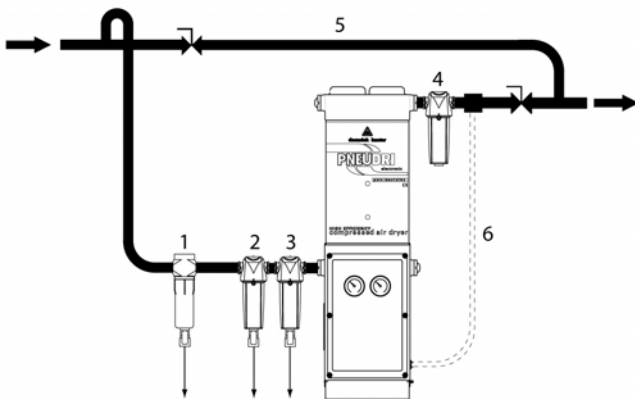
The dryers DME012 – DME040 have two inlet ports and two outlet ports available as shown in figure 2.3 of this user guide. Remove one sight glass from each port ready for connection to the filters.



**Once the sight glass has been removed from the outlet port, the filter and piping must be installed immediately to prevent the remaining sight glass from adsorbing the moisture from the atmosphere.**

It is essential that an AA grade pre-filter and an AR grade after filter are fitted to the dryer as shown in Figure 3.3. An additional AO grade filter is also recommended at the inlet. In extreme conditions a water separator (WS) may also be required.

Ensure that each filter condensate drain is suitably piped away and any effluent is disposed of in accordance with local regulations.



Ref	Description
1	Water Separator
2	AO grade filter
3	AA grade filter
4	AR grade filter
5	By- pass line
6	Feed line (Optional with Dewpoint Dependent Switching)
	Isolation valves

Figure 3.3

The Dewpoint Dependent Switching (DDS) system requires a sampling point to be inserted into the piping between the AR grade outlet filter and the isolation valve as shown in figure 3.3. This sampling point should be linked to the 4mm push in connector of the DDS system using P.T.F.E tubing.

It is important to ensure that all piping materials are suitable for the application, clean and debris free. The diameter of the pipes must be sufficient to allow unrestricted inlet air supply to the equipment and outlet gas / air supply to the application.

When routing the pipes ensure that they are adequately supported to prevent damage and leaks in the system.

All components used within the system must be rated to at least the maximum operating pressure of the equipment. It is recommended that the system be protected with suitably rated pressure relief valves.

A by-pass line may be installed into the system to provide a constant air supply during maintenance.



**The by-pass line will allow untreated air to pass to the application and should only be used when the dryer has been shut down.**

### 3.4 Electrical Installation

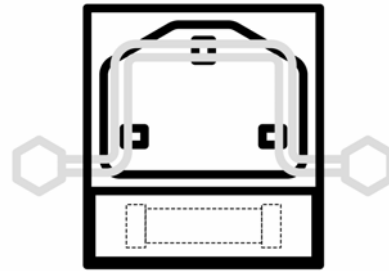


**A fully qualified electrical engineer must undertake all electrical work in accordance with local regulations.**

Attach the cordset provided to the fused electrical power supply inlet on the equipment and connect to the electrical supply.

If a cordset, other than the one provided with the equipment, is used to connect the equipment to the electrical supply ensure that it is suitably rated for the application and in accordance with local and national code regulations.

Refer to the technical specification for replacement fuse requirements.



**Warning**

**The equipment must be bonded to earth through the cordset.**

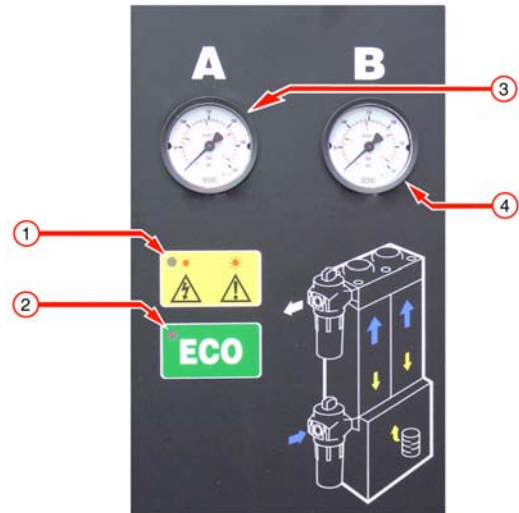
## 4. Operating the equipment

### 4.1 Overview of Controls

The Midi plus dryer is fully automatic and requires no user intervention until shut-down.

The fascia of the dryer has consists only of indicators as follows:

- 1 Power "ON" Indicator
- 2 ECO (DDS) Indicator
- 3 Column A pressure Gauge
- 4 Column B pressure Gauge



### 4.2 Starting the equipment



**Start-up should be undertaken by a domnick hunter trained, qualified and approved service engineer.**

1. Ensure that the isolation valves on the inlet and the outlet of the dryer are closed.
2. Connect the electrical supply to the dryer and verify that the Power On indicator is illuminated.
3. If a by-pass line is fitted ensure that the by-pass valve is fully open.
4. Slowly open the isolation valve on the inlet of the dryer. Verify that there are no leaks.
5. Check that the system pressure relief valve is closed.
6. Test the condensate drains of the filters and verify that they are discharging correctly into a suitable collection vessel.
7. When the dryer is pressurised to full system pressure, slowly open the outlet isolation valve.  
If a bypass line has been fitted, close the bypass valve.
8. Verify that the column pressure gauges are cycling between zero and full system pressure every three minutes.

No further intervention is required for normal operation.



## Dewpoint Dependent Switching (DDS) - optional

If the dryer is producing air at a better dewpoint than specified the DDS system will hold the dryer at a point just before the changeover occurs. The green “ECO” LED will illuminate and both pressure gauges will read full system pressure.

The dryer will resume normal operation the instant the DDS system monitors a fall in dewpoint to the specified level. The crystals in the outlet sight glass moisture indicator should be orange for correct operation, however, if these change colour to clear the dryer is producing a wetter dewpoint than required, and the cause of this must be investigated (refer to fault diagnosis table).

### 4.3 Stopping the equipment

1. Close the isolation valve on the outlet of the dryer and, If a bypass line has been fitted, simultaneously open the bypass valve.
2. Close the isolation valve on the inlet to the dryer.
3. De-pressurise the dryer by venting through the drain ball valve on the outlet dust filter.



Note: The drain valve should be opened gradually.

4. Disconnect the electrical supply to the dryer.












## 5. Servicing

The recommended Service procedures identified in table 5.2 and all other repair and calibration work should be undertaken by a domnick hunter trained, qualified and approved engineer.

### 5.1 Cleaning

Clean the equipment with a damp cloth only and avoid excessive moisture around any electrical sockets. If required you may use a mild detergent, however do not use abrasives or solvents as they may damage the warning labels on the equipment.

### 5.2 Service Intervals

Description of Service Requirement		Typical Recommended Service Interval						
Component	Operation	Daily	Weekly	3 Months	6 Months	12 Months	24 Months	30 Months
Dryer	Check POWER ON indicator is illuminated.		-	-	-	-	-	-
Dryer	Check STATUS / FAULT indicators located on the control panel.		-	-	-	-	-	-
Dryer	Check for air leaks.			-	-	-	-	-
Dryer	Check the pressure gauges during purging for excessive back pressure.	-	-		-	-	-	-
Dryer	Check the condition of electrical supply cables and conduits.	-	-		-	-	-	-
Dryer	Check for cyclic operation.	-	-	-		-	-	-
Dryer	Replace the active exhaust silencers <b>Recommended Service A</b>	-	-	-			-	-
Filtration	Replace the inlet, outlet and control air filters, and service drains. <b>Recommended Service B</b>	-	-	-	-		-	-
Dryer	Replace / Calibrate dewpoint transmitter (DDS Units only). <b>Recommended Service C</b>	-	-	-	-		-	-
Dryer	Replace the valve seats and seals. <b>Recommended Service D</b>	-	-	-	-	-		-
Dryer	Replace the Desiccant. <b>Recommended Service E</b>	-	-	-	-	-	-	



Check



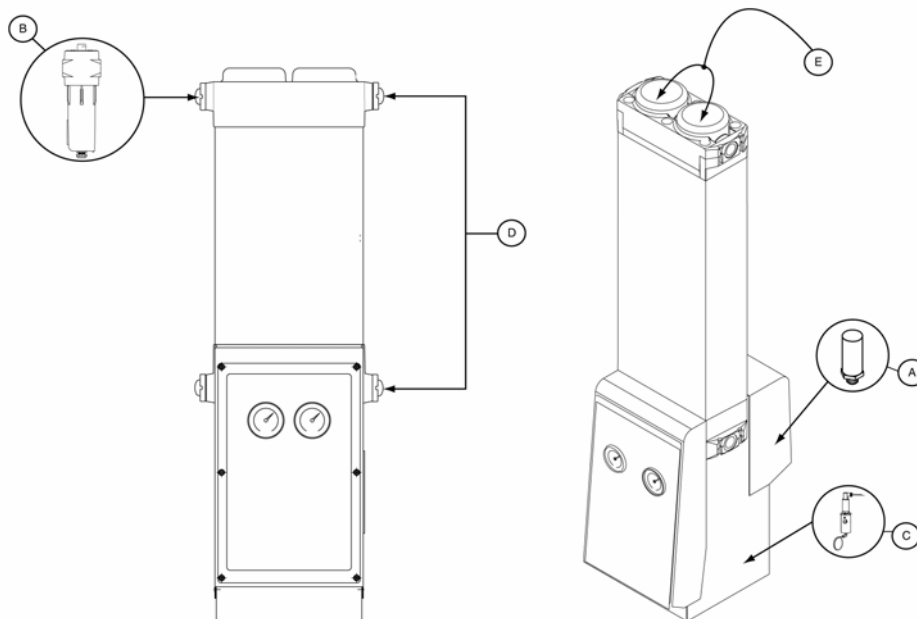
Replace

Table 5.2

### 5.3 Service Kits

Service Kit	Description	Kit No	Quantity
A – Silencer Service	Kit: Exhaust Silencer MIDI	608330001	1
B – Filter Service	Refer to Filter user guide.		
C – Hygrometer Service (DDS Units only)	Kit: Hygrometer Service (Serial No: 509966 onwards)	608203580	1
	Kit: Hygrometer Service (Serial No: Up to 509965)	608203581	1
D – Valve Service	Kit: Valve Overhaul DME012 – DME040	608330006	1
	Kit: Valve Overhaul DME050 – DME080	608330007	1
E – Desiccant Service	AA 11.2 Litre Bag	608203661	See table below
	MS 13X 11.2 Litre Bag	608203662	See table below
	Kit: Column Seals DME012 – DME040	608203733	1
	Kit: Column Seals DME050 – DME080	608330010	1
	Snow storm filler DME012 – DME040	608200622	1
	Snow storm filler DME050 – DME080	608201051	1

	DME012		DME015		DME020		DME025		DME030		DME040		DME050		DME060		DME080	
	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-70	-70
Dryfil AA	1		1		2		2		2		2		3		4		5	
Dryfil MS 13X		1		1		2		2		2		2	3		4		5	
Seals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



## 5.4 Service Record

Date of Commissioning	
-----------------------	--

Service (Hours)	Hours Shown	Date	Served By		Comments / Observations
			Print	Initials	
4,000					
8,000					
16,000					
20,000					
24,000					
28,000					
32,000					
36,000					
40,000					

## 6. Troubleshooting guide

In the unlikely event that a problem occurs on the equipment, this troubleshooting guide can be used to identify the probable cause and remedy.



**Troubleshooting should only be attempted by competent personnel. All major repair, and calibration work should be undertaken by a domnick hunter trained, qualified and approved engineer.**

Problem	Indication	Probable Cause	Remedy
Poor dewpoint	Crystals go clear in outlet moisture indicator	Entrained Water  Excessive air flow demand  Inlet pressure too low  Excessive inlet air temperature  Insufficient purge air flow  Exhaust silencers blocked  Contaminated desiccant	Check pre-filtration drains.  Check actual flow against rated flow of dryer Check for recent additions to air system  Check against technical specification  Check against technical specification  Factory set for 6 bar g (87 psig) system pressure.  <b>domnick hunter</b> trained personnel to adjust  Change by <b>domnick hunter</b> trained personnel  Eliminate source of contamination. Desiccant change by <b>domnick hunter</b> trained personnel
Electrical fault	Flashing Yellow LED	Hardware fault	Contact <b>domnick hunter</b> customer services
High differential pressure	Pressure gauges	Excessive outlet flow	Check and regulate air demand
Failure to purge	No depressurisation and poor dewpoint	Purge valve blocked or shut. Exhaust silencers blocked.	Domnick hunter trained personnel to adjust . Change by domnick hunter trained personnel
Outlet air flow stops	Downstream pressure drops. Yellow LED "OFF"	Electrical fault. Blown fuse in plug.	Domnick hunter trained personnel to adjust . Change by domnick hunter trained personnel
Constant depressurisation	Erratic air flow from exhaust	Damaged valve.	Change by domnick hunter trained personnel

## 7. Warranty

**This warranty applies to dryers and associated pre-filters (the Equipment) manufactured and supplied by domnick hunter.**

**Use of the dryer without the recommended genuine domnick hunter manufactured filtration or genuine parts, will expressly invalidate the warranty.**

Should the Equipment be defective as to materials or workmanship, **domnick hunter** warrants that it will remedy such defect for a period of 12 months from the date of despatch. Where the Equipment is a desiccant dryer, the warranty period will be 12 months from the date of commissioning or 18 months from date of despatch, whichever is the earlier, provided such commissioning is carried out by **domnick hunter** or its authorised agent. In the case of Equipment other than a desiccant dryer, the warranty period shall commence from the date of despatch. Should any defect occur during the warranty period and be notified in writing to **domnick hunter** or its authorised agent within the said period, **domnick hunter** will, at its sole option, remedy such defects by repair or by provision of a replacement part, provided that the Equipment has been used strictly in accordance with the instructions provided with each item of the Equipment and has been stored, installed, commissioned, operated and maintained in accordance with such instruction and good practice. **domnick hunter** shall not be under any liability whatsoever under the warranty if, before giving notification in writing to **domnick hunter** as aforesaid, the Customer or any third party meddles, interferes, tampers with or carries out any work whatsoever (apart from normal maintenance as specified in the said instructions) in relation to the Equipment or any part thereof.

Any accessories, parts and equipment supplied by **domnick hunter** but not manufactured by **domnick hunter**, shall carry whatever warranty the manufacturer has given **domnick hunter** provided it is possible for **domnick hunter** to pass on such warranty to the Customer.

To claim under the warranty, the goods must have been installed and continuously maintained in the manner specified in the User Guide. Our Product Support Engineers are qualified and equipped to assist you in this respect. They are also available to make repairs that may become necessary in which event they will require an official order before carrying out the work. If such work is to be the subject of warranty claim, the order should be endorsed 'for consideration under warranty'.

**Any substitution of parts not manufactured or approved by domnick hunter will expressly invalidate the warranty.**

# Declaration of Conformity

EN

**domnick hunter**  
Dukesway, TVTE, Gateshead, Tyne & Wear, NE11 0PZ. UK

## Desiccant Air Dryer

**DME12, DME15, DME20, DME25, DME30, DME40, DME50, DME60, DME80**

**Directives**

97/23/EC,  
98/37/EC,  
73/23/EEC,  
89/336/EEC  
93/68/EEC, 92/31/EEC

**Standards used**

EN ISO 12100-1 : 2003, EN ISO 12100-2 : 2003,  
EN 61000-6-1 : 2001, EN 61000-6-2 : 2001,  
EN 61000-6-3 : 2001, EN 61000-6-4 : 2001,  
EN 61010-1 : 2003  
Generally in accordance with ASMEVIII Div 1 : 2004.

**PED Assesment Route :**

B & D

**Notified body for PED:**

Lloyds Register of Shipping  
71 Fenchurch St. London  
EC3M 4BS

**EC Certificate of Conformity:**

LDS 9900792/5

**Authorised Representative**

Barry Wade  
Business Systems Improvement Manager  
domnick hunter ltd

### Declaration

I declare that as the authorised representative, the above information in relation to the supply / manufacture of this product, is in conformity with the standards and other related documents following the provisions of the above Directives.

**Signature:**

**Date:**

**Declaration Number: /**



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[www.domnickhunter.com](http://www.domnickhunter.com)

a member of the domnick hunter group plc



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