Ordering Guide

HP 59970C ChemStation

February, 1987

General Description

The HP 59970C ChemStation analytical workstation is a single-tasking, single-user, singleinstrument data system designed for use with HP 5988A and 5995C MSs and the 5970B Mass Selective Detector (MSD). The ChemStation is based on an HP 9000 Series 300 Technical Computer with 2 Mbytes of RAM in either monochrome or color versions. To complete the system, you can choose from a variety of disc drives, printers, and color graphics plotters.

Operating software provides a complete set of MSD, GC/MS and LC/MS applications including programs for Tuning, Data Aquisition, Data Editing, and Reports. A variety of optional software packages can be added to the operating software to enhance system performance. Sequencing software adds complete automation capabilities and control of HP Automatic Liquid Samplers such as the HP 7673A. Colorview software allows the user to gain a quick qualitative understanding of GC/MS results by providing 3-dimensional views of data. PBM Library Search Software and the NBS mass spectral library aid in the identification of unknowns.

Installation and 90-day warranty are provided. Operator training is highly recommended.

How to Order

The HP 59970C workstation can be ordered to satisfy your specific needs. A valid configuration must include the following:

- 1. 59970C ChemStation
- 2. Computer option
- 3. Disc drive option
- 4. Power cord option
- 5. MS-MSD operating software
- 6. Software media option



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The following options should also be specified if desired:

- 1. Printer option
- 2. Plotter option
- 3. Library data base software
- 4. Sequencing software
- 5. Colorview software

On the following pages, gray shading in a box indicates that something **must** be ordered from within that box.



ChemStation Mainframe

Notes	Description	-	Order	Price
Must specify one computer option and one disc drive. May specify printer and/or plotter. Must order 59974J operating software.	MS ChemStation Analytical workstation for use with HP 5988A and HP 5995C MSs and the 5970B MSD.		59970C	N/C

Computer Options

Notes	Description	T	Order	Price
	Monochrome Computer Includes HP 310 computer with 10 MHz 68010 processor, 12" monochrome monitor, 2 MBytes RAM, ITF keyboard, 512 × 400 bit mapped display interface, DIO, GPIO, HPIB and RS232 interfaces and HPIB cabling.		59970C #120	
	Color Computer Includes HP 310 computer with 10 MHz 68010 processor, 12" color monitor, color display board, 2 MBytes RAM, ITF keyboard, 512 × 400 bit mapped display interface, DIO, GPIO, HPIB and RS232 interfaces and HPIB cabling.		59970C #140	

Disc Drive Options

Notes	Description	-	Order	Price
Order all software with media option #630.	10 MByte Disc Drive HP 9153A 10 MByte Winchester disc drive with a built-in 3.5" double- sided flexible disc drive.		59970C #210	
Order all software with media option #630.	20 MByte Disc Drive HP 9133H 20 MByte Winchester disc drive with a built-in 3.5" double- sided flexible disc drive.		59970C #220	

Disc Drive Options, cont'd.

Notes	Description	-	Order	Price
Order all software with media option #630.	40 MByte Disc Drive HP 9133L 40 MByte Winchester disc drive with a built-in 3.5" double- sided flexible disc drive.		59970C #240	
Uses 16 or 67 MByte preformatted cartridges. Recommended for use with options #280 and #290. Order all software with media option #022.	1/4" Tape Drive HP 9144A 1/4" cartridge tape drive for back up storage.		59970C #244	
Order all software with media option #022.	55 MByte Disc Drive HP 7946A 55 MByte Winchester disc drive with a built-in CS-80 cartridge tape drive.		59970C #255	
Requires flexible disc drive or cartridge tape drive for back-up storage. 59970C #244 highly recommended.	81 MByte Disc Drive HP 7957A 81 MByte Winchester fixed disc drive.		59970C #280	
Order all software with media option #022.	132 MByte Disc Drive HP 7914P 132 MByte Winchester disc drive with a built-in CS-80 cartridge tape drive.		59970C #288	
Requires flexible disc drive or cartridge tape drive for back-up storage. 59970C #244 highly recommended.	130 MByte Disc Drive HP 7958A 130 MByte Winchester fixed disc drive.		59970C #290	

Printer Drive Options

Notes	Description	-	Order	Price
For low-volume printing. (200–500) pages per month.	ThinkJet Printer HP 2225A ThinkJet printer with HPIB interface. Includes cables, paper, paper tray and ink cartridges. 150 cps maximum printing speed.		59970C #300	
For high-volume printing and long-term automated operation.	Office Impact Printer HP 2934A dot matrix impact printer with memo-quality, letter quality, and increased letter quality printing modes. Includes HPIB interface, cable and paper. 200 cps maximum printing speed.		59970C #310	

Plotter Options

Notes	Description	-	Order	Price
-	ColorPro Plotter HP 7440A 8-pen color graphics plotter for use with 8.5" × 11" (210mm × 297mm) paper only; 40 cm/s plotting speed.		59970C #400	
	6-Pen Plotter HP 7475A 6-pen color graphics plotter for use with 8.5" × 11" (210mm × 297mm) paper; 54 cm/s plotting speed.		59970C #405	
	Automatic Feed Plotter HP 7550A 8-pen color graphics plotter for use with 8.5" × 11" (210mm × 297mm) and 11" × 17" (297mm × 420mm) paper; 80 cm/s plotting speed.	-	59970C #410	

Power Cord Options

Notes	Description	-	Order	Price
Choose one only.	Power cord for UK		59970C #900	N/C
	Power cord for Australia/NZ		59970C #901	N/C
	Power cord for Europe/220V		59970C #902	N/C
	Power cord for US/Canada		59970C #903	N/C
	Power cord for Switzerland		59970C #906	N/C
	Power cord for Denmark		59970C #912	N/C
	Power cord for South Africa		59970C #917	N/C

ChemStation Software

Notes	Description	-	Order	Price
Must specify media option #022 or #630.	MS Operating Software Operating software for the 59970C MS-MSD ChemStation. Provides complete set of MSD, GC/MS and LC/MS applications. Includes field installation of the ChemStation.	_	59974J	
	CS-80 Tape Media Option Provides back-up copy of 59974J software on CS-80 tape media for use with HP 7946A and 7914P disc drives and 9144A tape drives.		59974J #022	N/C
	3.5" Disc Media Option Provides back-up copy of 59974J software on 3.5" flexible disc media for use with HP 9153A, 9133H and 9133L disc drives.		59974J #630	N/C
Must specify media option #022 or #630. Must supply computer/ID module serial number and order number of original 59974 software purchase.	Upgrade of MS Operating Software Upgrades existing 59974 operating software to 59974J operating software. Requires 1.2 MByte RAM. Installation is not included.		59974J #800	
For international orders only	Delete Installation		59974J #895	
Must specify media option #022 or #630. Must supply order number of original 59974J software purchase.	Repeat Copy of MS Operating Software Provides a repeat copy of 59974J MS operating software for customers who have purchased 59974J software for another system.		59974R	
	CS-80 Tape Media Option Provides back-up copy of 59974R software on CS-80 tape media for use with HP 7946A and 7914P disc drives and 9144A tape drives		59974R #022	N/C
*	3.5" Disc Media Option Provides back-up copy of 59974R software on 3.5" flexible disc media for use with 9153A, 9133H and 9133L disc drives.		59974R #630	N/C
Must specify media option #022 or #630. Must supply computer/ID module serial number and order number of original 59974J software purchase.	Repeat Copy of MS Operating Software Upgrade Provides repeat copy of MS operating software upgrade for existing 59974 software.		59974R #800	

Enhancement Software

Notes	Description	~	Order	Price
Must specify media option #022 or #630. Required for HP 7673 ALS Operation. Requires HP 59974J.	Sequencing Software Adds complete automation capabilities and control of HP Automatic Liquid Samplers such as the HP 7673A for unattended operation.		59972C	
	CS-80 Tape Media Option Provides back-up copy of 59972C software on CS-80 tape media for use with HP 7946A and 7914P disc drives and 9144A tape drives.		59972C #022	N/C
	3.5" Disc Media Option Provides back-up copy of 59972C software on 3.5" flexible disc media for use with HP 9153A, 9133H and 9133L disc drives.		59972C #630	N/C
Must specify media option #022 or #630. Must supply computer/ID module serial number and number of original 59972 software purchase. 59974J operating software is required.	Upgrade of Sequencing Software Upgrades existing 59972A/B Sequencing software to 59972C Sequencing software. Requires 1.2 MByte RAM.		59972C #800	
Must specify media option #022 or #630. Must supply order number of original 59972C software purchase.	Repeat Copy of Sequencing Software Provides a repeat copy of 59972C Sequencing software for customers who have purchased 59972C software for another system. Installation is not included.		59972R	
	CS-80 Tape Media Option Provides back-up copy of 59972R software on CS-80 tape media for use with HP 7946A and 7914P disc drives and 9144A tape drives.	-	59972R #022	N/C
	3.5" Disc Media Option Provides back-up copy of 59972R software on 3.5" flexible disc media for use with HP 9153A, 9133H and 9133L disc drives.		59972R #630	N/C

Enhancement Software, cont'd.

Notes	Description	~	Order	Price
	3.5" Disc Media Option Provides back-up copy of 59971R software on 3.5" flexible disc media for use with HP 9153A, 9133H and 9133L disc drives.		59971R #630	N/C
Must specify media option #22 or #630. Must supply computer/ID serial number and order number of original 59971B software purchase.	Repeat Copy of Colorview Software Upgrade Provides repeat copy of Colorview software upgrade for existing 59971 software.	_	59971R #800	
Not compatible with PBM. Non-disclosure agreement required. Must specify media option #022 or #630.	NBS Library Revision E NBS mass spectral library containing over 38,000 compounds and 11 subsets. Ten most significant mass peaks format.		59973A	
	CS-80 Tape Media Option Provides back-up copy of 59973A software on CS-80 tape media for use with HP 7946A and 7914P disc drives and 9144A tape drives.		59973A #022	N/C
1	3.5" Disc Media Option Provides back-up copy of 59973C software on 3.5" flexible disc media for use with HP 9153A, 9133H and 9133L disc drives.		59973A #630	N/C
Requires 59974J software, at least 11 MBytes of disc space not including subsets, and at least 1.2 MBytes RAM. HP 310 computers with 1 MByte RAM	PBM Search/NBS Library Provides PBM library search software with parametric retrieval capabilities and the NBS/NIH/EPA/MSDC Data Base-1 containing 42,261 compounds.		59973B	
(59970C #120 and #140 sold before January 1987) require at least an additional 256 KByte RAM board, P/N 98256A. Non- disclosure agreement is required. Must specify media option #022	CS-80 Tape Media Option Provides back-up copy of 59973B software on CS-80 tape media for use with HP 7946A and 7914P disc drives and 9144A tape drives.	1	59973B #022	N/C
or #630.	3.5" Disc Media Option Provides back-up copy of 59973B software on 3.5" flexible disc media for use with HP 9153A, 9133H and 9133L disc drives.		59973B #630	N/C
Requires 59974J software, at least 11 MBytes of disc space not including subsets, and at least 1.2 MBytes RAM. HP 310 computers with 1 MByte RAM (59970C #120 and #140 sold before January 1987) require at least an additional 256 KByte RAM board, P/N 98256A. Non- disclosure agreement is required Must specify media option #022 or #630.			59973B #800	

HP 59970C ChemStation Overview

100



Typical System Configurations



HP 59970C ChemStation Overview







For more information, call your local HP sales office or call one of these regional offices: USA: 2 Choke Cherry Road, Rockville, MD 20850, (301) 644-5800; 1200 East Diehl Road, Naperville, IL 60566, (312) 357-8800; 2000 South Park Place, P.O. Box 105005, Atlanta, GA 30346, (404) 955-1500; Neely Sales Region, 5161 Lankershim Boulevard, North Hollywood, CA 91604, (818) 509-2300 • IN EUROPE: P.O. Box CH-1217, Meyrin 2, Geneva, Switzerland, (022) 83 81 11 • IN JAPAN: Yokogawa Electric Corporation, 9-32, Naka-cho, 2-chome, Musashino-Shi, Tokyo 180, Japan (0422)55-0138 • IN CANADA: 6877 Goreway Drive, Mississauga, Ontario, L4V 1M8, (416) 678-9430 • IN AUSTRALIA: 17-23 Talavera Road, North Ryde, N.S.W. 2113, 888-4444 • ELSEWHERE IN THE WORLD: Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, CA 94304, (415) 857-5037.

Publication No. 23-5954-8158

(2/87) Printed in U.S.A.