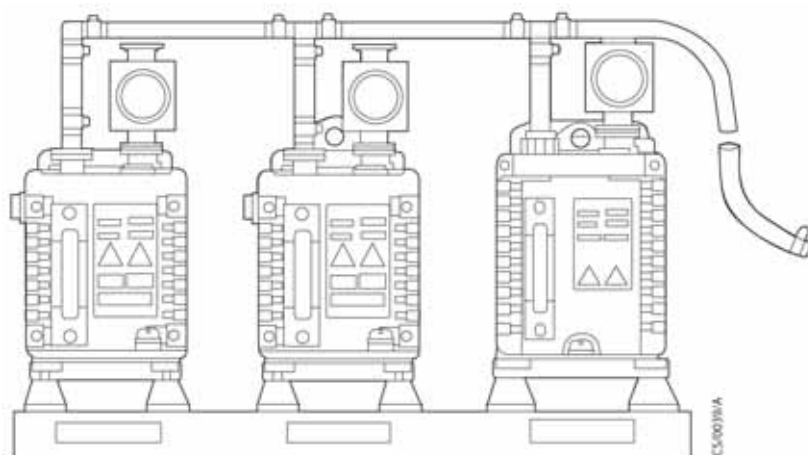


# *Instruction Manual*

## Micromass UK Autospec Rotary Pump Platform Assembly

Description	Item Number
RV3, RVJ2 and E2M18 Pumping Platform	NRA880000





# Declaration of Conformity

We, Edwards,  
Crawley Business Quarter,  
Manor Royal  
Crawley,  
West Sussex, RH10 9LW, UK

declare under our sole responsibility, as manufacturer and person within the EU authorised to assemble the technical file, that the product(s)

Autospec Platform                      NRA880000

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

EN1012-2:1996, A1: 2009	Compressors and Vacuum Pumps. Safety Requirements. Vacuum Pumps
EN12100:2010	Safety of machinery. General principles for design. Risk assessment and risk reduction.
EN60034-1: 2004	Rotating electrical machines. Rating and performance
EN13463-1: 2009	Non-electrical equipment for use in potentially explosive atmospheres. Basic method and requirements
EN13463-5: 2003	Non-electrical equipment for use in potentially explosive atmospheres. Protection by constructional safety 'c'

and fulfils all the relevant provisions of

2006/42/EC	Machinery Directive
2006/95/EC	Low Voltage Directive
2004/108/EC	Electromagnetic Compatibility (EMC) Directive
94/9/EC	ATEX Directive on use in Potentially Explosive Atmospheres

*Note: This declaration covers all product serial numbers from the date this Declaration was signed onwards.*

Peter Meares, GV Technical Support Manager

26.02.2013, Lutin, CZ

Date and Place

*This product has been manufactured under a quality system registered to ISO9001*

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For return of equipment, complete the HS Forms at the end of this manual.

# Illustrations

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# Associated Publications

Publication Title	Publication Number
RV3, RV5, RV8, RV12 Rotary Vane Pumps	A652-01-880
Rotary Vacuum Pumps E1M18 and E2M18	A343-01-880
Speedivalvcs	C331-55-880
Vibration Isolators	A248-01-880
System Safety Manual	P400-40-100

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# 1 Introduction

## 1.1 Scope and definitions

For the safe operation of the pump platform please refer to the relevant instruction manuals and safety booklet supplied as part of this document package.

This manual provides Installation, Operation and Maintenance instructions for the pump platform. You must use the pump platform as specified in this manual and associated publications.

Read this manual before you install and operate the pump. Important safety information is highlighted as WARNING and CAUTION instructions; you must obey these instructions. The use of WARNINGS and CAUTIONS is defined below.



### **WARNING**

Warnings are given where failure to observe the instruction could result in injury or death to people.

### **CAUTION**

Cautions are given where failure to observe the instruction could result in damage to the equipment, associated equipment and process.

The following IEC warning labels appear on the pump:



Warning - refer to accompanying documentation.



Warning - hot surface.

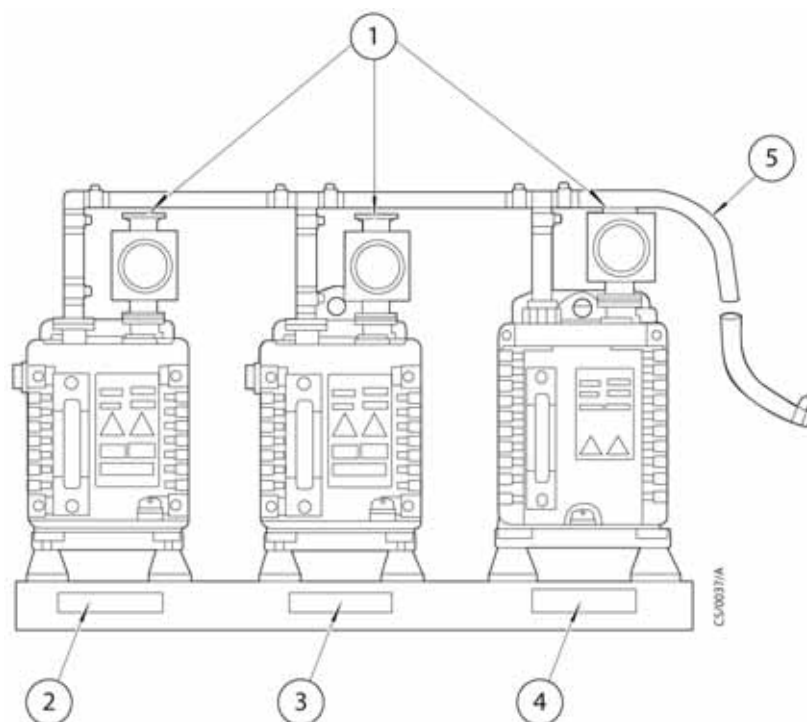
The units used throughout this manual conform to the SI international system of units of measurement.

## 1.2 Description

The pump platform comprises of three rotary vacuum pumps RV3, RV12 and E2MI8 mounted on a single mobile platform. Three manual speedivalve isolation valves provide process isolation. The exhausts from the vacuum pumps are connected via Tygon® tubing and provides a 5-metre exhaust line.

XDS5	Designated Analyser
XDS10	Designated Source
XDS10	Designated Inlet-1

Figure 1 - Autospec rotary pump platform assembly



- 1 Speedivalve
- 2 RV3 Rotary vane pump
- 3 RV12 Rotary vane pump
- 4 E2M18 Rotary vane pump
- 5 Tygon<sup>®</sup> tubing process exhaust

## 2 Technical Data

### 2.1 General

Inlet connection	NW25
Exhaust connection	Tygon® tubing 12.7 mm I.D.
Electrical connections	Harting connector HAN 3A-M 10 A/240 V
Electrical supply	220/240 V, 50/60 Hz, 1 Ph

Technical data relating to the rotary vane pumps can be found in the accompanying product manuals.

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### 3 Installation



#### **WARNING**

This pump platform is mounted on fixed castors; risk of movement is possible which may result in damage to the inlet and exhaust pipe work, ideally the platform should be chocked in its operating position to prevent accidental movement.

The pump platform should be placed in a position where it does not constitute a trip hazard. The vacuum pumps overhang the footprint of the platform. Care should be taken when moving the platform to avoid damage to the platform and personnel.



#### **WARNING**

The pump platform should not be lifted using the individual vacuum pump lifting eyes. The pump platform should be lifted using suitably rated slings positioned beneath the base platform and external to the castors. Care should be taken to ensure the lifting slings do not foul the vacuum pumps.

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## 4 Operation

Refer to the relevant pump and accessory manuals for operation instructions.

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## 5 Maintenance

Refer to the relevant pump and accessory manuals for service and maintenance instructions.

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## 6 Storage and Disposal

### 6.1 Storage

Place protective covers over the inlet and exhaust connections and electrical connections. Store in cool dry conditions until the system is required for use.

### 6.2 Disposal

Dispose of the pump platform and any components removed from it safely in accordance with all local and national safety and environmental requirements.

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## 7 Spares and Accessories

### 7.1 Introduction

Edwards products, spares and accessories are available from Edwards companies and a worldwide network of distributors. The majority of these centres employ Service Engineers who have undergone comprehensive Edwards training.

Order spare parts and accessories from your nearest Edwards company or distributor.

When you order, please state for each part required:

- Model and Item Number of your Equipment
- Serial Number (if any)
- Item Number and Description of the part.

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## Return the equipment or components for service

Before you send your equipment to us for service or for any other reason, you must send us a completed Declaration of Contamination of Vacuum Equipment and Components - Form HS2. The HS2 form tells us if any substances found in the equipment are hazardous, which is important for the safety of our employees and all other people involved in the service of your equipment. The hazard information also lets us select the correct procedures to service your equipment.

We provide instructions for completing the form in the Declaration of Contamination of Vacuum equipment and Components - Procedure HS1.

If you are returning a vacuum pump, note the following:

- If a pump is configured to suit the application, make a record of the configuration before returning the pump. All replacement pumps will be supplied with default factory settings.
- Do not return a pump with accessories fitted. Remove all accessories and retain them for future use.
- The instruction in the returns procedure to drain all fluids does not apply to the lubricant in pump oil reservoirs.

Download the latest documents from [www.edwardsvacuum.com/HSForms/](http://www.edwardsvacuum.com/HSForms/), follow the procedure in HS1, fill in the electronic HS2 form, print it, sign it, and return the signed copy to Edwards.

**Note:** *If we do not receive a completed HS2 form, we will not accept the return of the equipment.*

