

# LC-NMR/MS SINGLE TABLE

**Technical Manual**

**Version 001**

---

**BRUKER**

---

The information in this manual may be altered without notice.

BRUKER accepts no responsibility for actions taken as a result of use of this manual. BRUKER accepts no liability for any mistakes contained in the manual, leading to coincidental damage, whether during installation or operation of the instrument. Unauthorised reproduction of manual contents, without written permission from the publishers, or translation into another language, either in full or in part, is forbidden.

This manual was written by

Uwe Vogel

© January 11, 2001: Bruker Analytik GmbH

Rheinstetten, Germany

P/N:Z31606  
DWG-Nr:1317001

# Contents

	<b>Contents .....</b>	<b>iii</b>
<b>1</b>	<b>About this Manual.....</b>	<b>1</b>
1.1	Introduction .....	1
1.2	Disclaimer .....	1
1.3	Warning and Notes .....	1
1.4	Contact for Additional Technical Assistance .....	2
<b>2</b>	<b>Terms and Definitions .....</b>	<b>3</b>
<b>3</b>	<b>General.....</b>	<b>5</b>
3.1	Overview .....	5
3.2	Physikal Specifications .....	5
<b>4</b>	<b>Table Wiring.....</b>	<b>7</b>
4.1	Table front- and rear view .....	7
4.2	Table wiring .....	8
4.3	Part Numbers .....	9
4.4	Intern Wiring .....	9
4.5	Pump and Fan control .....	10
	<b>Figures .....</b>	<b>11</b>
	<b>Tables .....</b>	<b>13</b>



# About this Manual

# 1

## **Introduction**

**1.1**

This manual is included in delivery of the LC-NMR/MS single table  
It instructs how to:

- install and configure the single table
- wire and operate the table

## **Disclaimer**

**1.2**

The Unit should only be used for its intended purpose as described in this manual.  
Use of the unit for any purpose other than that for which it is intended is taken only  
at the users own risk and invalidates any and all manufacturer warranties.

Service or maintenance work on the unit must be carried out by qualified  
personel.

## **Warning and Notes**

**1.3**

There are two types of information notices used in this manual. These notices  
highlight important information or warn the user of a potentially dangerous  
situation . The following notices will have the same level of importance throughout  
this manual:



**Note:** Indicates important information or helpful hints



**WARNING:** Indicates the possibility of severe personal injury, loss of life or  
equipment damage if the instructions are not followed.

For further technical assistance on the LC-NMR/MS single table, please do not hesitate to contact your nearest BRUKER dealer or contact us directly at:

BRUKER ANALYTIK GMBH  
Am Silberstreifen  
D-76287 Rheinstetten  
Germany

Phone:	+49 721 5161 0
FAX:	+49 721 5171 01
Emai:	lcnmr@bruker.de
Internet:	www.bruker.de

# ***Terms and Definitions***

# **2**

<b>BNMI:</b>	Bruker NMR_MS Interface
<b>Esquire:</b>	Bruker Ion Trap MS System
<b>Esquire 3000:</b>	Successor to the Esquire
<b>LC-NMR:</b>	Combined HPLC and NMR analysis
<b>HyStar:</b>	Bruker PC (NT) Program integrating control of the BPSU36, BSFU, BNMI and Esquire (MS) systems.

# **Terms and Definitions**



## Overview

3.1

The LC-NMR/MS single table is designed to have a parking area for the ESQUIRE 3000, the vacuum pump and the BNMI unit.

## Physikal Specifications

3.2

### LC-NMR/MS single table

Height	720mm
Width	720mm
Depth	800mm
Weight	78kg

### Mains Voltage Line In

Power Requirements	230V 50Hz
Power Input (max.)	3500VA

### Vacuum Pump Supply Voltage (line Filter)

-Note: Must be connected to Esquire line Output

Fuses	2xT6.3A/250V
-------	--------------



**The main earth connection to the Unit is supplied via the largest pin in the Euro-Standard 3 Pin connector and must be connected to ground using either the mains cable supplied or one of similar specifications. Incorrect earthing of the unit can be very dangerous.**



**The airflow through the pump cabinet may not be obstructed. Make sure that the front and rear air passageways are not blocked.**



# Table Wiring

# 4

Table front- and rear view

4.1

Figure 4.1. Front and rear view

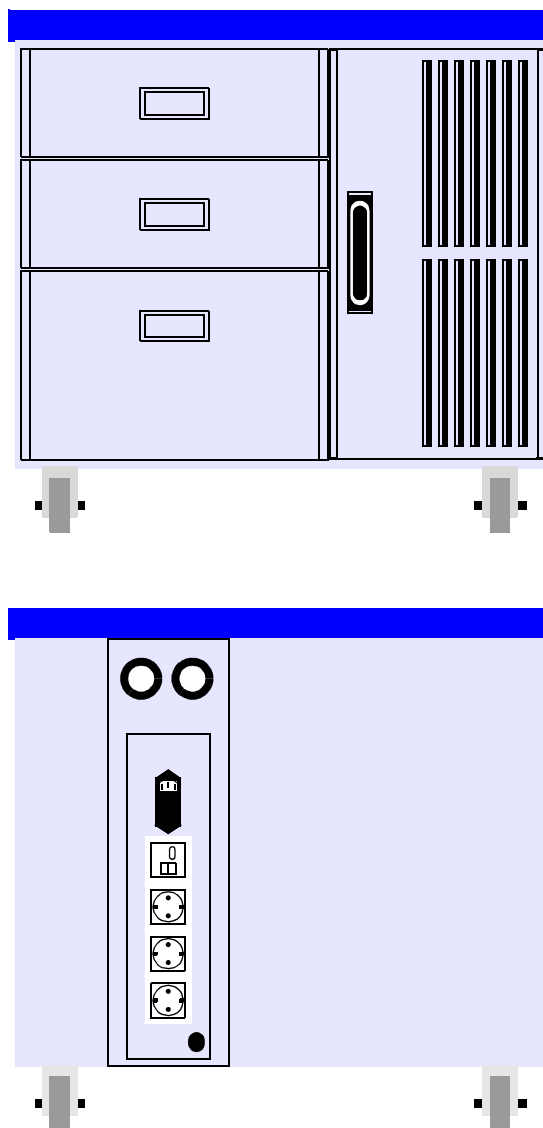
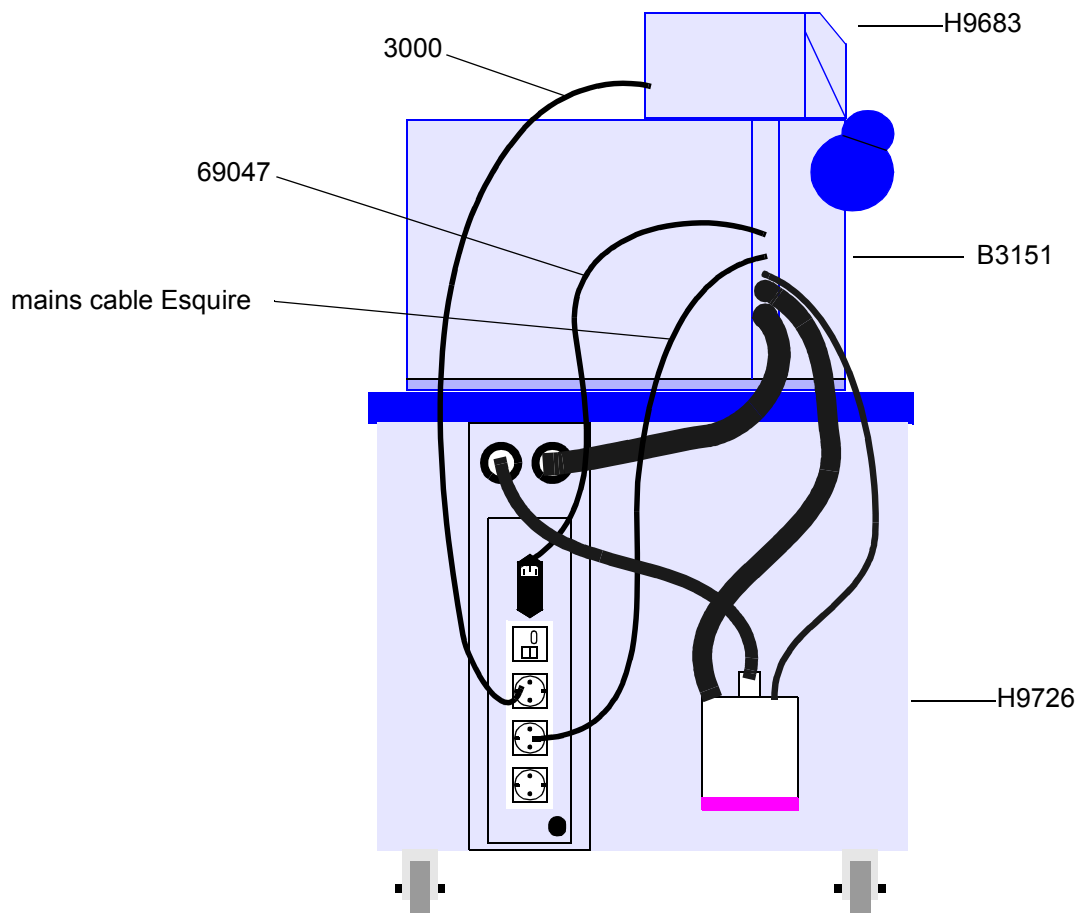


Figure 4.2. Tube and cable wiring



Part Numbers

4.3

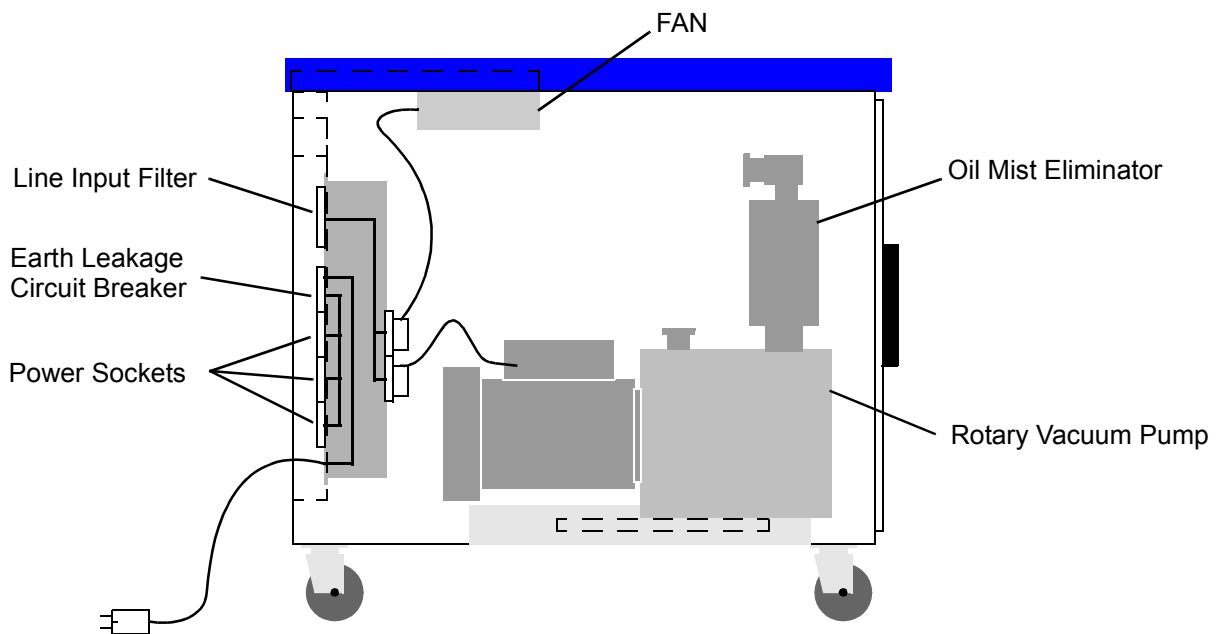
Table 4.1. Part Description

Part Description	Part No,
BNMI Unit	H9683
Esquire 3000	B3151
LC-NMR/MS single table	H9726
mains cable (BNMI UNIT)	3000
mains cable (ESQUIRE 3000)	
mains extension cable (from ESQUIRE line out to table line in	69047

Intern Wiring

4.4

Figure 4.3. Internal wiring





*The Rotary Vacuum Pump and the FAN have to be connected (via spiral cable) to the two internal power sockets.*

*The two internal power sockets are controlled by the Esquire 3000.*

*The Esquire line output must be connected to the table line input.*

# Figures

<b>1</b>	<b><i>About this Manual</i></b>	<b>1</b>
<b>2</b>	<b><i>Terms and Definitions</i></b>	<b>3</b>
<b>3</b>	<b><i>General</i></b>	<b>5</b>
<b>4</b>	<b><i>Table Wiring</i></b>	<b>7</b>
	Figure 4.1. Front and rear view .....	7
	Figure 4.2. Tube and cable wiring .....	8
	Figure 4.3. Internal wiring .....	9





# Tables

<b>1</b>	<b><i>About this Manual</i></b>	<b>1</b>
<b>2</b>	<b><i>Terms and Definitions</i></b>	<b>3</b>
<b>3</b>	<b><i>General</i></b>	<b>5</b>
<b>4</b>	<b><i>Table Wiring</i></b>	<b>7</b>
Table 4.1.	Part Description .....	9



