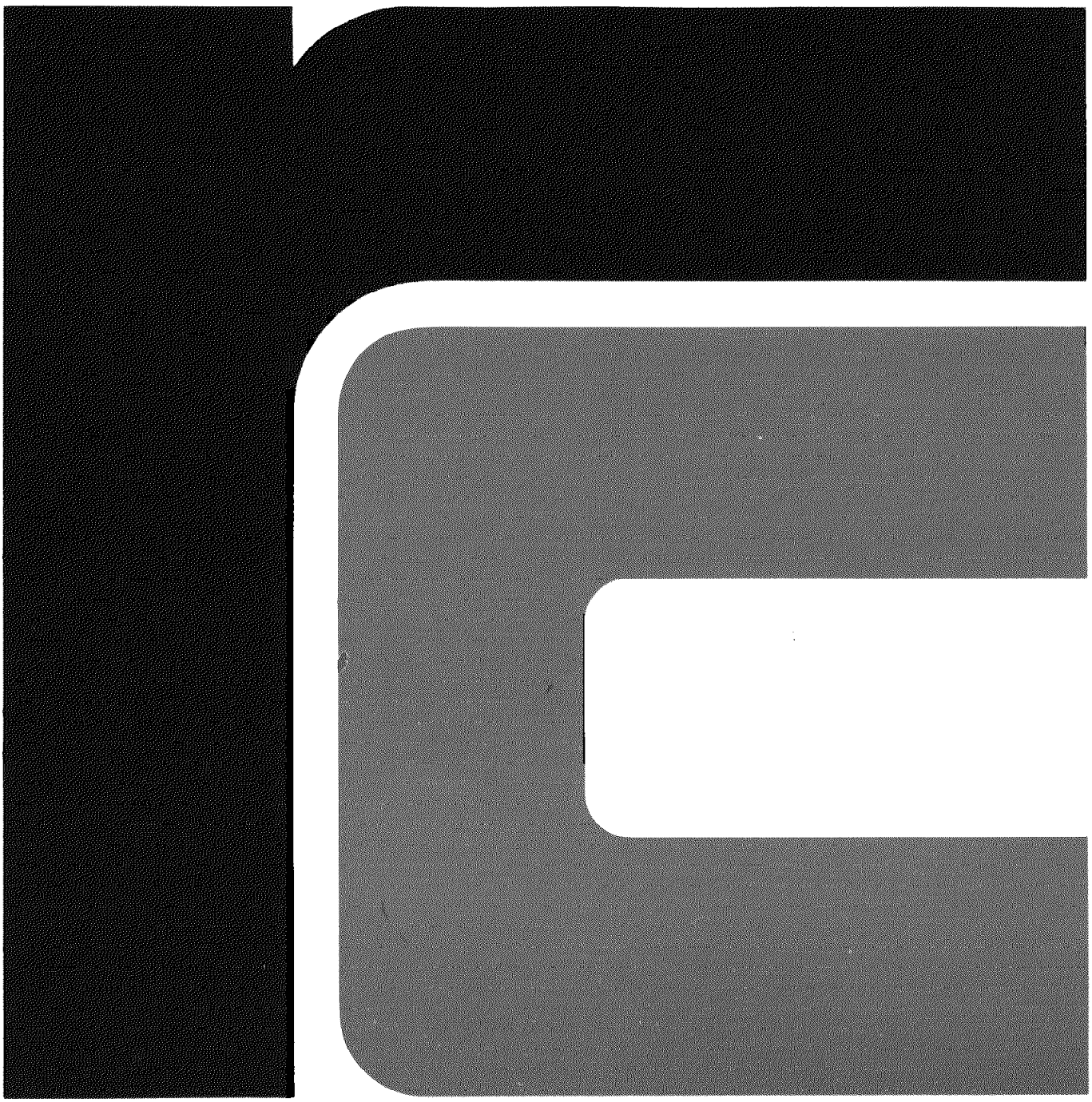
Revision 3, September 1975

hardware catalog



3600

The technical information in this document, while correct at the time of publication, is liable to change without notice.

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INTRODUCTION

This catalog presents the RC 3600 line of equipment modules. For each module performance and environmental specifications are given. Each module type description is also accompanied by a diagram that specifies the components of the module (in green), its equipment prerequisites (in red), and alternative modules (in blue).

The module descriptions are designed to allow the reader to conceptualize an RC 3600 configuration that can solve given problems within the constraints imposed by space, heat dissipation, power requirements, and other environmental conditions.

MAIN RC SALES OFFICES

	Mailing Address	Telephone Number
AUSTRIA	RC SCANIPS Computer Handelgesellschaft mbH Obersteinergasse 11/2/1 1190 Vienna	(0222) 36 21 41
DENMARK	A/S Regnecentralen Hovedvejen 9 2600 Glostrup	(02) 96 53 66
FINLAND	OY RC SCANIPS AB Mustalahdentie 4 00960 Helsinki 96	90-31 64 00
FRANCE	SORED S.a.r.l. 5a 13, Rue des Suisses 92003 Nanterre	204–2800/4755
HOLLAND	Regnecentralen (Nederland) B.V. Konigslaan 200 Rotterdam 3014	10-21 62 44
HONG KONG	Dataprep (Holdings) Ltd. Block B, 14th Floor Watsons Estate, North Point	(05) 71 72 31
NORWAY	RC AS SCANIPS Treschowsgate 2B Oslo 4	(02) 15 34 90
SWEDEN	RC SCANIPS AB Box 23058 Sveavägen 159 104 35 Stockholm 23	(08) 34 91 55
UNITED KINGDOM	RC Regnecentralen Ltd. 21 Cork Street London W1X 1HB	01-439 93 46
WEST GERMANY	RC GIER Electronics GmbH Vahrenwalder Strasse 221A 3000 Hannover	(0511) 63 40 11

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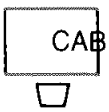

CABINETS AND ACCESSORIES

LIST OF RC 3600 MODULES BY RC NUMBER

LIST OF RC 3600 FEATURES AND MODULES BY F NUMBER

F 304	64 ch Modified PL1 Print Drum Feature	5.2
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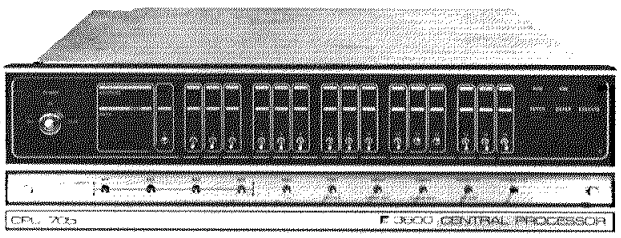
F 422	96 ch RC Standard Print Drum Feature	5.3
F 423	64 ch ASCII Print Drum Feature	5.3
F 424	64 ch Modified PL1 Print Drum Feature	5.3
F 425	64 ch Hungarian Print Drum Feature	5.3
F 426	96 ch Cyrillic Print Drum Feature	5.3

RC 3600 HARDWARE MODULES

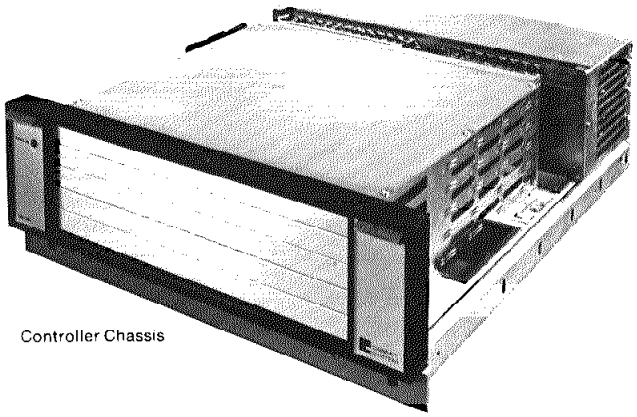
RC 3601 D CENTRAL UNIT

MEMORY MODULES

PROGRAM LOAD FEATURES



Processing Unit



Controller Chassis

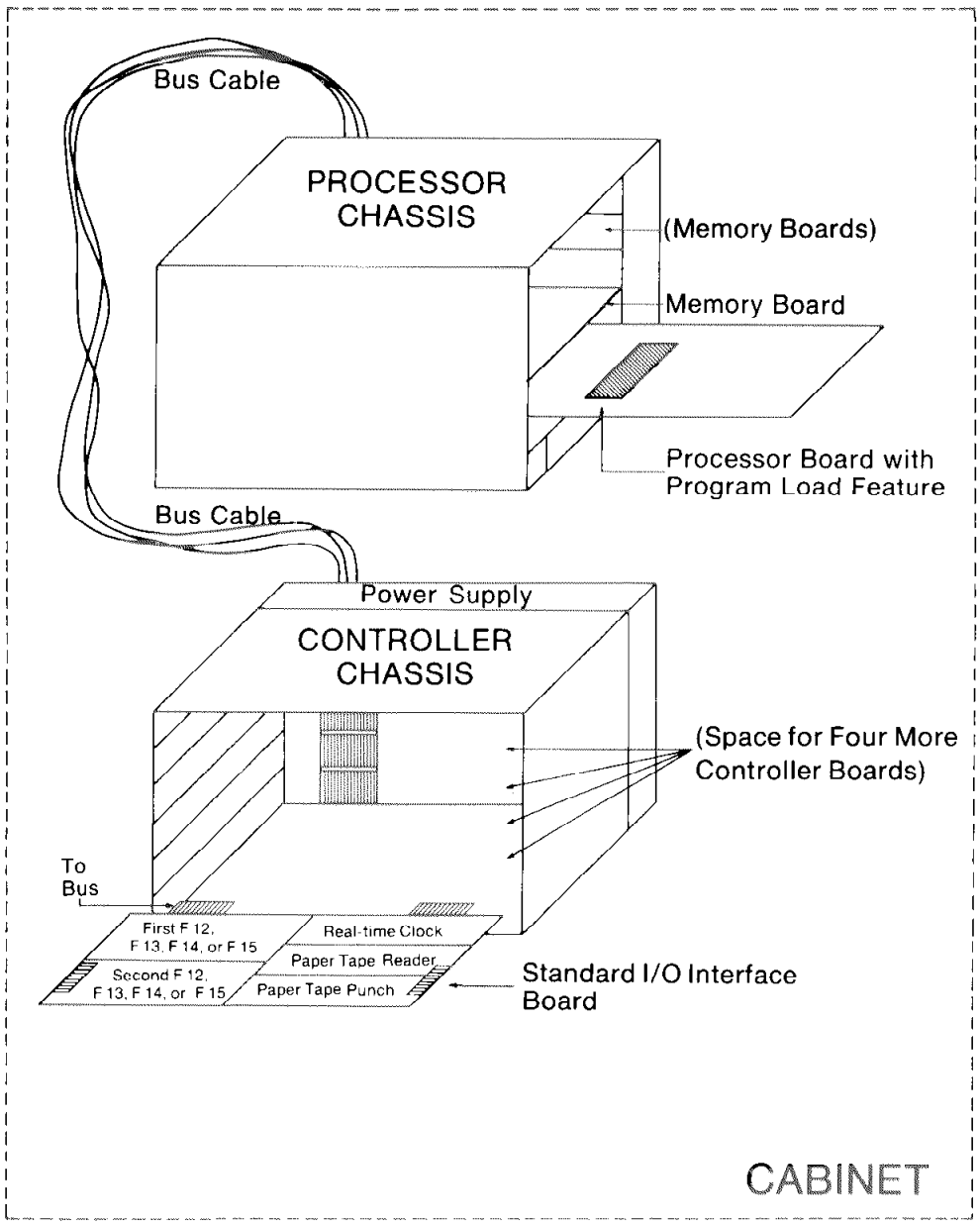
The RC 3601 D Central Unit consists of the processing unit – including chassis, power supply, and space for memory expansion up to 64 K bytes (that is, up to a maximum of three memory boards) – and a controller chassis with its separate power supply, a standard I/O interface board, four slots for other controller boards, and an I/O bus cable connecting it to the processing unit.

When more than four controller boards are needed, one or more F 09 Additional Controller Chassis may be connected to the first controller chassis.

SPECIFICATIONS

Memory Cycle Time	0.8 or 1.0 microseconds per 16 bit word, depending on the memory modules selected
Memory Modules	RC 3606 D 32 K Bytes, 1.0 microsecond cycle time RC 3607 D 16 K Bytes, 0.8 microsecond cycle time
Memory Capacity	16 K Bytes (1 × RC 3607 D) 32 K Bytes (1 × RC 3606 D or 2 × RC 3607 D) 48 K Bytes (1 × RC 3606 D + 1 × RC 3607 D or 3 × RC 3607 D) 64 K Bytes (2 × RC 3606 D or 1 × RC 3606 D + 2 × RC 3607 D)
Max. DMA Transfer Rate	1.0 M Bytes per second
Standard Features	Real-time Clock Power Monitor Automatic Restart Automatic Program Load
Program Load Features	F 01 D 9 Track Magnetic Tape F 02 D 8 Channel Paper Tape F 03 D 80 Column Punched Cards (for RC 3671 C or RC 3672 C) F 04 D Flexible Disc F 05 D Disc Cartridge
Notes	The Program Load Features allow automatic loading of the operating system to core from the load device. Note that one and only one of these features must be specified with any RC 3600 system. The system must also include the appropriate device for this purpose, as well as either an F 11 Operator Control Panel or an F 19 Power and Autoload Panel.
Optional Feature	F 09 Additional Controller Chassis

CENTRAL AND MEMORY UNITS



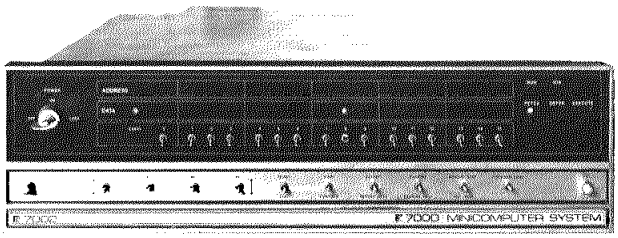
- The unit comprises these elements: processing unit, controller chassis, and I/O bus cable.
- The unit presupposes these elements: at least one memory board (RC 3606 D or RC 3607 D) and any cabinet.

SPECIFICATIONS

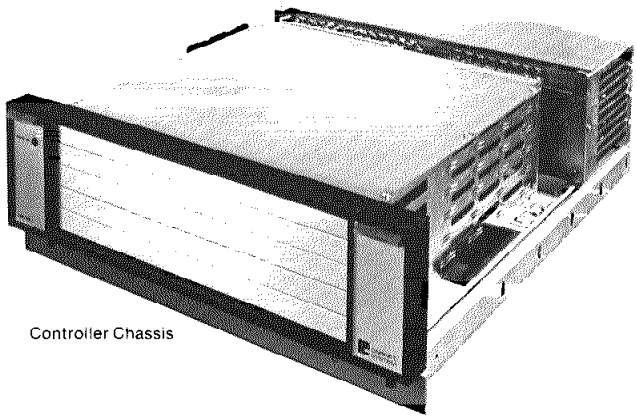
Ambient Temperature	10–40 °C (50–104 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	750 W maximum, 645 KCAL/h, 2560 BTU/h
Dimensions	
Height	31.1 cm (12 1/4 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	40 kg (88 lbs)
Mounting	Any cabinet

RC 3601 C CENTRAL UNIT

MEMORY MODULES
PROGRAM LOAD FEATURES



Processing Unit



Controller Chassis

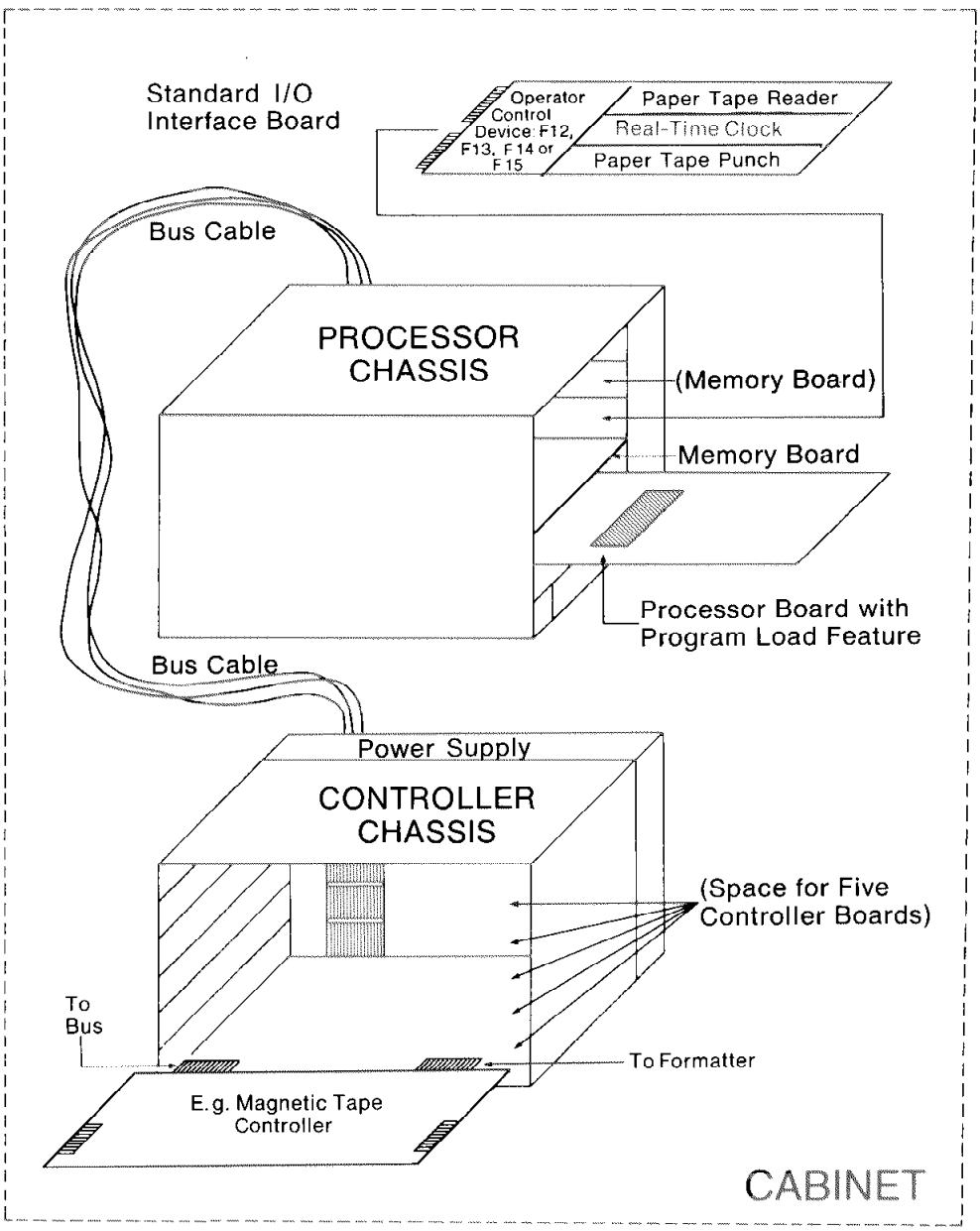
The RC 3601 C Central Unit consists of the processing unit, including chassis, standard I/O interface board, power supply, and space for memory expansion up to 64 K bytes. It also includes the controller chassis, with its separate power supply and five slots for controller boards, and an I/O bus cable connecting it to the processing unit.

There is space for only two memory boards. When more than five controller boards are needed, one or more F 09 Additional Controller Chassis may be connected to the first controller chassis.

SPECIFICATIONS

Memory Cycle Time	1.2 microseconds per 16 bit word
Memory Capacity	16 K Bytes (1 × RC 3607)
	32 K Bytes (1 × RC 3606)
	48 K Bytes (1 × RC 3606 + 1 × RC 3607)
	64 K Bytes (2 × RC 3606)
Max. DMA Transfer Rate	1.1 M Bytes per second
Standard Features	Real-time Clock
	Power Monitor
	Automatic Restart
	Automatic Program Load
Program Load Features	F 01 9 Track Magnetic Tape
	F 02 8 Channel Paper Tape
	F 03 80 Column Punched Cards (for RC 3671C and RC 3672C)
	F 04 Flexible Disc
	F 05 Disc Cartridge
Notes	The Program Load Features allow automatic loading of the operating system to core from the load device. Note that one and only one of these features must be specified with any RC 3600 system. The system must also include the appropriate device for this purpose, as well as either an F 11 Operator Control Panel or an F 19 Power and Autoload Panel.
Optional Feature	F 09 Additional Controller Chassis

CENTRAL AND MEMORY UNITS

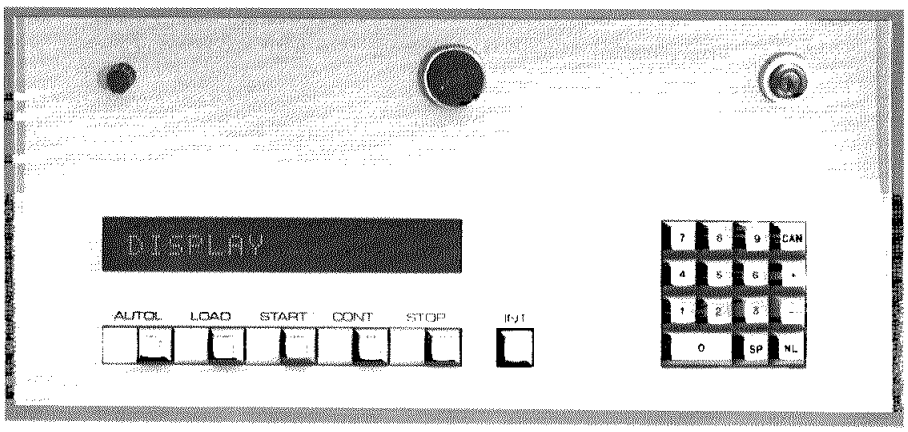


- The unit comprises these elements: processing unit, controller chassis, and I/O bus cable.
- The unit presupposes these elements: at least one memory board (RC 3606 or RC 3607) and any cabinet.

SPECIFICATIONS

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	750 W maximum, 645 KCAL/h, 2560 BTU/h
Dimensions	
Height	31.1 cm (12¼ inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	40 kg (88 lbs)
Mounting	Any cabinet

F 11 OPERATOR CONTROL PANEL

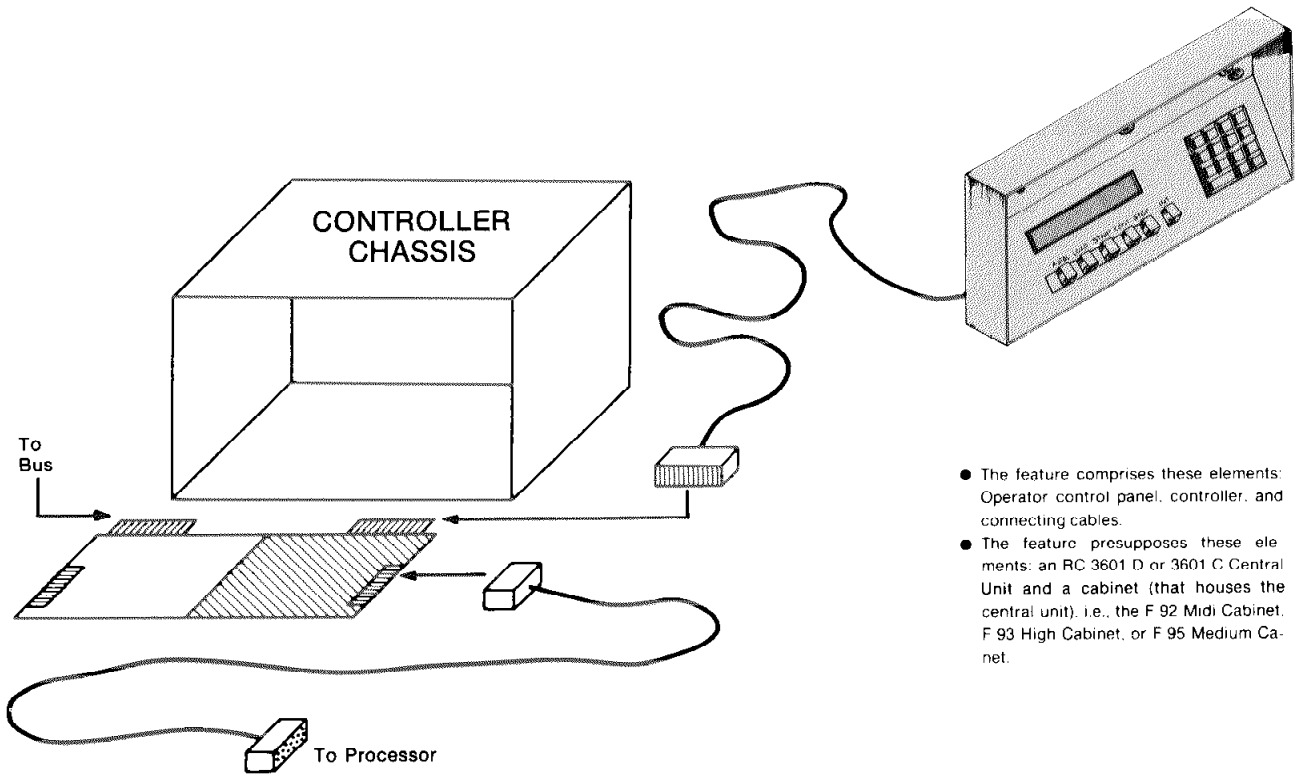


The F 11 Operator Control Panel provides all necessary facilities for operation of the system (with RC 3601 D or RC 3601 C Central Unit), including communication between the operator and the job under execution. These facilities are provided by means of a 16-character display, six function buttons, five indicators, a numeric keyboard, audio alarm, and a power key.

SPECIFICATIONS

Line Display	
Display Type	Gas discharge dot matrix
Character Repertoire	64 character ASCII (5×7)
Display Length	16 characters, 18 cm (7 inches)
Character Height	1 cm (3/8 inch)
Keyboard	
No. of Keys	15
Repertoire	0 to 9, +, −, CAN, NL, SP
Function Buttons	AUTOLOAD, LOAD, START, CONT, STOP, INT
Indicators	AUTOLOAD, LOAD, START, CONT, STOP
Other Features	POWER KEY, AUDIO ALARM with volume control.

CONSOLE DEVICES

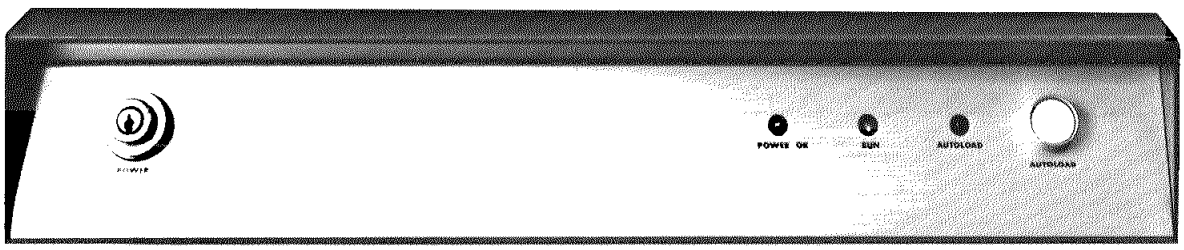


- The feature comprises these elements: Operator control panel, controller, and connecting cables.
- The feature presupposes these elements: an RC 3601 D or 3601 C Central Unit and a cabinet (that houses the central unit), i.e., the F 92 Midi Cabinet, F 93 High Cabinet, or F 95 Medium Cabinet.

SPECIFICATIONS

Ambient Temperature	10–40 °C (50–104 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	
Height	21.7 cm (8 1/2 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	4 kg (9 lbs)
Mounting	
Device	F 92 Midi Cabinet F 93 High Cabinet F 95 Medium Cabinet
Controller Board	Any slot in Controller Chassis Board shared with line printer controller
Special Remarks	For mechanical reasons an additional 4.5 cm (1 3/4 inches) of rack space must be free immediately below the Operator Control Panel. Note also that for reasons of operating convenience the Operator Control Panel should be located at a height of approximately 100 cm (40 inches) from the floor.

F 19 POWER AND AUTOLOAD PANEL

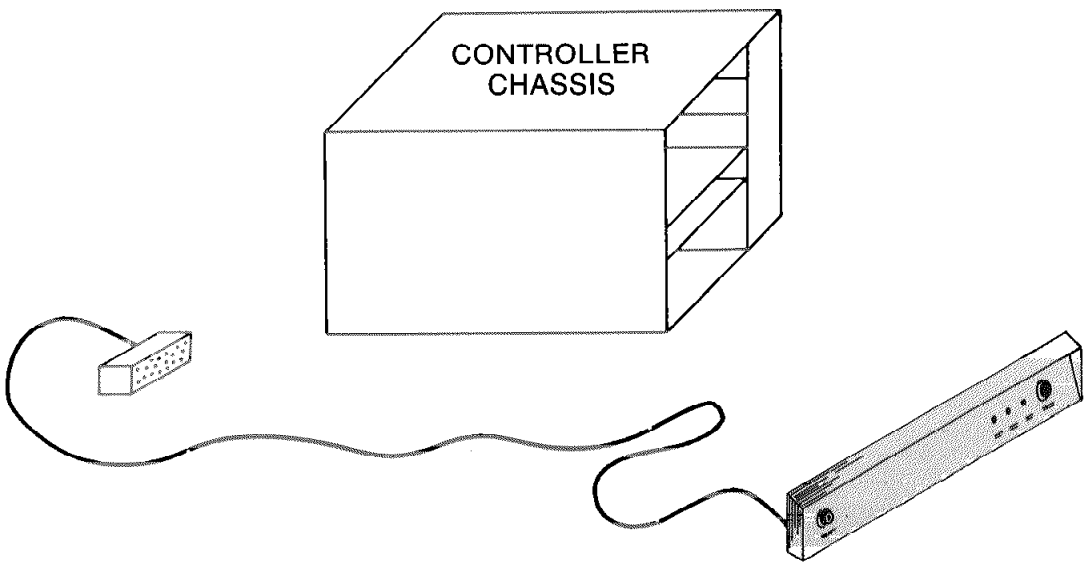


The F 19 Power and Autoload Panel provides a means of switching main power to the system and executing the autoload function. It must be used in systems that do not include the F 11 Operator Control Panel and are, therefore, operated from an F 12 KSR Teletype, an F 13 Alphanumeric Display/Keyboard, an F 14 Silent Printer/Keyboard, or an F 15 Alphanumeric Display/Keyboard. The F 19 can be used with either the RC 3601 C or RC 3601 D Central Unit.

SPECIFICATIONS

Function Button	AUTOLOAD
Indicators	POWER OK, RUN, AUTOLOAD
Other Features	POWER KEY

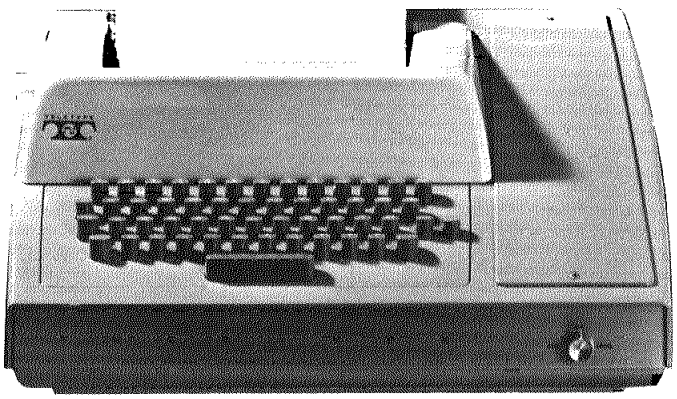
- The unit comprises the Power and Autoload Panel and connecting cable.
- The unit presupposes the RC 3601 C or RC 3601 D Central Unit.



SPECIFICATIONS

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	
Height	8.9 cm (3½ inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	1 kg (2¼ lbs)
Mounting	
Device	Any cabinet
Special Remarks	For mechanical reasons an additional 4.5 cm (1¾ inches) of rack space must be free immediately below the Power and autoload Panel.

F 12 KSR TELETYPE



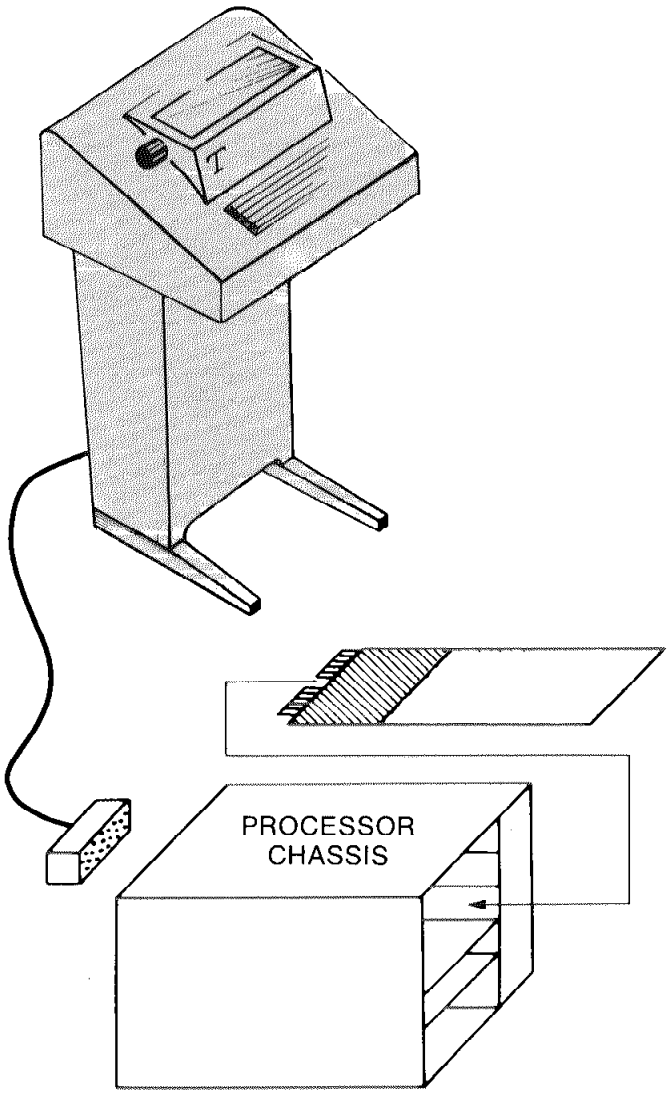
The F 12 KSR Teletype provides facilities for the operation of the system by means of a standard 54 key, 4 row typewriter keyboard and a 72 character line output to a serial 10 cps printer. Alternatives to the F 12 KSR Teletype are the F 13 Alphanumeric Display/Keyboard, the F 14 Silent Printer/Keyboard, and the F 15 Alphanumeric Display/Keyboard.

The KSR Teletype is available in two versions: the F 12 D for use with the RC 3601 D Central Unit, and the F 12 for use with the RC 3601 C Central Unit.

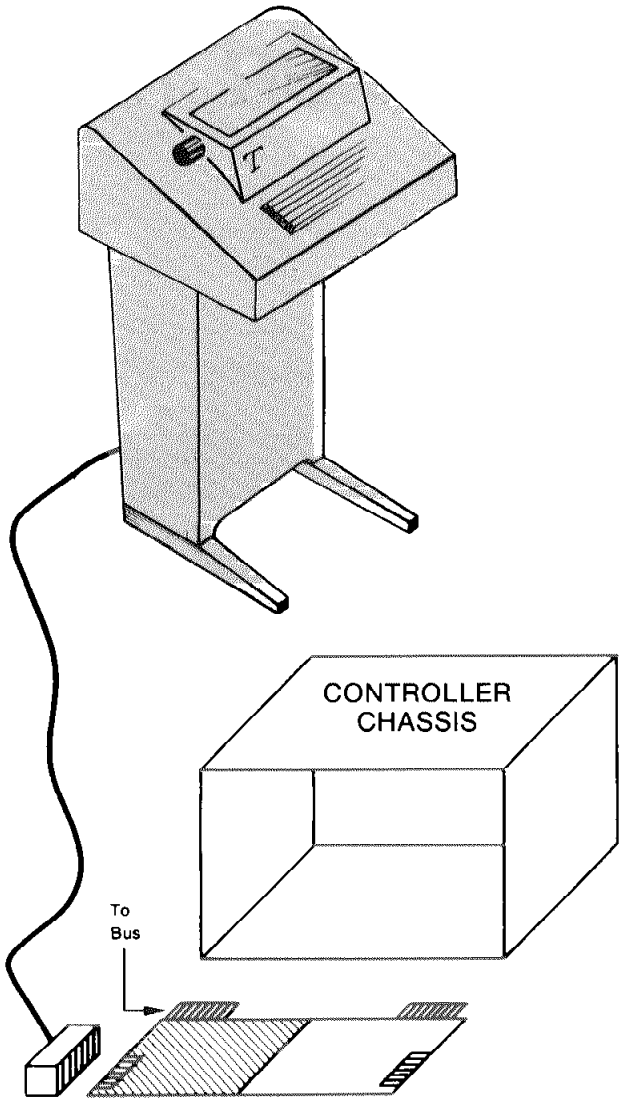
SPECIFICATIONS

Typewriter Keyboard	
No. of Keys	53 (no BACK SPACE)
Graphic Repertoire	64 character ASCII
Supplementary Keys	None
Output	
Line Length	72 characters
Paper Feed	Friction drum for 8 1/2 inch single or multiply paper
Character Spacing	10 char. per inch
Line Spacing	6 lines per inch
Speed	10 char. per second

CONSOLE DEVICES



- The F 12 feature comprises these elements: KSR Teletype, controller, and connecting cable.
- The feature presupposes these elements: RC 3601C Central Unit and – if the system does not include the F 11 Operator Control Panel – the F 19 Power and Autoload Panel.

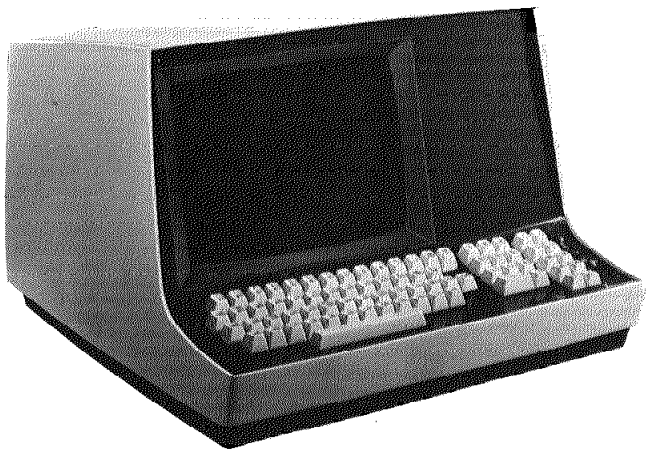


- The F 12 D feature comprises these elements: KSR Teletype, controller, and connecting cable.
- The feature presupposes these elements: RC 3601 D Central Unit and – if the system does not include the F 11 Operator Control Panel – the F 19 Power and Autoload Panel.

SPECIFICATIONS

	F 12	F 12 D
Ambient Temperature	10–40° C (50–104° F)	
Relative Humidity	20–80% (no condensation)	
Heat Dissipation	110 W, 95 KCAL/h, 375 BTU/h	
Dimensions		
Height	83 cm (32 3/8 inches)	
Width	47 cm (18 3/8 inches)	
Depth	47 cm (18 3/8 inches)	
Weight	26 kg (57 1/4 lbs)	
Mounting Device	Free standing	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C Central Unit	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

F 13 ALPHANUMERIC DISPLAY/KEYBOARD



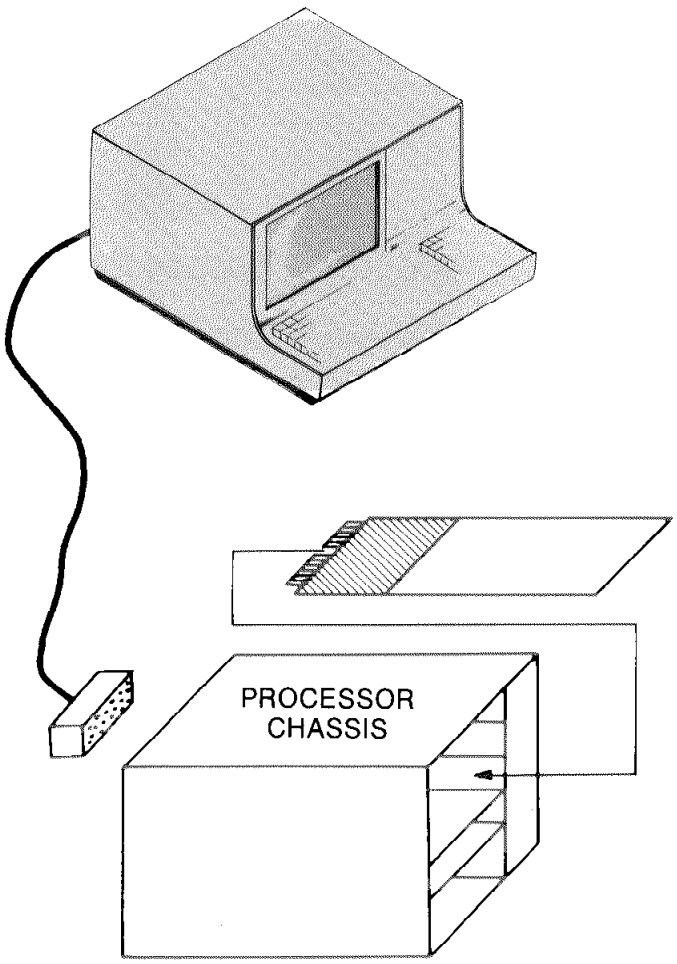
The F 13 Alphanumeric Display/Keyboard provides facilities for the operation of the system by means of a standard 54 key, 4 row typewriter keyboard and a 72 character line output to a 240 cps 1800 character display. Alternatives to the F 13 are the F 12 KSR Teletype, the F 14 Silent Printer/Keyboard, and the F 15 Alphanumeric Display/Keyboard.

The F 13 is available in two versions: the F 13 D for use with the RC 3601 D Central Unit, and the F 13 for use with the RC 3601 C Central Unit.

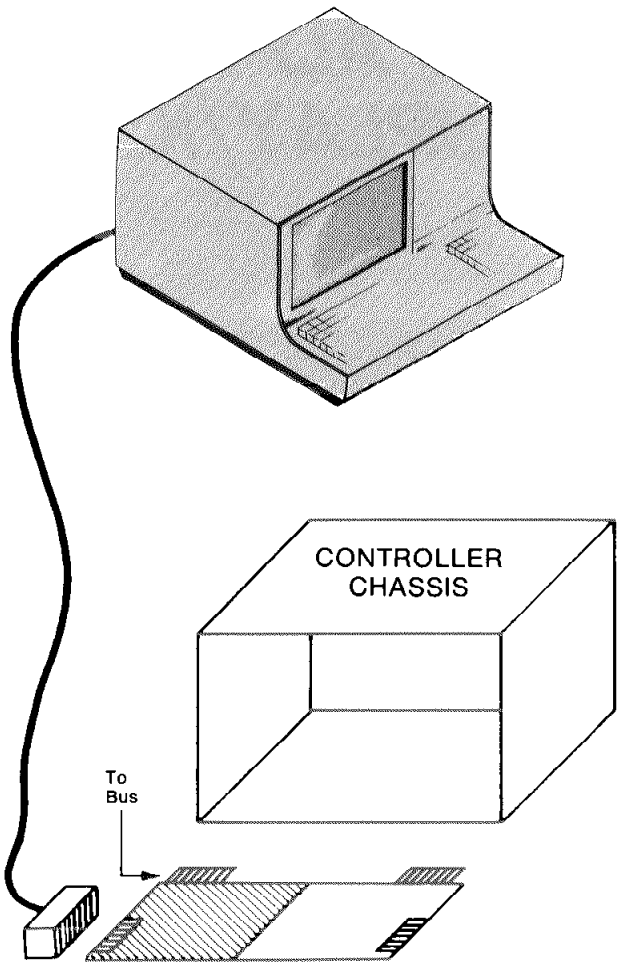
SPECIFICATIONS

Typewriter Keyboard	
No. of Keys	54
Graphic Repertoire	64 character ASCII
Supplementary Keys	Numeric "cluster"
	Cursor control keys
Output	
Line Length	72 characters
No. of Lines Displayable	25 lines
Character Spacing	11 char. per inch
Line Spacing	5 lines per inch
Speed	240 char. per second

CONSOLE DEVICES



- The F 13 comprises these elements: alphanumeric Display/Keyboard, a controller, and connecting cable.
- The feature presupposes these elements: RC 3601C Central Unit and – if the system does not include the F 11 Operator Control Panel – the F 19 Power and Autoload Panel.

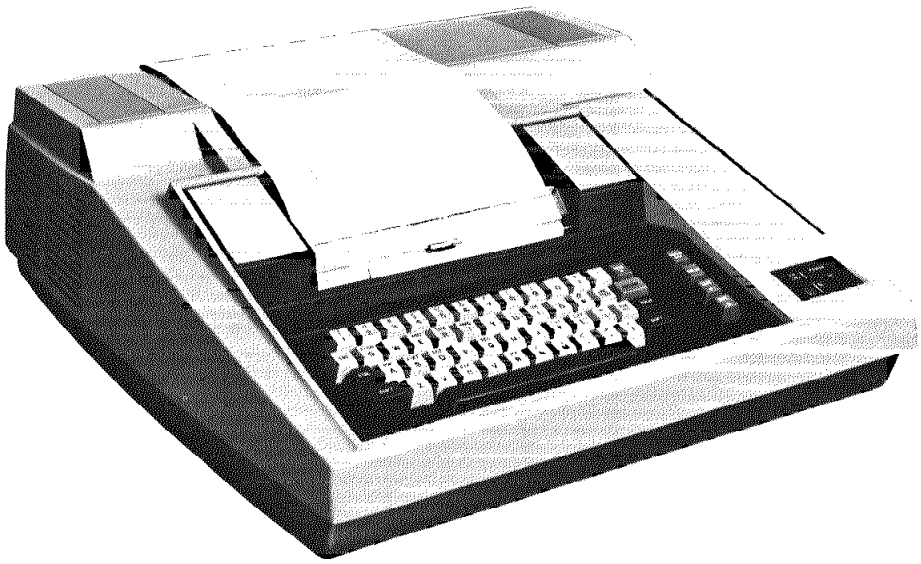


- The F 13 D comprises these elements: alphanumeric Display/Keyboard, a controller, and a connecting cable.
- The feature presupposes these elements: an RC 3601 D Central Unit and – if the system does not include the F 11 Operator Control Panel – the F 19 Power and Autoload Panel.

SPECIFICATIONS

	F 13	F 13 D
Ambient Temperature	10–40° C (50–104° F)	
Relative Humidity	20–80% (no condensation)	
Heat Dissipation	130 W, 112 KCAL/h, 4444 BTU/h	
Dimensions		
Height	32 cm (12 1/2 inches)	
Width	46 cm (18 inches)	
Depth	49.3 cm (19 1/2 inches)	
Weight	22 kg (48 1/2 lbs)	
Mounting Device	Desk top	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C Central Unit	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

F 14 SILENT PRINTER/KEYBOARD



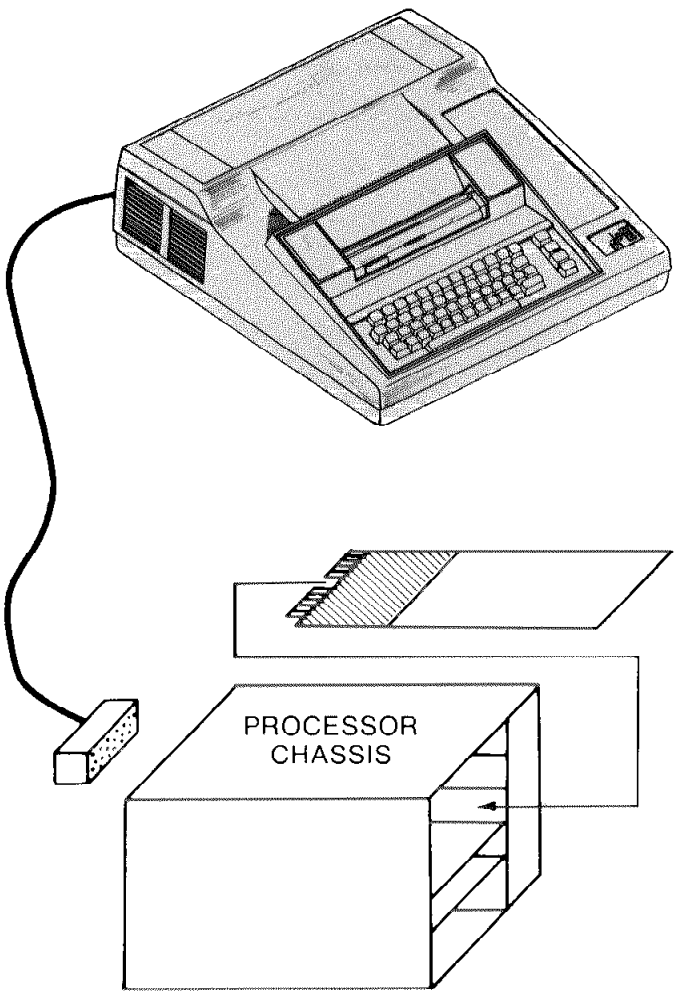
The F 14 Silent Printer/Keyboard provides facilities for the operation of the system by means of a 52 key 4 row keyboard and an 80 character line output to a 30 cps printer. The F 14 requires paper with special thermal characteristics. Alternatives to the F 14 are the F 12 KSR Teletype, the F 13 Alphanumeric Display/Keyboard, and the F 15 Alphanumeric Display/Keyboard.

The F 14 is available in two versions: the F 14 D for use with the RC 3601 D Central Unit, and the F 14 for use with RC 3601 C Central Unit.

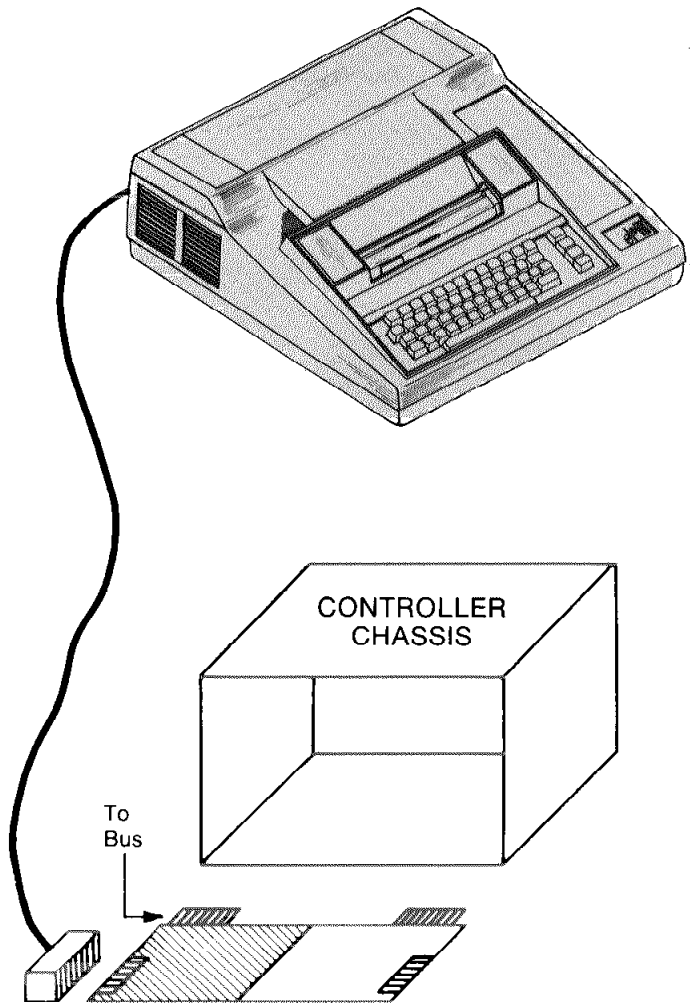
SPECIFICATIONS

Typewriter Keyboard	
No. of Keys	52
Graphic Repertoire	64 character ASCII
Supplementary Keys	4
Output	
Line Length	80 characters
Paper Feed	Friction drum for 8 1/2 inch single ply paper
Character Spacing	10 characters per inch
Line Spacing	6 lines per inch
Speed	30 cps
Note	Special paper is required.

CONSOLE DEVICES



- The F 14 comprises the Silent Printer/Keyboard, a controller, and a connecting cable.
- The feature presupposes an RC 3601C Central Unit and either the F 11 Operator Control Panel or the F 19 Power and Autoload Panel.



- The F 14 D comprises a silent Printer/Keyboard, a controller, and a connecting cable.
- The feature presupposes an RC 3601 D Central Unit and either the F 11 Operator Control Panel or the F 19 Power and Autoload Panel.

SPECIFICATIONS

	F 14	F 14 D
Ambient Temperature	10–35° C (50–95° F)	
Relative Humidity	10–90% (no condensation)	
Heat Dissipation	200 W, 172 KCAL/h, 682 BTU/h	
Dimensions		
Height	17.4 cm (6.85 inches)	
Width	53.8 cm (21.18 inches)	
Depth	49.3 cm (19.5 inches)	
Weight	17.3 kg (38 lb)	
Mounting Device	Desk top	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C Central Unit	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

F 15 ALPHANUMERIC DISPLAY/KEYBOARD

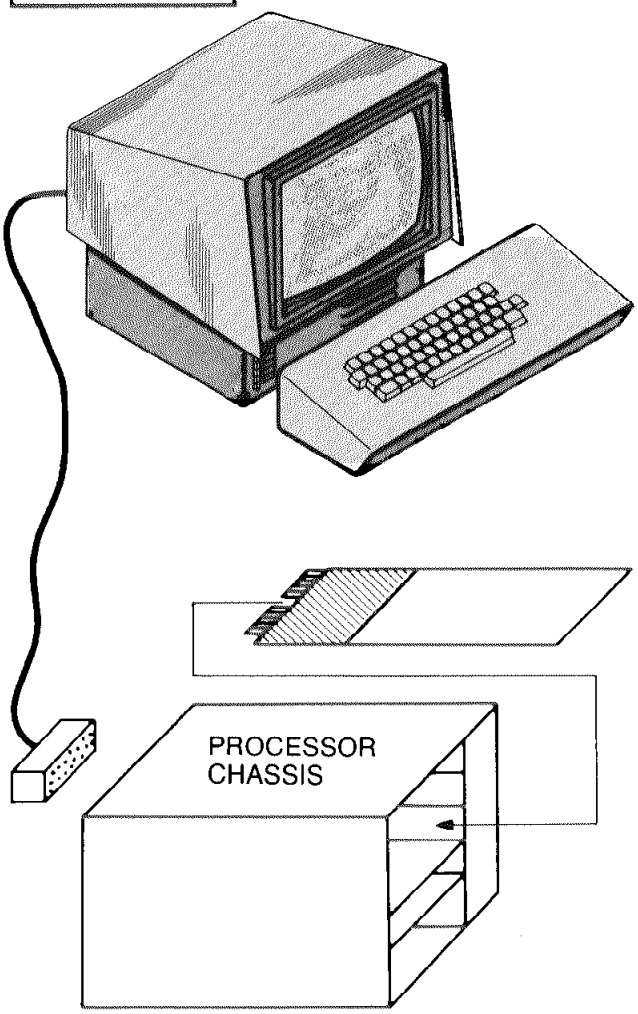
The F 15 Alphanumeric Display/Keyboard provides facilities for the operation of the system by means of a standard 52 key typewriter keyboard and an 80 character line output to a 1200 cps 1920 character display. Alternatives to the F 15 are the F 12 KSR Teletype, the F 13 Alphanumeric Display/Keyboard, and the F 14 Silent Printer/Keyboard.

The F 15 is available in two versions: the F 15 D for use with an RC 3601 D Central Unit, and the F 15 for use with an RC 3601 C Central Unit.

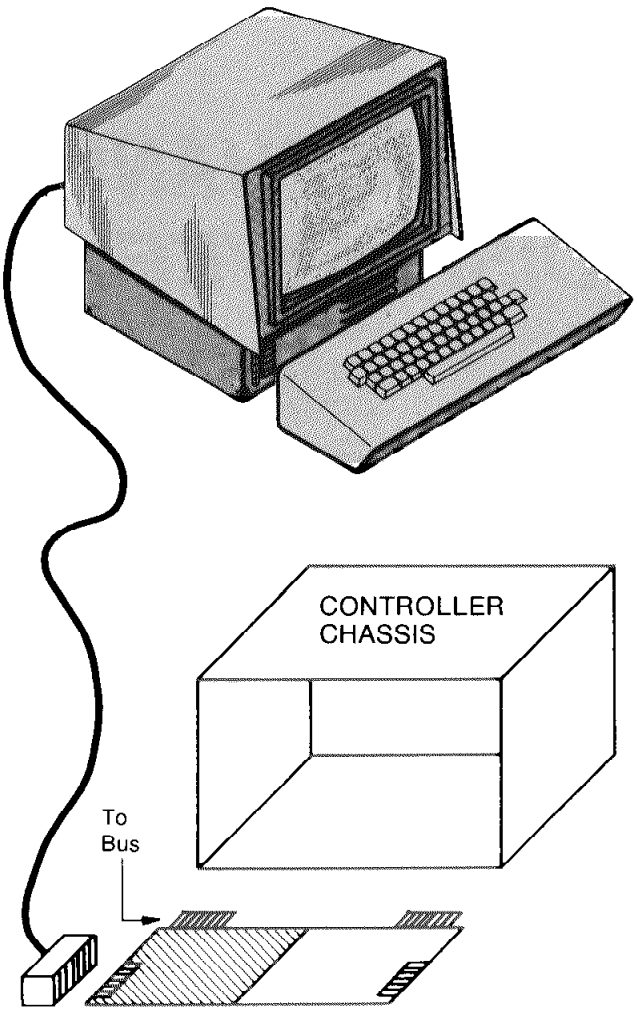
SPECIFICATIONS

Typewriter Keyboard	Separate from display
Number of Keys	52
Graphic Repertoire	64 character ASCII
Display	1920 characters
No. of Lines Displayable	24
Line Length	80 characters
Character Size	0.18 inch high by 0.09 inch wide
Speed	1200 cps

CONSOLE DEVICES



- The F 15 comprises these elements: alphanumeric Display/Keyboard, a controller, and a connecting cable.
- The feature presupposes these elements: an RC 3601 D Central Unit and – if the system does not include an F 11 Operator Control Panel – an F 19 Power and Autoload Panel.

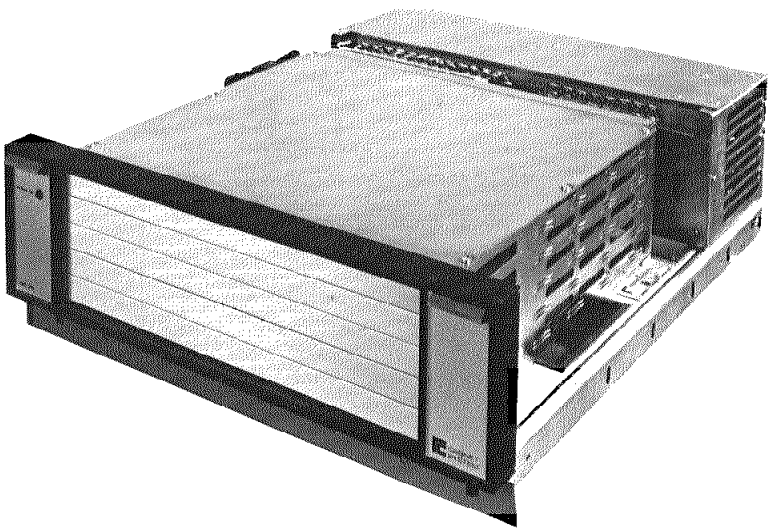


- The F 15 D comprises these elements: an alphanumeric Display/Keyboard, a controller, and a connecting cable.
- The feature presupposes these elements: an RC 3601 C Central Unit and – if the system does not include an F 11 Operator Control Panel – an F 19 Power and Autoload Panel.

SPECIFICATIONS

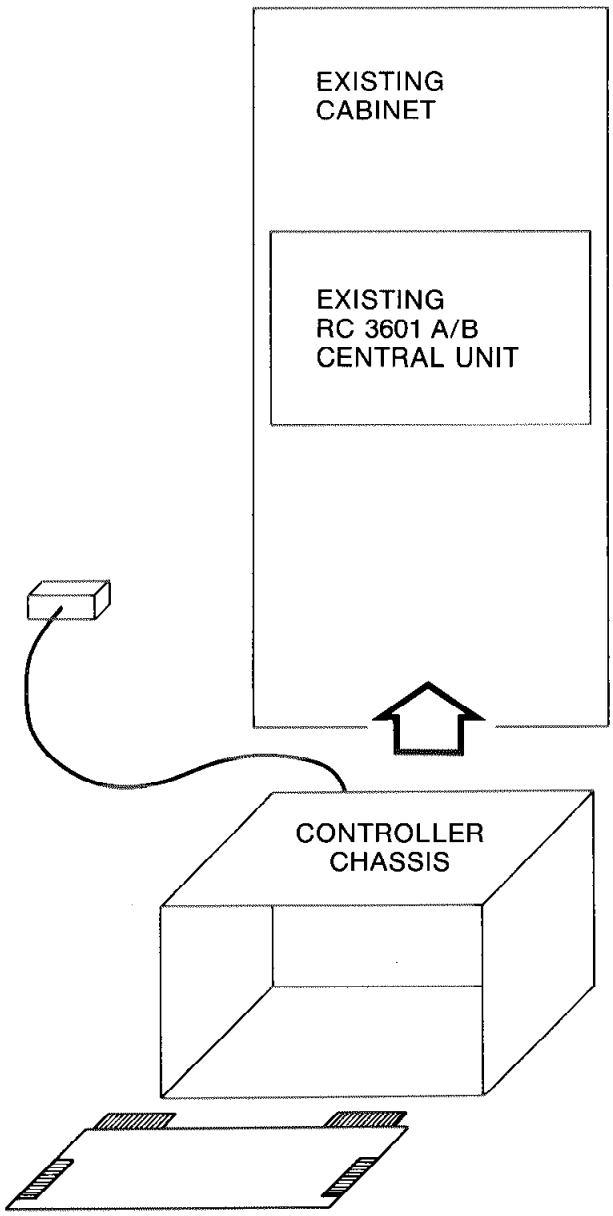
	F 15	F 15 D
Ambient Temperature	10–49° C (50–104° F)	
Relative Humidity	10–80% (no condensation)	
Heat Dissipation	150 W, 129 KCAL/h, 412 BTU/h	
Dimensions		
Display		
Height	38 cm (14.9 inches)	
Width	36 cm (14.2 inches)	
Depth	35 cm (13.8 inches)	
Keyboard		
Height	8 cm (3.2 inches)	
Width	46 cm (18.0 inches)	
Depth	21 cm (8.3 inches)	
Weight		
Display	14 kg (30.8 lbs)	
Keyboard	3.3 kg (7.26 lbs)	
Mounting Device	Desk top	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C Central Unit	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

F 110 CONTROLLER CHASSIS



This modification kit adapts a previously installed RC 3601 A or RC 3601 B Central Unit to accept any controller board designated for mounting in the Controller Chassis of the RC 3601 D or RC 3601 C Central Unit.

ADAPTORS

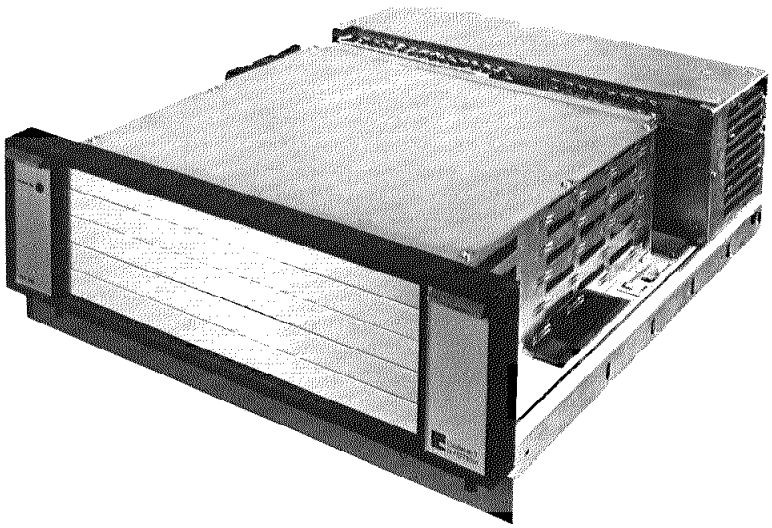


- The feature comprises a controller chassis and connecting cable to the existing central unit.
- The feature presupposes an existing RC 3601A/B Central Unit and cabinet.

SPECIFICATIONS

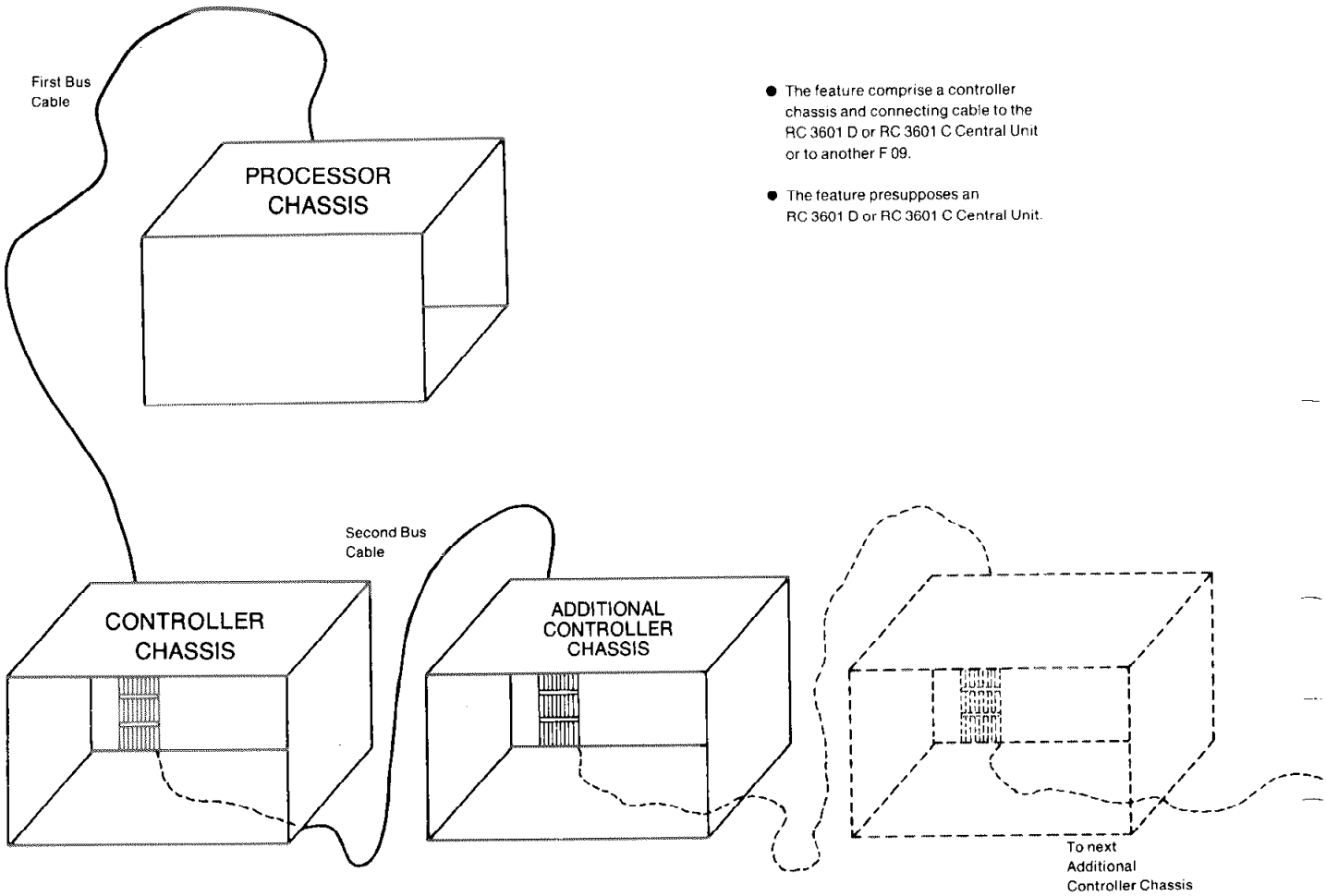
No. of Slots	4
Ambient Temperature	10–40 °C (50–104 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	400 W maximum, 344 KCAL/h, 1365 BTU/h
Dimensions	
Height	17.7 cm (7 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	22 kg (48 lbs)
Mounting	RC 3601A or RC 3601B Cabinet
Special Note	The F 110 is not required for the connection of the Operator Control Panel, any magnetic tape unit, or any line printer to the RC 3601A or RC 3601B Central Unit.

F 09 ADDITIONAL CONTROLLER CHASSIS



One or more F 09 Additional Controller Chassis may be connected to the RC 3601 D or RC 3601 C Central Unit to provide space for controller boards when more than four (for RC 3601 D) or five (for RC 3601 C) such boards are needed.

ADAPTORS

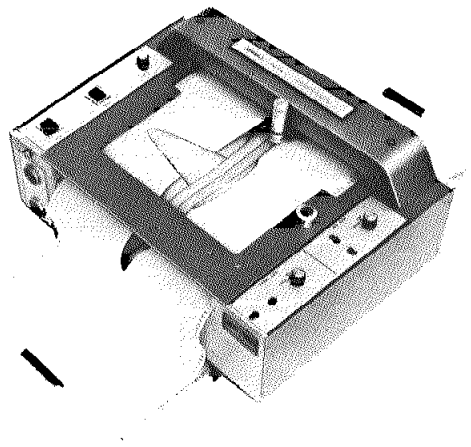


- The feature comprise a controller chassis and connecting cable to the RC 3601 D or RC 3601 C Central Unit or to another F 09.
- The feature presupposes an RC 3601 D or RC 3601 C Central Unit.

SPECIFICATIONS

No. of Slots	5
Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	400 W maximum, 344 kcal/h, 1365 BTU/h
Dimensions	
Height	17.7 cm (7 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	22 kg (48 lb)
Mounting	F 92 Midi Cabinet F 93 High Cabinet F 95 Medium Cabinet

F 71 INCREMENTAL PLOTTER ADAPTOR



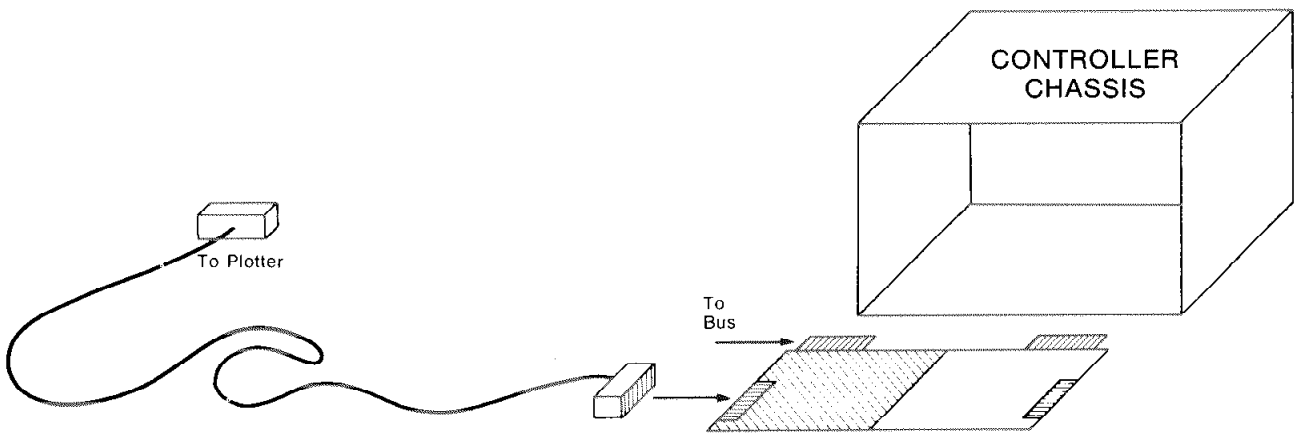
The F 71 Incremental Plotter Adaptor interfaces the system to a Calcomp 563 or 565 drum plotter or a Houston Instrument DP-1 flatbed plotter.

SPECIFICATIONS

	563	**565**	**DP-1**
Paper	30 inch, rolled	12 inch, rolled	12 inch, fan-folded
Plotting Area X-Axis Y-Axis	 120 feet (36.6 m) 28⅝ inches (72.7 cm)	 120 feet (36.6 m) 11 inches (27.9 cm)	 144 feet (43.9 m) 11 inches (27.9 cm)
Increment Size	0.01 inch (0.254 mm), 0.005 inch (0.127 mm), or 0.1 mm	0.01 inch (0.254 mm), 0.005 inch (0.127 mm), or 0.1 mm	0.01 inch (0.254 mm), 0.005 inch (0.127 mm), 0.1 mm, or 0.25 mm
Speed	200 steps per second (0.01 inch) 300 steps per second (0.005 inch or 0.1 mm)	300 steps per second	300 steps per second

ADAPTORS

- The feature comprises a controller and connecting cable to the plotter.
- The feature presupposes an RC 3601 D or RC 3601 C Central Unit.

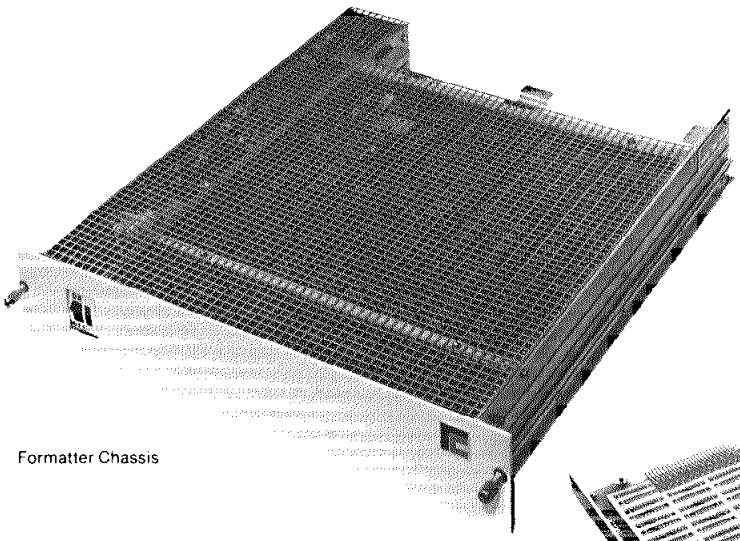


SPECIFICATIONS

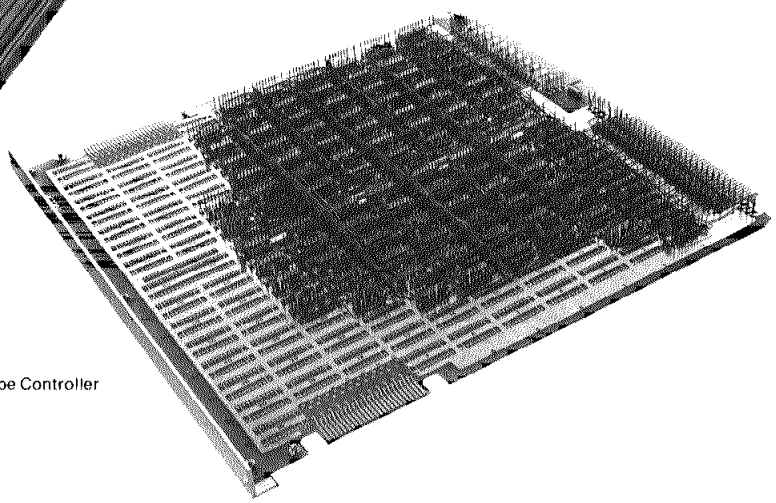
	F 71	563	565	DP-1
Ambient Temperature	10–40°C (50–104°F)	10–40°C (50–104°F)		
Relative Humidity	20–80%	20–80%		
Heat Dissipation	Included in Central Unit figures	350 W, 301 KCAL/h, 1195 BTU/h		
Dimensions Height Width Depth	Standard controller board	25.4 cm (10 inches) 101.6 cm (40 inches) 38.1 cm (15 inches)	25.4 cm (10 inches) 45.7 cm (18 inches) 38.1 cm (15 inches)	25.4 cm (10 inches) 45.7 cm (18 inches) 76.2 cm (30 inches)
Weight	Standard controller board	24 kg (53 lbs)	15 kg (33 lbs)	18 kg (40 lbs)
Mounting	Any slot in Controller Chassis Board shared with RC 3625 controller	Desk top		

MAGNETIC TAPE

RC 3685
MAGNETIC TAPE CHANNEL
FORMATTER FEATURES



Formatter Chassis



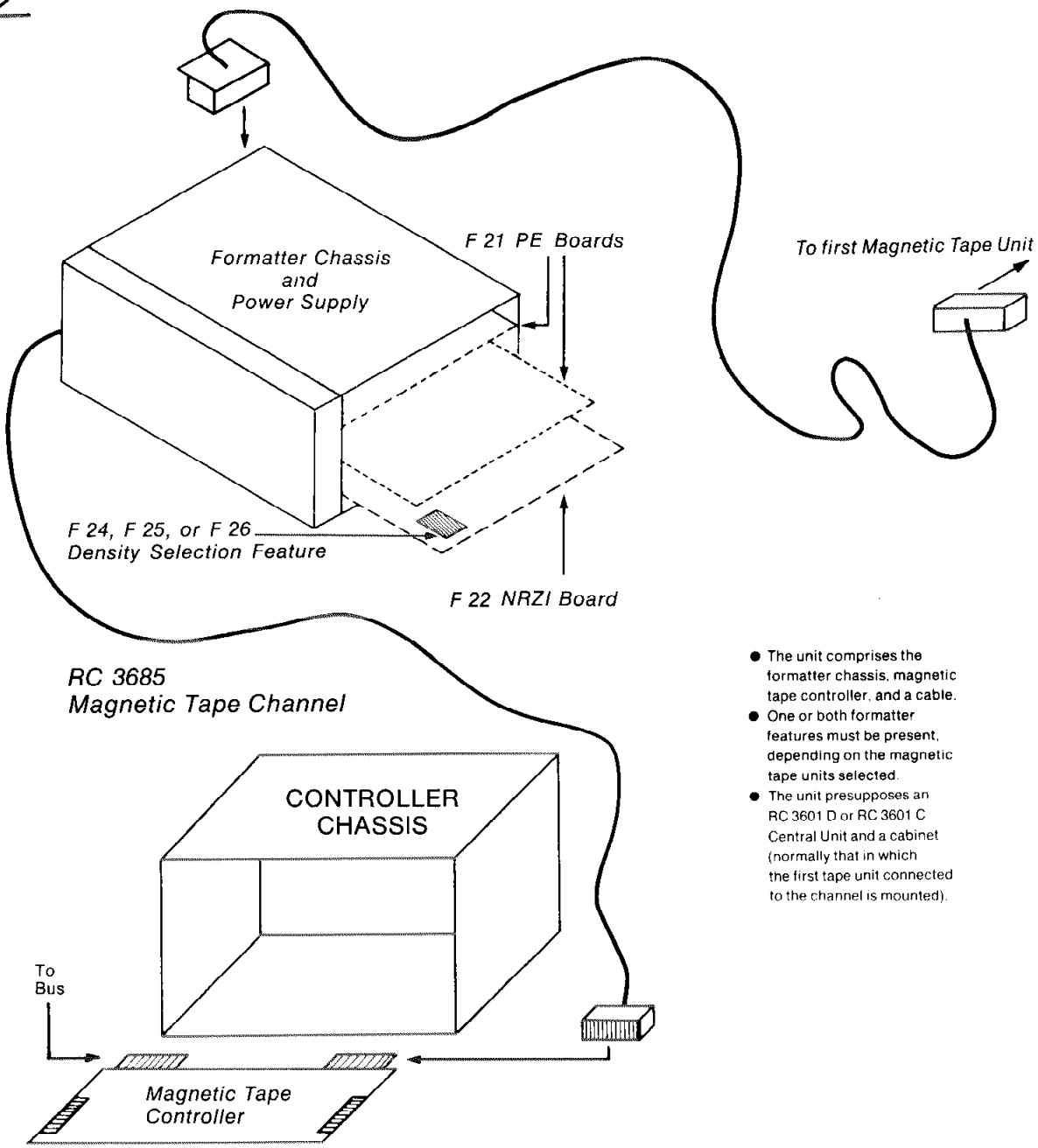
Magnetic Tape Controller

Up to four magnetic tape units, in any combination of the available "S" Series types, may be linked to the system via an RC 3685 Magnetic Tape Channel. Optional formatter and density selection features may be specified as necessary.

SPECIFICATIONS

Data Transfer	By direct memory access
Formatter Features	F 21 Phase Encoding
	F 22 NRZI
	Either or both may be specified as required.
7 Track Density Selection	F 24 200/800 bpi Dual Density
	F 25 556/800 bpi Dual Density
	F 26 200/556 bpi Dual Density
	Only one of these features may be specified.
Special Note	F 26 cannot be specified if any 9 track NRZI (RC 3620S) or dual-density (RC 3615S) tape unit is connected to the same magnetic tape channel

MAGNETIC TAPE



- The unit comprises the formatter chassis, magnetic tape controller, and a cable.
- One or both formatter features must be present, depending on the magnetic tape units selected.
- The unit presupposes an RC 3601 D or RC 3601 C Central Unit and a cabinet (normally that in which the first tape unit connected to the channel is mounted).

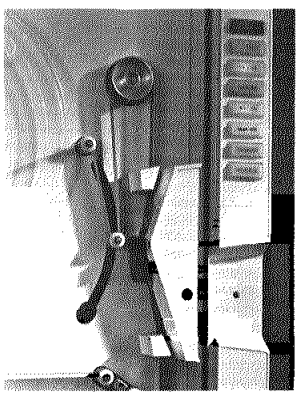
SPECIFICATIONS

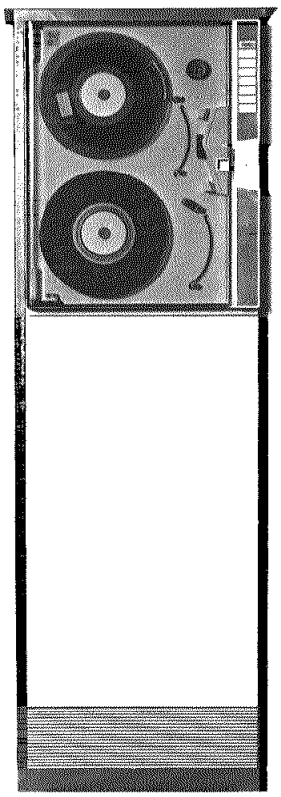
Ambient Temperature	16–32 °C (60–90 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation, Formatter	100 W, 86 KCAL/h, 341 BTU/h maximum
Dimensions, Formatter Chassis	
Height	8.9 cm (3½ inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight, Formatter Chassis	12 kg (26½ lbs)
Mounting	
Formatter Chassis	Normally in cabinet of first magnetic tape unit specified
Controller Board	Any slot in Controller Chassis

"S" SERIES MAGNETIC TAPE UNITS

Available units in this series are as follows:

RC 3610 S 9 Track 1600 bpi MTU
RC 3615 S 9 Track Dual-Density MTU
RC 3620 S 9 Track 800 bpi MTU
RC 3690 S 7 Track Dual-Density MTU



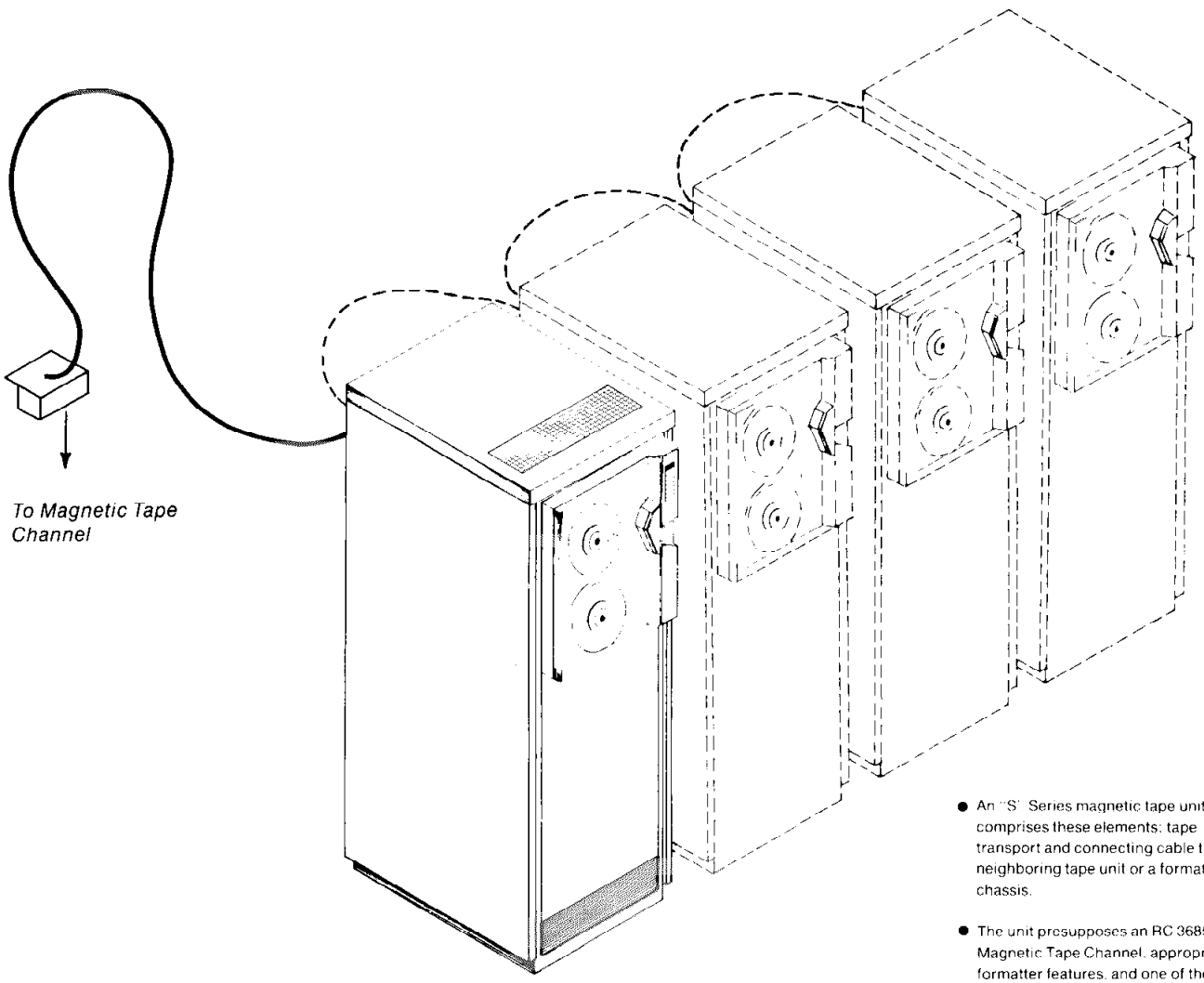


"S" Series Magnetic Tape Unit mounted in an F 93 High Cabinet.

SPECIFICATIONS

	RC 3610S	RC 3615S	RC 3620S	RC 3690S
Read/Write Head	9 track 1600 bpi, read after write	9 track 800/1600 bpi read after write	9 track 800 bpi, read after write	7 track 800 bpi, read after write
Read/Write Electronics	Phase encoding, IBM and ANSI compatible	Phase encoding, IBM and ANSI compatible NRZI, IBM compatible	NRZI, IBM compatible	NRZI, IBM compatible
Formatter Prerequisites	F 21	F 21 and F 22	F 22	F 22 and one of the following: F 24, F 25, F 26
Tape Velocity	25 inches per second			
Start/Stop Time	14.4 milliseconds			
Data Transfer Rate	40,000 bytes per second	40,000/20,000 bytes per second	20,000 bytes per second	20,000, 13,900, or 5,000 char. per second
Rewind Speed	150 inches per second			
Tape Specification	½ inch, 1.5 mil computer grade			
Max. Reel Diameter	10½ inches			

MAGNETIC TAPE



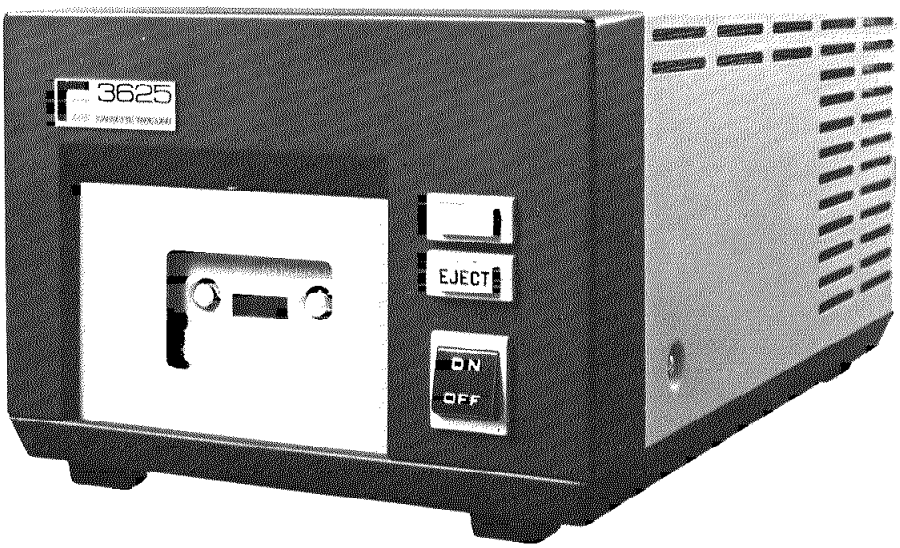
- An "S" Series magnetic tape unit comprises these elements: tape transport and connecting cable to a neighboring tape unit or a formatter chassis.
- The unit presupposes an RC 3685 Magnetic Tape Channel, appropriate formatter features, and one of the following cabinets: F 92 Midi Cabinet, F 93 High Cabinet, or F 95 Medium Cabinet.

SPECIFICATIONS (All "S" SERIES UNITS)

Ambient Temperature	16–32° C (60–90° F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	400 W, 344 KCAL/h, 1365 BTU/h
Dimensions	
Height	61 cm (24 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	39.5 kg (85 lbs)
Mounting	For cabinet mounting
Special Remark	An RC 3610 S, RC 3615 S, RC 3620 S, or RC 3690 S may also be connected to an existing RC 3601 A Central Unit via an existing "S" Series Magnetic Tape Unit.

MAGNETIC TAPE

RC 3625 CASSETTE TAPE UNIT

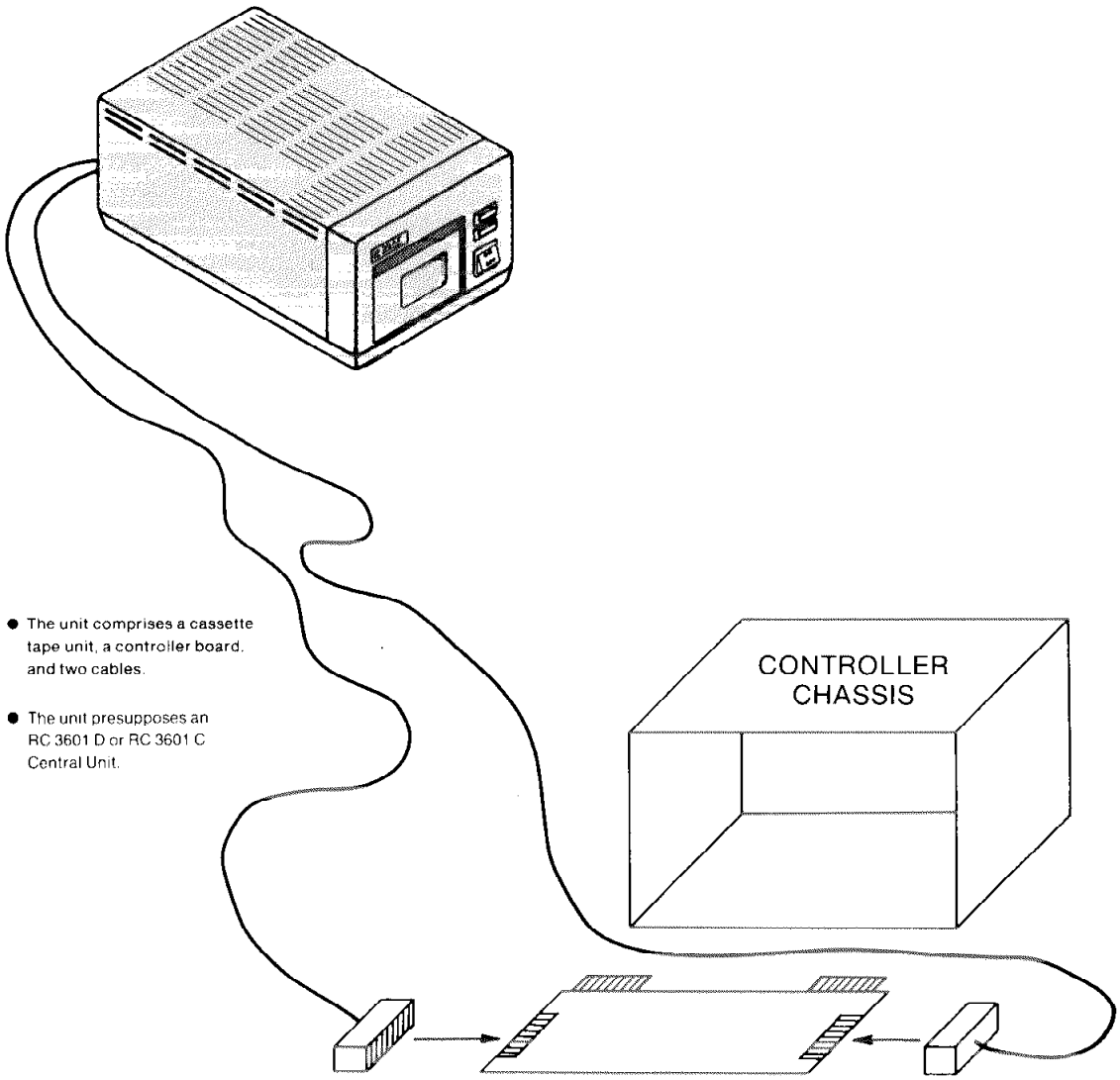


The RC 3625 Cassette Tape Unit reads from, and writes to, cassette tapes according to ECMA-34 Standard, 2nd Edition (July 1973) (ISO/TC 97/SC 11). It can also read, but not write, cassette tapes written according to ECMA-34 Standard, 1st Edition (September 1971). Only tape cassettes complying with the above specifications can be used.
Nominal read and write speed is 756 ch per sec, enabling the reading of a full cassette (one track, consisting of 1000 blocks of 256 characters each) in approximately 460 seconds.

SPECIFICATIONS

Number of Recording Tracks	2, A and B sides of the cassette
Recording Technique	Bit serial, character serial, phase encoded
Packing Density	31.5 bits per mm (800 bpi)
Write Speed	756 ± 20 cps
Read Speed	756 ± 160 cps
Tape Speed	7.5 inches per second, nominal
Start Time	
Writing	60 ms, nominal
Reading	50 ms, maximum
Stop Time	
Writing	110 ms, nominal
Reading	85 ms, nominal
Rewind Speed	1 m/sec minimum
Recording Media	Magnetic tape cassette, complying with ECMA-34 Standard, 86 meter tape
Tape	Magnetic tape, certified for 1600 fcpi, tested for drop-outs, drop-ins, and amplitude
Tape Dimensions	ECMA-34 Standard

MAGNETIC TAPE



- The unit comprises a cassette tape unit, a controller board, and two cables.
- The unit presupposes an RC 3601 D or RC 3601 C Central Unit.

SPECIFICATIONS

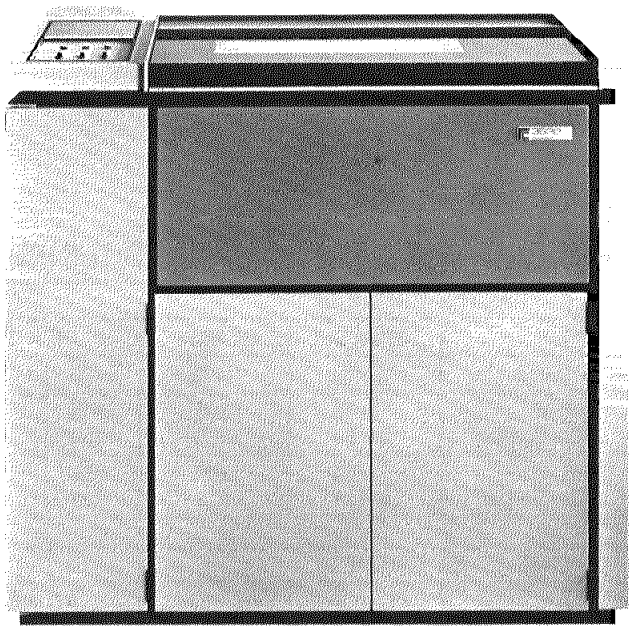
Ambient Temperature	5–40 °C (40–104 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	75 W, 65 KCAL/h, 256 BTU/h, maximum
Dimensions	
Height	15.8 cm (6.4 inches)
Width	21.7 cm (8.6 inches)
Depth	35.1 cm (14.0 inches)
Weight	9 kg (19.75 lb)
Mounting	
Device	Desk top
Controller	Any slot in cotroller chassis Board shared with F 71 controller
Note	Only one RC 3625 Cassette Tape Unit can be connected to the controller

PRINTERS

RC 3630 SERIES LINE PRINTERS

The five models comprising the RC 3630 Series of line printers are as follows:

RC 3632 1800 lpm 64 ch Line Printer
RC 3633 1200 lpm 96 ch Line Printer
RC 3634 900 lpm 64 ch Line Prinier
RC 3635 600 lpm 96 ch Line Printer
RC 3636 250 lpm 64 ch Line Printer



The RC 3632 is a single-zone 64 character line printer capable of printing at its nominal speed of 1800 lines per minute when using single line spacing and any contiguous subset of 35 characters on the print drum. When using the full repertoire of 64 characters, it can print at 1250 lines per minute. The printer is quietized as a standard feature.

The RC 3633 is a single-zone 96 character line printer capable of printing at its nominal speed of 1200 lines per minute when using single line spacing and any contiguous subset of 67 characters on the print drum, or at 925 lines per minute when using the full character repertoire. When using a 2×48 character drum, the RC 3633 can print at 1500 lines per minute with the full repertoire. The printer is quietized as a standard feature.

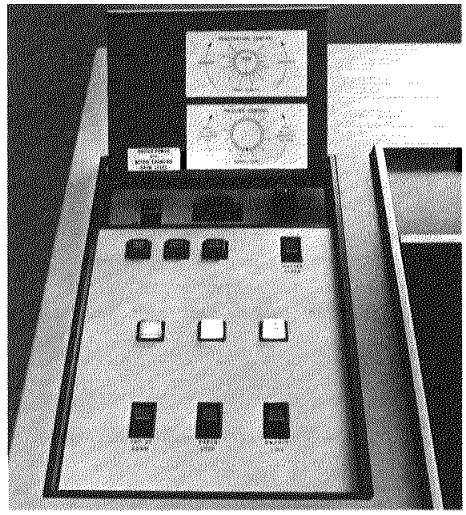
The RC 3635 is a two-zone 96 character line printer capable of printing at its nominal speed of 600 lines per minute when using single line spacing and any contiguous subset of 67 characters on the print drum, or at 500 lines per minute when using the full character repertoire. When using a 2×48 character drum, the RC 3635 can print at 875 lines per minute with the full repertoire. If printing is confined to the first 72 positions, its performance is identical to that of the RC 3633. The printer is quietized as a standard feature.

The RC 3634 is a two-zone 64 character line printer capable of printing at its nominal speed of 900 lines per minute when using single line spacing and any contiguous subset of 35 characters on the print drum, or at 700 lines per minute when using the full 64 character repertoire. If printing is confined to the first 72 print positions, its performance is identical to that of the RC 3632. The printer is quietized as a standard feature.

The RC 3636 is a six-zone 64 character line printer capable of printing at its nominal speed of 250 lines per minute when using single line spacing and the full 64 character repertoire. Restriction of the number of print positions used increases the print speed in five steps up to a maximum of 1100 lines per minute when printing is confined to the first 24 positions.

- All models use an operator-changeable print drum.
- All print drums are interchangeable between models using the same size of drum.
- Nominally slower models can print faster when a restricted number of print positions is used.
- Faster models can print in synchronism with the drum cycle when using single line spacing with a subset of the character repertoire.
- All models may be switched to a lower drum speed for extra high quality OCR or correspondence printing.
- 96 character models can print at up to twice their nominal speed when using a 2×48 character print drum.

PRINTERS



LINE PRINTER PERFORMANCES (LINES PER MINUTE WITH SINGLE LINE SPACING*)

64 CHARACTER PRINTERS										
	Char. Set	RC 3632	RC 3634		RC 3636					
Positions		1–132	1–72	1–132	1–24	1–48	1–72	1–96	1–120	1–132
Normal Drum Speed	1–35 36–64	1800 1250	1800 1250	900 700	– 1100	– 650	– 470	– 360	– 290	– 250
Reduced Drum Speed	1–44 45–64	1200 925	1200 925	600 500	– 850	– 480	– 330	– 260	– 210	– 175

96 CHARACTER PRINTERS					2×48 CHARACTER PRINTERS				
	Char. Set	RC 3633	RC 3635			Char. Set	RC 3633	RC 3635	
Positions		1–132	1–72	1–132	Positions		1–132	1–72	1–132
Normal Drum Speed	1–67 68–96	1200 925	1200 925	600 500	Normal Drum Speed	1–19 20–48	2400 1500	2400 1500	1200 875
Reduced Drum Speed	1–76 77–96	800 675	800 675	400 350	Reduced Drum Speed	1–28 29–48	1600 1150	1600 1150	800 625

*) Accuracy: ± 4%

SPECIFICATIONS

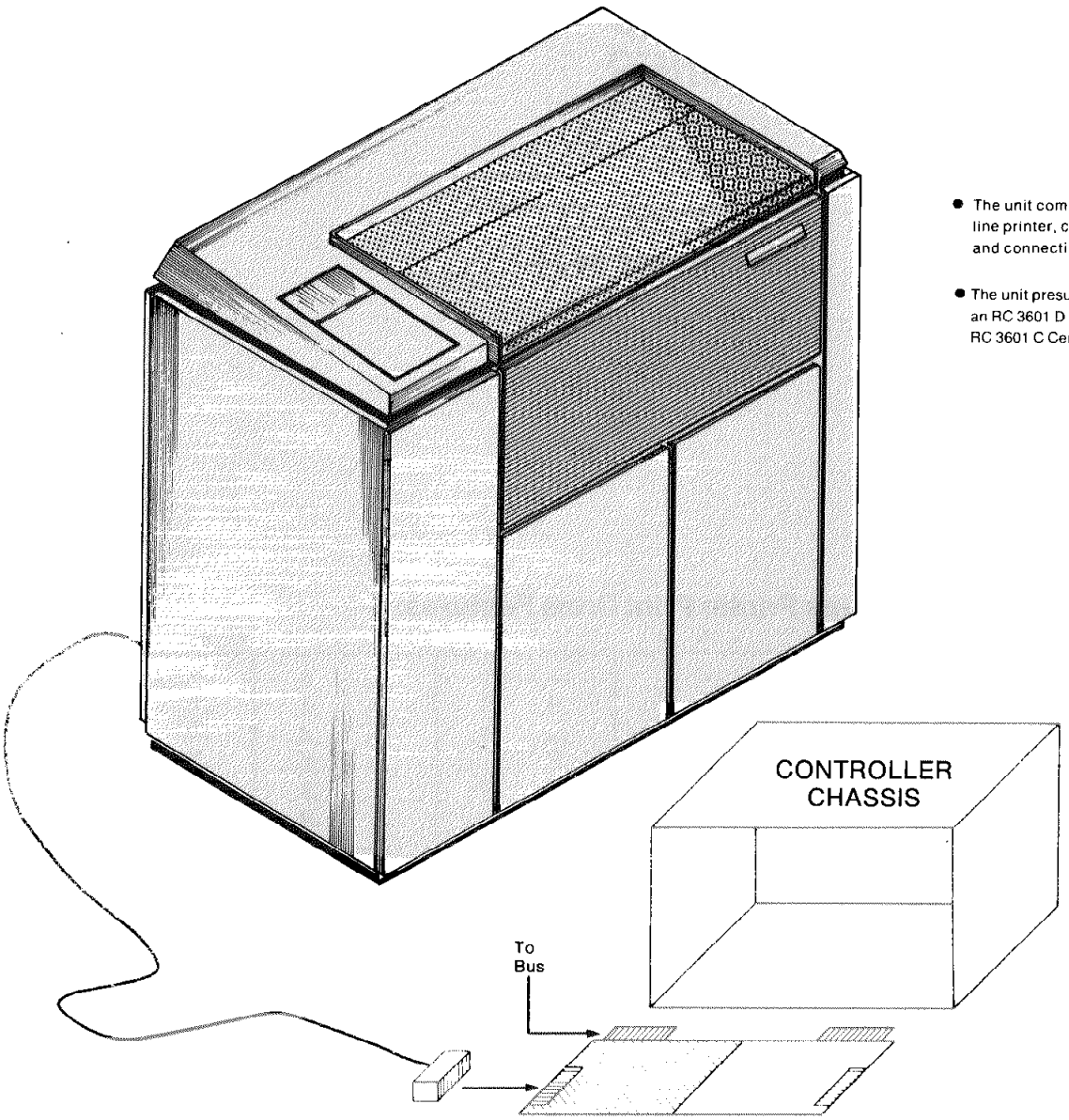
	RC 3632	RC 3633	RC 3634	RC 3635	RC 3636
Drum Speed (Revolutions per Minute) Normal Reduced	 1800 1200	 1200 800	 1800 1200	 1200 800	 1800 1200
Character Repertoire, Standard or User Specified	64	96 or 2 × 48	64	96 or 2 × 48	64
No. of Print Positions	132 at 10 per inch				
Vertical Spacing	6 or 8 lines per inch				
Paper Width	4 inches to 19⅞ inches				
Paper Type	Single copy, 15 lb bond minimum Multi copy up to 6 parts, 12 lb bond with one-time carbon				
Time for 1st Line Space	14 milliseconds				20 milliseconds
Time for Subsequent Line Space	5 milliseconds per line				8.3 milliseconds per line
Performance	SEE TABLE ABOVE				
Standard Features	12 channel VFU Phasing and penetration control Static eliminator Paper Low detector Drum speed selector switch Quick-change drum				12 channel VFU Drum speed selector switch Quick-change drum
Optional Features	F 31 136 print positions F 32 Castor Kit				

STANDARD PRINT DRUMS FOR THE RC 3630 SERIES LINE PRINTERS

When a line printer is selected, a print drum must be specified.

Standard RC 3630 Series Line Printer Print Drum Features:

F 301, F 401 or F 421 64 ch RC Standard	F 302, F 402 or F 422 96 ch RC Standard	F 303, F 403 or F 423 64 ch ASCII	F 304, F 404 or F 424 64 ch Modified PL 1	F 305, F 405 or F 425 64 ch Hungarian	F 306, F 406 or F 426 96 ch Cyrillic
.-. .R. .+. .S. .9. .T. .8. .U. .7. .V. .6. .W. .5. .Æ. .4. .Ø. .3. .Å. .2. .X. .1. .Y. .0. .Z. .;. .Ä. .:. .Ö. .,. .Ü. .-. .?. .A. .'. .B. .'. .C. .!. .D. .*. .E. .&. .F. .%. .G. .— .H. ./. .I. .>. .J. .<. .K. .=. .L. .». .M. .¤. .N. .). .O. .(. .P. .-. .Q.	.-. .r. .S. .+. .s. .T. .9. .t. .U. .8. .u. .V. .7. .v. .W. .6. .w. .Æ. .5. .æ. .Ø. .4. .ø. .Å. .3. .ß. .X. .2. .x. .Y. .1. .y. .Z. .0. .z. .A. .;. .ä. .O. .:. .ö. .U. .,. .ü. .?. .-. .A. .'. .a. .B. .'. .b. .C. .!. .c. .D. .*. .d. .E. .&. .e. .F. .%. .f. .G. .— .g. .H. ./. .h. .I. .>. .i. .J. .<. .j. .K. .=. .k. .L. .». .l. .M. .¤. .m. .N. .). .n. .O. .(. .o. .P. .-. .p. .Q. .q. .R.	.-. .L. .,. .K. .+. .J. .*. .I. .). .H. .(. .G. .'. .F. .&. .E. .%. .D. .$. .C. .#. .B. .". .A. .!. .@. .£. .?. .←. .>. .↑. .=. .]. .<. .\. .;. .[. .:. .Z. .9. .Y. .8. .X. .7. .W. .6. .V. .5. .U. .4. .T. .3. .S. .2. .R. .1. .Q. .0. .P. ./. .O. .-. .N. .-. .M.	.-. .>. .9. .I. .-. .‡. .8. .¬. .7. .;. .6. .!. .5. .—. .4. .<. .3. .¢. .2. .¤. .1. .@. .0. .#. .+. .%. .&. .N. .Z. .M. .Y. .L. .X. .K. .W. .J. .V. .I. .U. .H. .T. .G. .S. .F. .R. .E. .Q. .D. .P. .C. .O. .B. .=. .A. .'. .$. .). ./. .(. .,. .:. .*. .". .-. .?.	.-. .A. .Á. .Z. .+. .X. .Ü. .K. .&. .B. .%. .W. .#. .M. .*. .D. .=. .J. .<. .H. .>. .G. .'. .R. .—. .C. .:. .I. .Ö. .S. .^. .N. .É. .O. .;. .E. .(. .,. .). .-. .I. .Æ. .?. .9. .¤. .8. .¬. .7. ./. .6. .V. .5. .Y. .4. .F. .3. .P. .2. .U. .1 .T. .0. .Q. .-. .L.	.-. .4. .B. .+. .3. .Б. .Z. .2. .A. .Y. .1. .Ц. .X. .0. .;. .W. .Я. .:. .V. .Ю. .,. .U. .b. .-. .T. .b. .I. .S. .Щ. .'. .R. .Ш. .!. .Q. .Ч. .9. .P. .Ц. .8. .O. .X. .7. .N. .Ф. .6. .M. .У. .5. .L. .T. .4. .K. .C. .3. .J. .P. .2. .I. .П. .1. .H. .O. .0. .G. .H. .*. .F. .M. .&. .E. .Л. .%. .D. .K. .—. .C. .Й. ./. .B. .И. .>. .A. .З. .<. .9. .Ж. .=. .8. .E. .). .7. .Д. .(. .6. .Г. .-. .5.



- The unit comprises these elements: line printer, controller, and connecting cable.
- The unit presupposes an RC 3601 D or RC 3601 C Central Unit.

SPECIFICATIONS

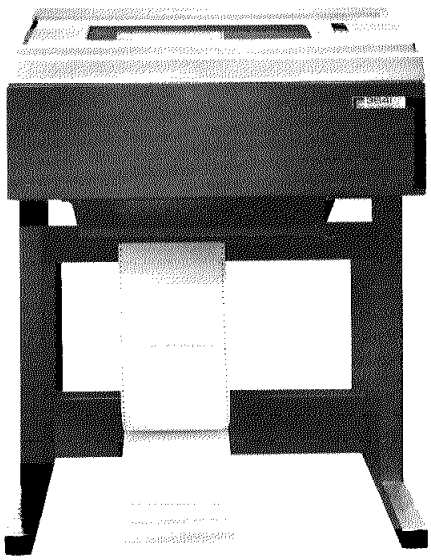
	RC 3632	RC 3633	RC 3634	RC 3635	RC 3636
Ambient Temperature	10–40 °C (50–104 °F)				
Relative Humidity	30–80% (no condensation)				
Heat Dissipation	1950 W, 1677 KCAL/h, 6655 BTU/h		1500 W, 1290 KCAL/h, 5120 BTU/h		900 W 774 KCAL/h, 3072 BTU/h
Dimensions Height Width Depth	116.8 cm (45 9/16 inches) 123.2 cm (48 1/16 inches) 62.2 cm (24 5/16 inches)				
Weight	364 kg (800 lbs)				273 kg (600 lbs)
Mounting Device Controller Board	Free standing Any slot in Controller Chassis Board shared with F 11 controller				

PRINTERS

RC 3641 300 lpm LINE PRINTER
RC 3642 600 lpm LINE PRINTER

The RC 3641 and RC 3642 are particularly reliable and sturdy low-cost drum printers that operate at 300 lpm and 600 lpm, respectively, with a 64 character print repertoire and a 136 column print line (with single spacing). Using the F 41 or F 42 96 Character Set Feature, printing speeds are 240 and 436 lpm, respectively. The printers can be switched between six and eight lines per vertical inch and can make up to six multiple copies. They come equipped with a paper receptacle and 12 channel VFU as standard features. Special character sets are also available.

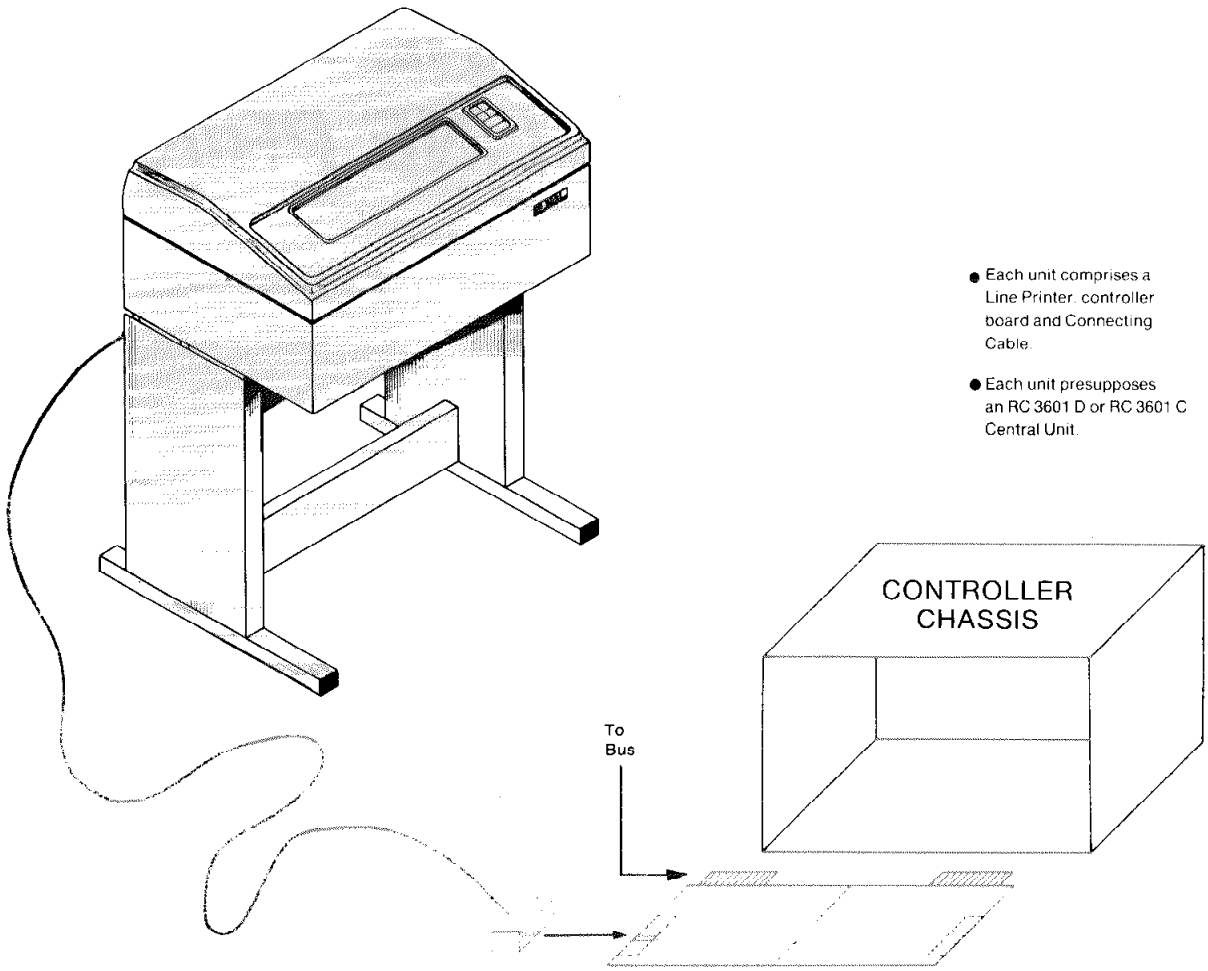
Print drums are not interchangable between the two printers.



SPECIFICATIONS

	RC 3641		RC 3642	
	64 Character	**96 Character**	**64 Character**	**96 Character**
Print Speed Drum Speed	300 lpm 1200 rpm	240 lpm 800 rpm	600 lpm 800 rpm	436 lpm 533 rpm
Top of Form Length	144 lines maximum, i.e., 24 inches at 6 lines per inch and 18 inches at 8 lines per inch			
Perforation Stepover	1.27 cm (1/2 inch) adjustable between 0 and 2.4 cm (1 inch)			
Horizontal Character Spacing	0.25 ± 0.013 cm (0.100 ± 0.005 inch)			
Vertical Line Spacing	0.167 ± 0.010 inch at 6 lines per inch 0.125 ± 0.010 inch at 8 lines per inch			
Line Advance Time	50 milliseconds		25 milliseconds	
Forms	Edge-punched fanfold forms 10.16 to 42.54 cm wide (4 to 16 3/4 inches)			
Features	F 41 96 Character Set F 401 64 ch RC Standard Print Drum F 402 96 ch RC Standard Print Drum F 403 64 ch ASCII Print Drum F 404 64 ch Modified PL1 Print Drum F 405 64 ch Hungarian F 406 96 ch Cyrillic The character sets on the standard print drums are the same as the standard character sets on the RC 3630 Series Line Printers.		F 42 96 Character Set F 421 64 ch RC Standard Print Drum F 422 96 ch RC Standard Print Drum F 423 64 ch ASCII Print Drum F 424 64 ch Modified PL1 Print Drum F 425 64 ch Hungarian F 426 96 ch Cyrillic The character sets on the standard print drums are the same as the standard character sets on the RC 3630 Series Line Printers.	

PRINTERS



- Each unit comprises a Line Printer, controller board and Connecting Cable.
- Each unit presupposes an RC 3601 D or RC 3601 C Central Unit.

SPECIFICATIONS

	RC 3641	RC 3642
Ambient Temperature	10–32 °C (50–100 °F)	
Relative Humidity	30–80% (no condensation)	
Heat Dissipation	680 W, 585 KCAL/h, 2335 BTU/h	
Dimensions		
Height	114.3 cm (45 inches)	
Width	83.8 cm (33 inches)	
Depth	66.0 cm (26 inches)	
Weight	154.6 kg (340 lbs)	168.0 kg (370 lbs)
Mounting		
Device	Free standing	
Controller	Any slot in Controller Chassis Board shared with F11 controller	

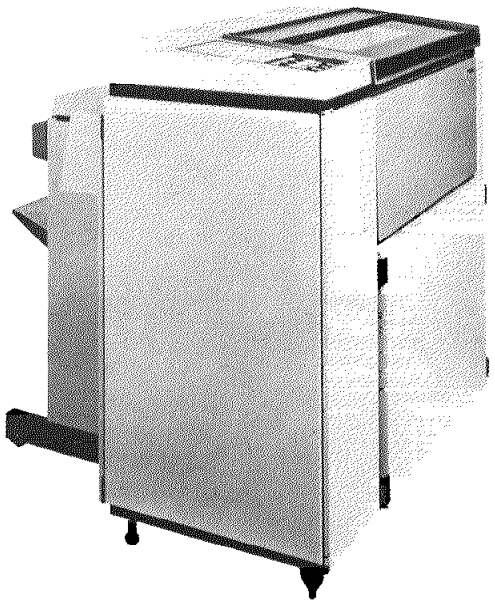
RC 3645 1500 lpm 48 ch CHARABAND PRINTER

The RC 3645 has a 136 position variable character set and is capable of printing at speeds of up to 2000 lines per minute. Printing action is based on the use of a flexible band containing 384 type faces which are moved continuously past a line of hammers in a horizontal direction.

The print band is called the "charaband". It consists of 384 double-ended steel type slugs embedded in a belt of synthetic rubber. Coding on the type slugs indicates the current position of each character on the charaband relative to the print hammers. This is done by the use of sensors connected to printer electronics.

Since the type slugs are double-ended, each charaband may contain two different character sets, one on each side. The charaband itself can easily be reversed by the operator, or be replaced by another charaband.

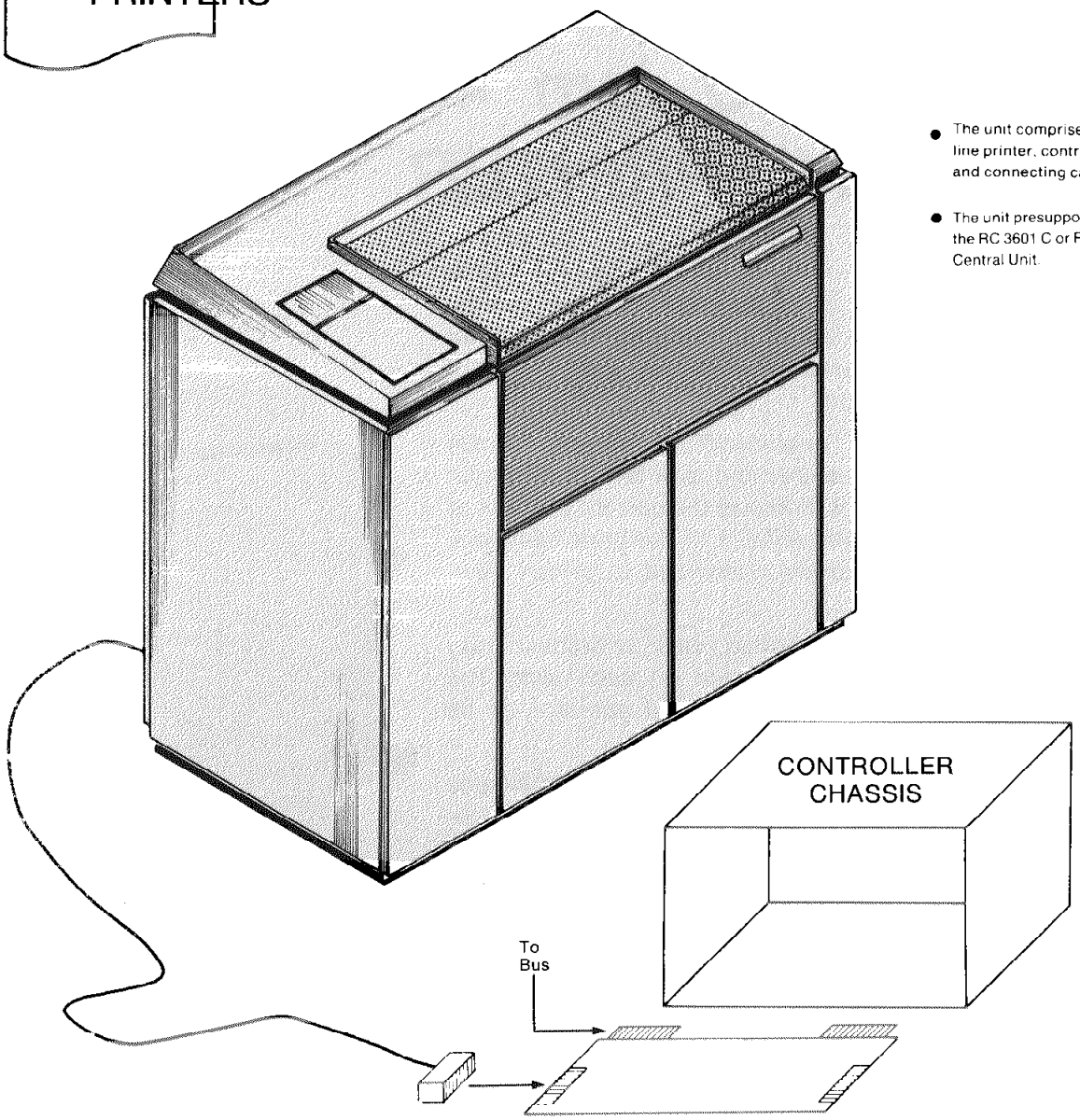
The performance table below gives the print speeds attainable when the 384 characters are divided into a number of equal subsets. Other layouts are also possible in which certain little-used characters appear less frequently on the charaband than does the main set. In this way speeds approaching those possible with smaller character sets can often be attained with larger character sets.



SPECIFICATIONS

Charaband Speed	
Normal	230 inches per second
Reduced	153.3 inches per second
Max. Character Repertoire	246 different characters on each side of charaband
No. of Print Positions	136 at 10 per inch
Vertical Spacing	6 or 8 lines per inch
Paper Width	$5^{1}/_{8}$ inches to $18^{3}/_{4}$ inches
Paper Type	Single copy, 15 lb bond minimum Multicopy up to six parts, 12 lb bond with 6 to 8 lb carbon Card stock, 15 to 125 lbs
Time for 1st Line Space	14 milliseconds
Slew Speed for 4 or more lines	60 inches per second
Performance	See table.
Standard Features	Powered Stacker Static eliminator 12 channel VFU Phasing and penetration control Paper low detector Charaband speed selector Parity check Hammer verify Extended form bay – accommodates up to 12 inch stationary Castors Two slew speeds

PRINTERS



- The unit comprises these elements: line printer, controller, and connecting cables.
- The unit presupposes the RC 3601 C or RC 3601 D Central Unit.

CHARABAND PRINTER PERFORMANCE (Lines per minute with single line spacing)

Character Set	16 × 24 ch	12 × 32 ch	8 × 48 ch	6 × 64 ch	4 × 96 ch	3 × 128 ch	2 × 192 ch
Normal Charaband Speed	2000	1920	1500	1220	905	715	500
Reduced Charaband Speed	1805	1505	1130	905	645	500	345

SPECIFICATIONS

Ambient Temperature 10–40° C (50–104° F)
Relative Humidity 30–80% (no condensation)
Heat Dissipation 3300 W, 2838 KCAL/h, 10 253 BTU/h
Dimensions
Height 116.8 cm (46 inches)
Width 123.2 cm (48 1/2 inches)
Depth 123.2 cm (48 1/2 inches)
Weight 431 kg (950 lbs) including powered stacker
Mounting
Device Free standing
Controller Any slot in Controller Chassis

PRINTERS

RC 3600 SERIES SERIAL PRINTER

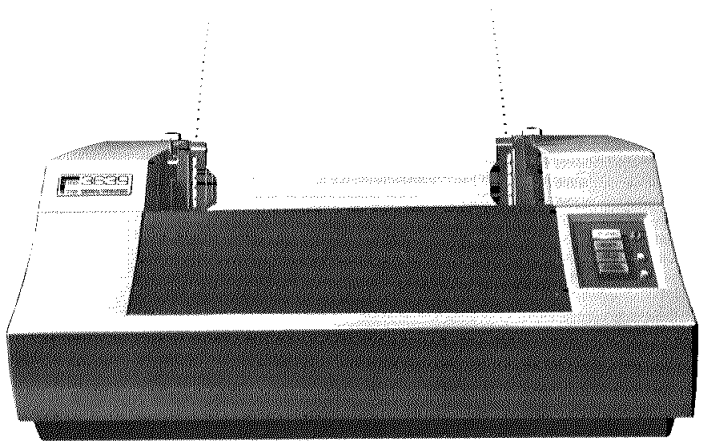
The two models comprising the RC 3600 Series of serial printers are as follows:

RC 3638 165 cps Serial Printer
RC 3639 330 cps Serial Printer

The RC 3638 Serial Printer operates at rates of up to 165 characters per second at 10 characters per inch with up to 132 characters per line. This translates into approximately 60 lines per minute on full lines and up to 150 lines per minute on short lines.

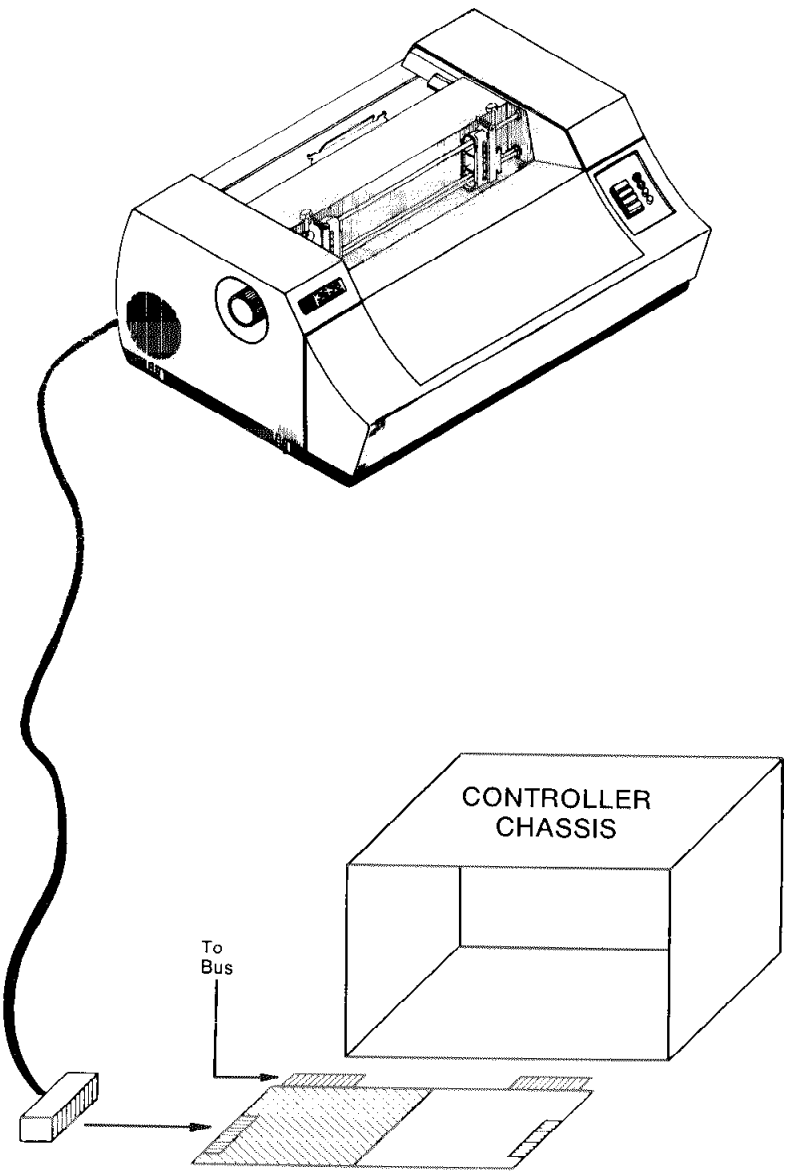
The RC 3639 Serial Printer operates at rates of up to 330 characters per second at 10 characters per inch with up to 132 characters per line. This translates into approximately 125 lines per minute.

A standard character set is supplied with the unit. Other character sets are available at additional cost.

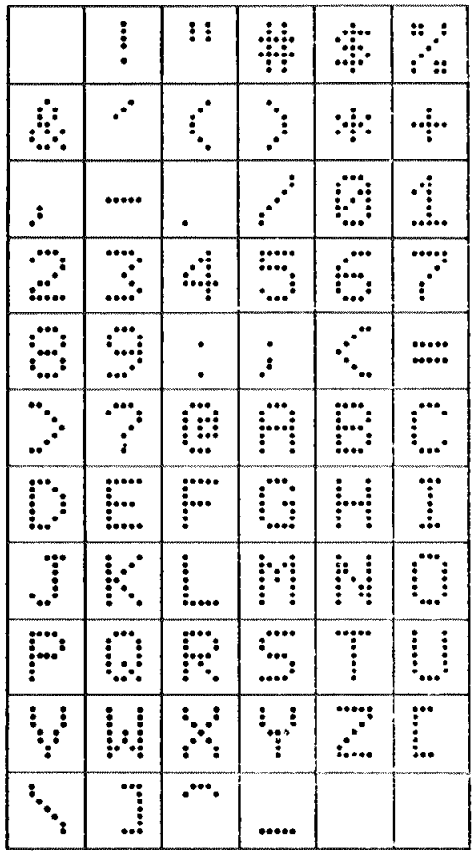


SPECIFICATIONS

	RC 3638	RC 3639
Printing Method	Impact, character-by-character	
Printing Rate Characters Full Lines Short Lines	 165 cps 60 lpm 150 lpm	 330 cps 125 lpm –
Character Repertoire	64 ASCII	
No. of Print Positions	132 at 10 per inch	
Vertical Spacing	6 lines per inch	
Paper Width	4 inches to 14⅞ inches	
Paper Type	Standard sprocketed paper Up to 4 carbon copies	
Standard Features	Vertical format control Audio alarm buzzer Form feed control Paper runaway inhibit	
Optional Feature	Other character sets	



STANDARD CHARACTER SET



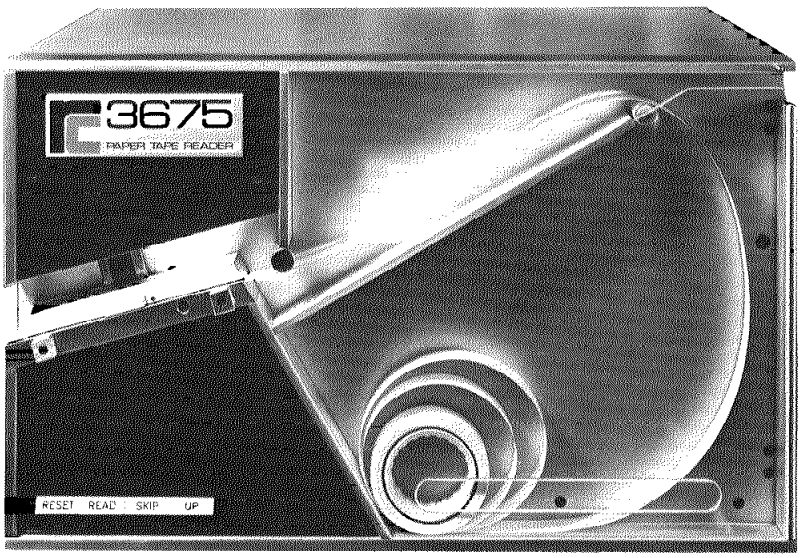
- The unit comprises these elements: serial printer, controller, and connecting cable.
- The unit presupposes an RC 3601 D or RC 3601 C Central Unit.

SPECIFICATIONS (BOTH UNITS)

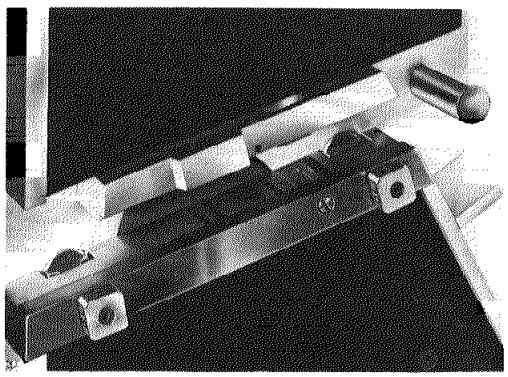
Ambient Temperature	5–37°C (40–100°F)
Relative Humidity	10–90% (no condensation)
Heat Dissipation	Maximum 275 W, 236.5 kcal/h, 937.75 BTU/h
Dimensions	
Height	29.2 cm (11 1/2 inches)
Width	70.5 cm (27 3/4 inches)
Depth	50.8 cm (20 inches)
Weight	53.6 kg (118 lbs)
Mounting	
Device	On desk top or on F 94 Reader Stand
Controller Board	Any slot in Controller Chassis Board shared with OCP controller

PAPER TAPE

RC 3675 2000 cps PAPER TAPE READER



The RC 3675 is a buffered paper tape reader capable of reading 5, 7, or 8 channel ISO standard tape or 6 channel Olivetti tape at continuously variable speeds of up to 200 inches per second. The picture below shows the knobs used to switch from one sort of paper tape to another.

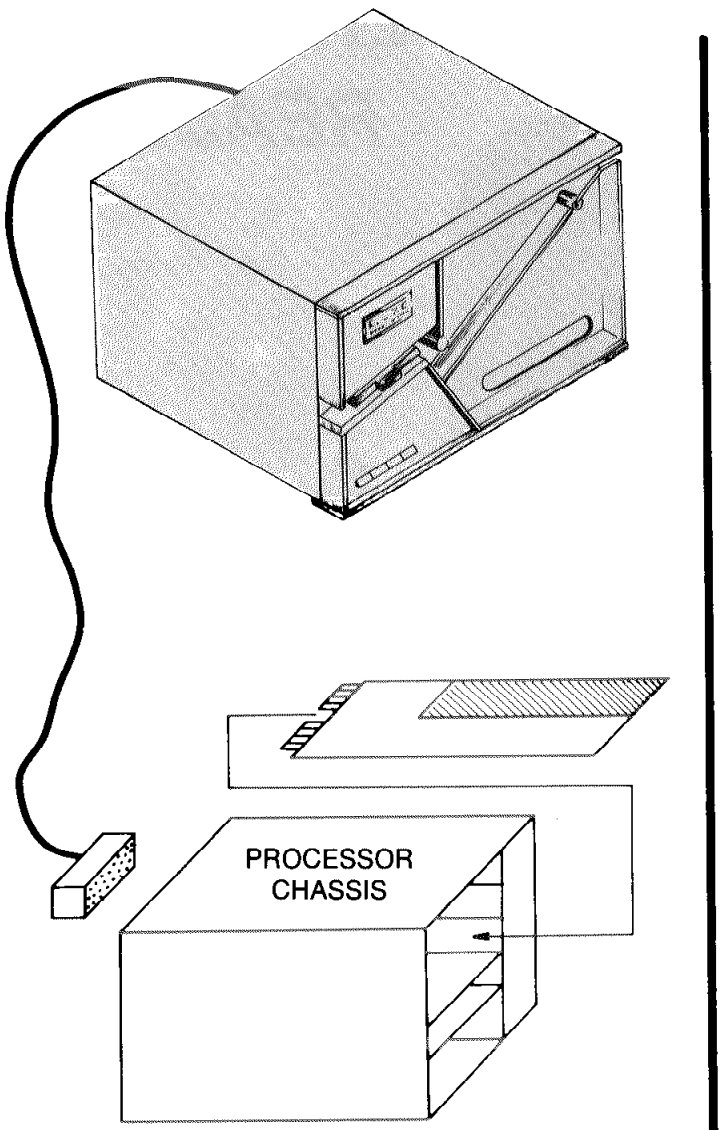


The RC 3675 is available in two versions: the RC 3675 D for use with the RC 3601 D Central Unit, and the RC 3675 for use with the RC 3601 C Central Unit.

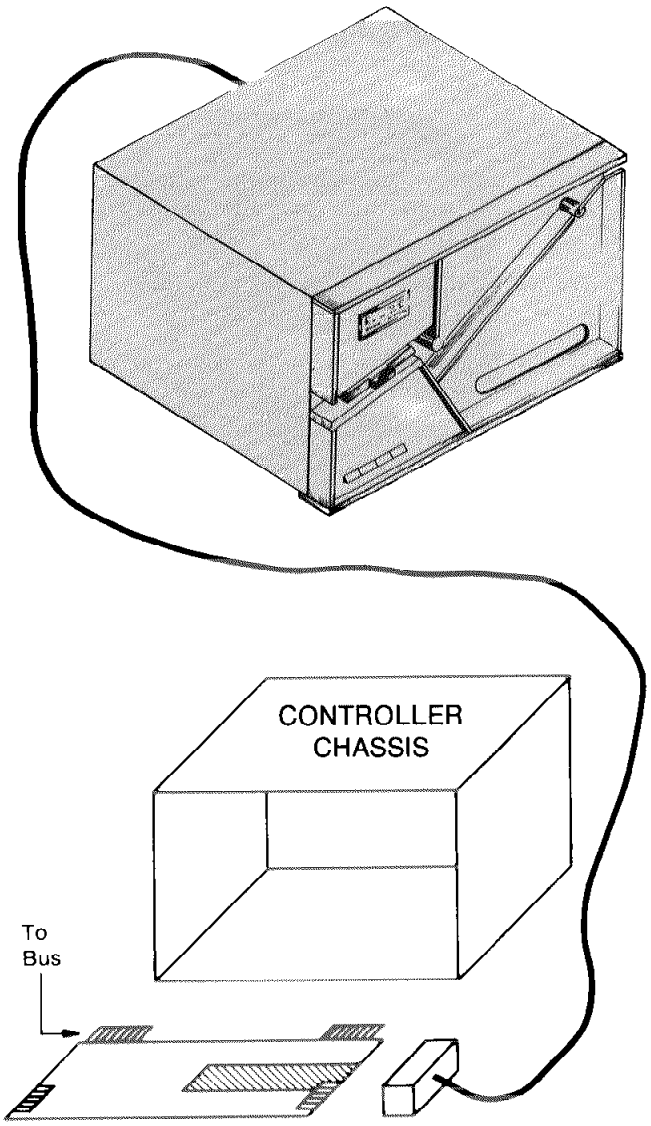
SPECIFICATIONS

Read Head	Dual set of photosensors for ISO and Olivetti channel formats Single light source
Buffer Size	256 8-bit characters
Tape Speed	Continuously regulated from 0 to 200 inches per second according to buffer contents
Performance	2000 char. per second (ISO tape) 1695 char. per second (Olivetti tape)
Tape Widths	
8 channel ISO	25.4 mm (1 inch)
7 channel ISO	22.2 mm ($^{7}/_{8}$ inch)
5 channel ISO	17.5 mm ($^{11}/_{16}$ inch)
6 channel Olivetti	20.5 mm
Tape Media	Paper, oiled or non-oiled, plastic, mylar, or metalized mylar
Tape Roll Sizes	
Outer	200 mm ($7^{3}/_{4}$ inches) maximum
Inner	50 mm (2 inches) minimum
Standard Features	Tape width selector knobs Dual end-of-tape sensors Sprocket hole sensor Adjustment prism

PAPER TAPE



- The RC 3675 comprises these elements: paper tape reader, controller and connecting cable.
- The unit presupposes the RC 3601 C Central Unit.



- The RC 3675 D comprises these elements: paper tape reader, controller and connecting cable.
- The unit presupposes the RC 3601 D Central Unit.

SPECIFICATIONS

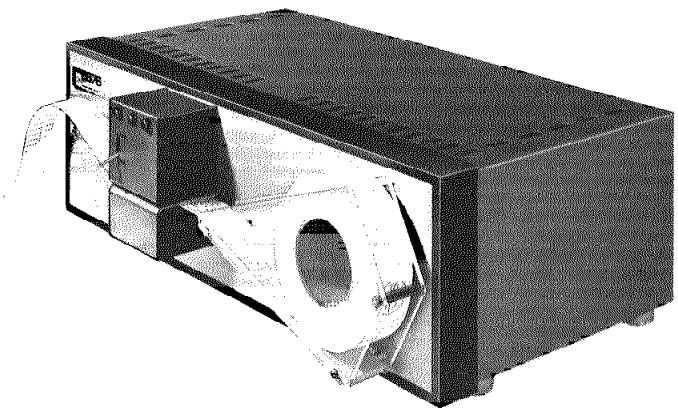
	RC 3675	RC 3675 D
Ambient Temperature	16–32° C (60–90° F)	
Relative Humidity	40–70% (no condensation)	
Heat Dissipation	200 W, 172 KCAL/h, 683 BTU/h	
Dimensions		
Height	32.5 cm (12 11/16 inches)	
Width	52.0 cm (20 5/16 inches)	
Depth	46.5 cm (18 3/16 inches)	
Weight	36 kg (79 1/4 lbs)	
Mounting Device	Desk top or F 94 Reader Stand	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

PAPER TAPE

RC 3676 500 cps ISO PAPER TAPE READER

The RC 3676 is a buffered paper tape reader Capable of reading 8 channel ISO standard paper tape at continuously variable speeds of up to 50 inches per second.

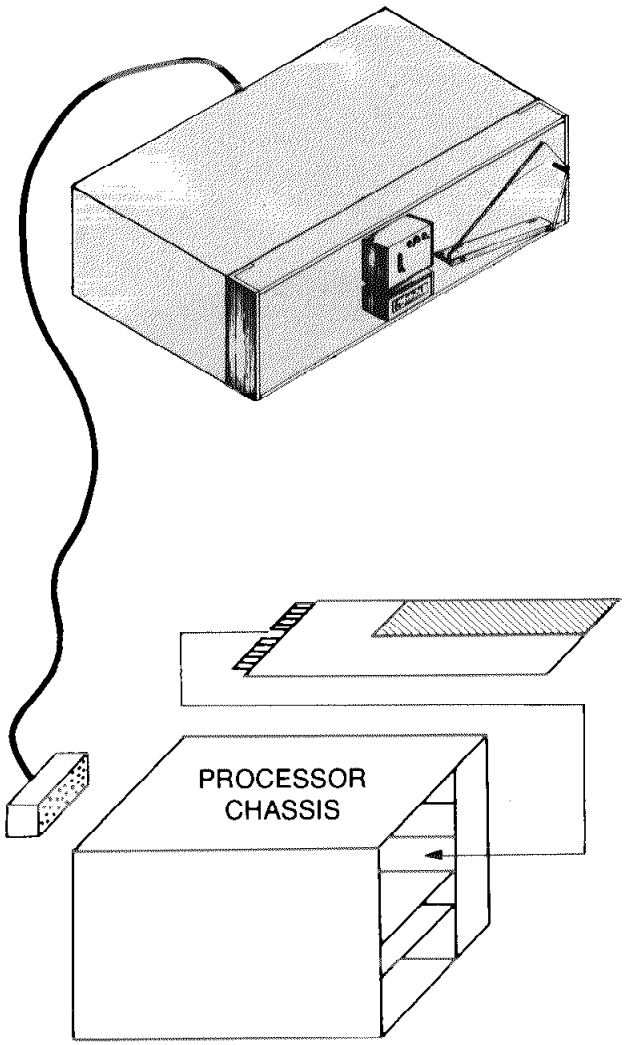
The RC 3676 is available in two versions: the RC 3676 D for use with the RC 3601 D Central Unit and the RC 3676 for use with the RC 3601 Central Unit.



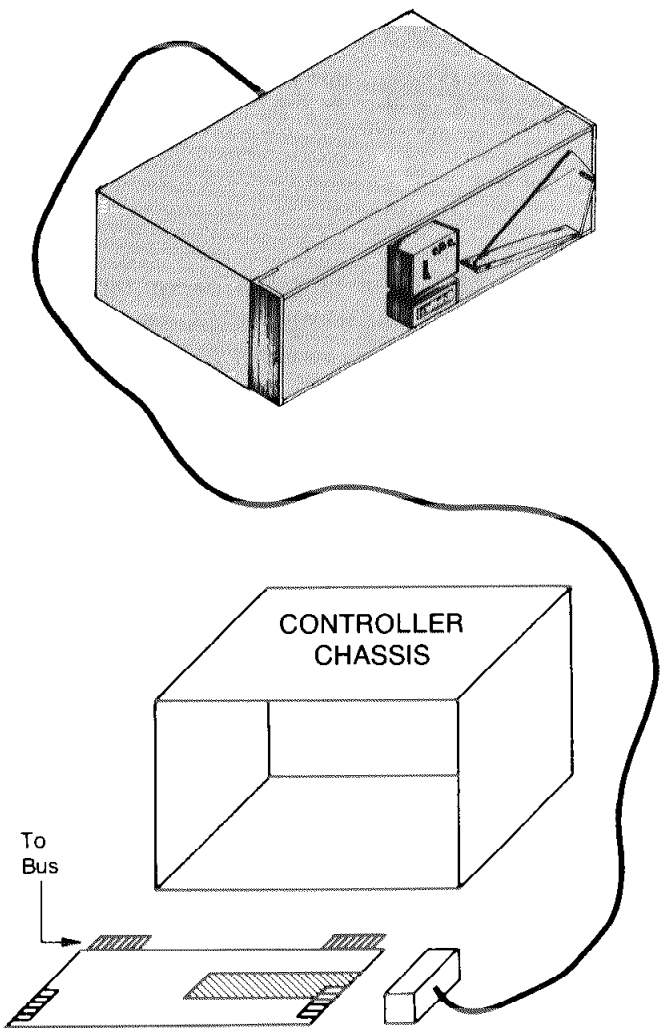
SPECIFICATIONS

Read Head	Light emitting diodes Photosensor array
Buffer Size	128 8-bit characters
Tape Speed	Continuously regulated from 0 to 50 inches per second according to buffer contents
Performance	500 characters per second
Tape Width	25.4 mm (1 inch)
Tape Media	Paper, oiled or non-oiled, plastic, mylar, or metalized mylar
Tape Roll Size	
Outer	200 mm (7 3/4 inches) maximum
Inner	50 mm (2 inches) minimum
Standard Features	End of Tape sensing Sprocket hole sensing

PAPER TAPE



- The RC 3676 comprises these elements: paper tape reader, controller, and connecting cable.
- The unit presupposes the RC 3601 C Central Unit.



- The RC 3676 D comprises these elements: paper tape reader, controller, and connecting cable.
- The unit presupposes the RC 3601 D Central Unit.

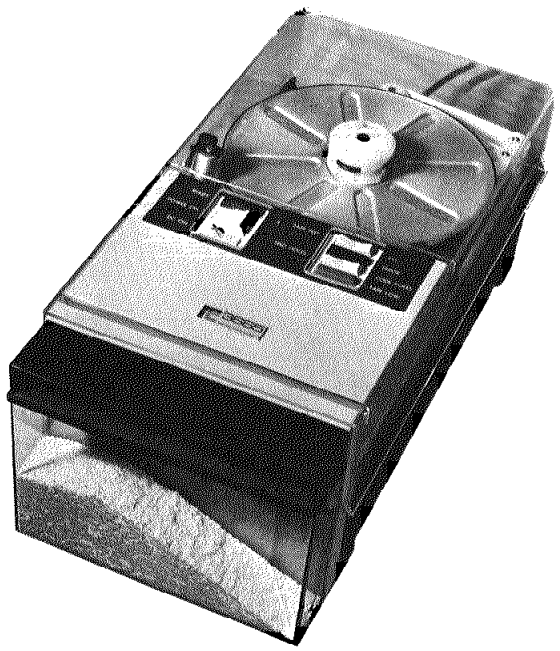
SPECIFICATIONS

	RC 3676	RC 3676 D
Ambient Temperature	10–40 C (50–104° F)	
Relative Humidity	20–80% (no condensation)	
Heat Dissipation	100 W, 86 KCAL/h, 341 BTU/h	
Dimensions		
Height	13.3 cm (5 3/16 inches)	
Width	For cabinet mounting or 44.0 cm (17 3/16 inches)	
Depth	27.0 cm (10 3/16 inches)	
Weight	10 kg (22 lbs)	
Mounting Device	Desk top or cabinet	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C Central Unit	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

PAPER TAPE

RC 3665 75 cps PAPER TAPE PUNCH

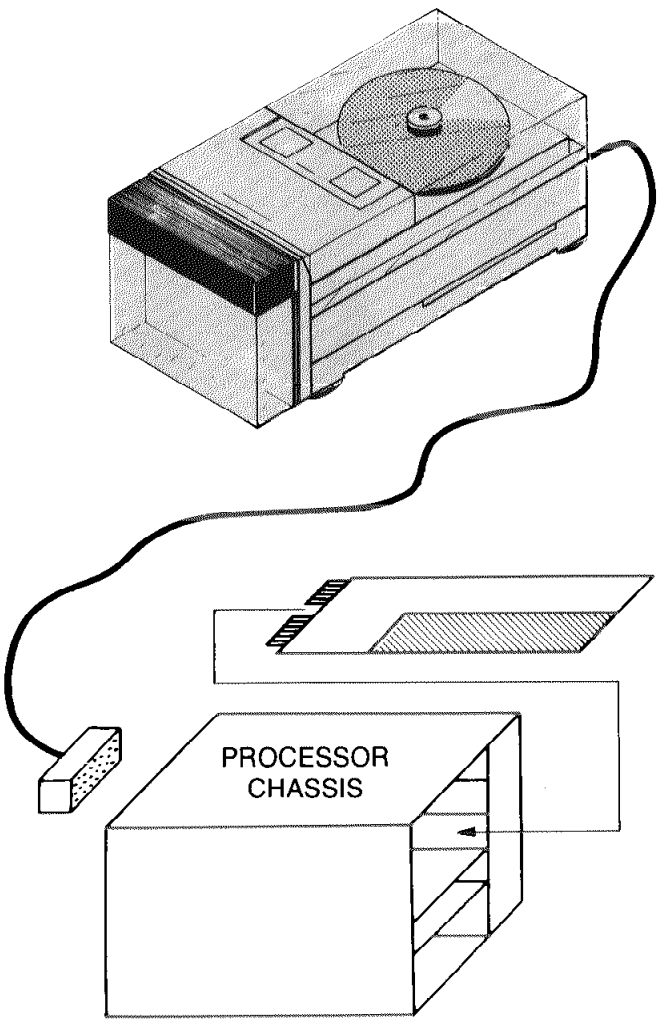
The RC 3665 is capable of punching 5, 7 and 8 channel paper tape in accordance with appropriate sections of ISO standard R 1154 at an asynchronous speed of 75 characters per second. It is available in two versions: the RC 3665 D for use with the RC 3601 D Central Unit, and the RC 3665 for use with the RC 3601 C Central Unit.



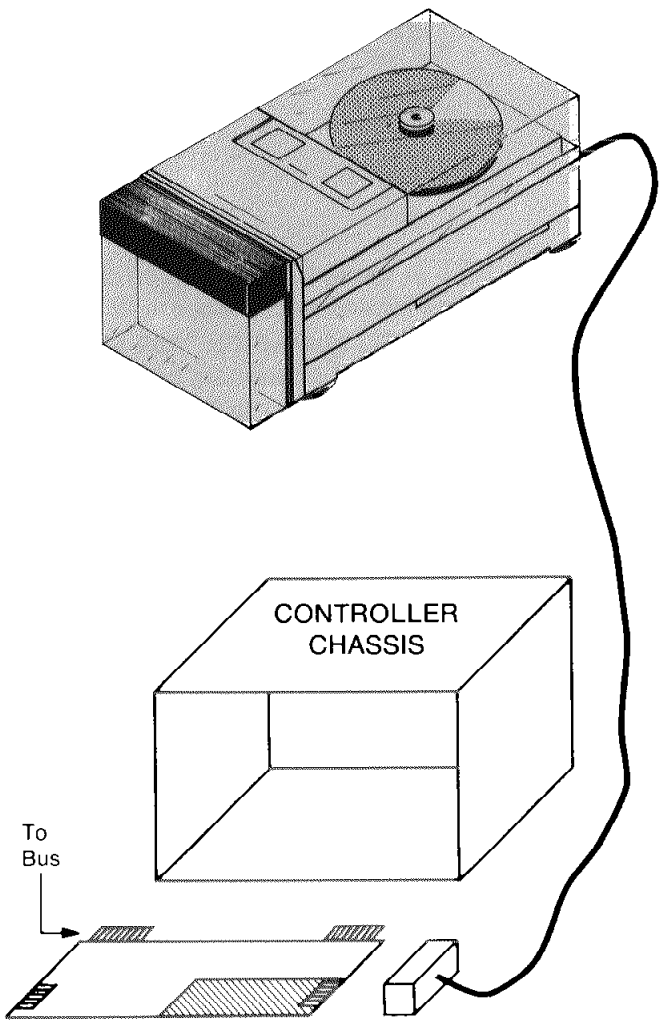
SPECIFICATIONS

Punching Speed	75 characters per second, asynchronous
Supply Spool Capacity	Approximately 300 m (1000 feet) of tape, corresponding to about 120,000 characters
Tape Widths	
8 channel ISO	25.4 mm (1 inch)
7 channel ISO	22.2 mm ($^{7}/_{8}$ inch)
5 channel ISO	17.5 mm ($^{11}/_{16}$ inch)
Tape Media	Paper, oiled or non-oiled, plastic, mylar, or metalized mylar
Tape Roll Sizes	
Outer	200 mm ($7^{3}/_{4}$ inches) maximum
Inner	50 mm (2 inches) minimum
Tape Feed System	Incremental Single capstan drive, independent of sprocket holes
Tape Punching System	9 solenoid operated punching pins
Standard Features	Tape break detector Tape Low indicator Removable transparent cover and chip box
Special Remark	Punched output tape can either run free or be fed back to a take-up spool inside the unit.

PAPER TAPE



- The RC 3665 comprises these elements: paper tape punch, controller, and connecting cable.
- The unit presupposes the RC 3601C Central Unit.



- The RC 3665 D comprises these elements: paper tape punch, controller, and connecting cable.
- The unit presupposes the RC 3601 D Central Unit.

SPECIFICATIONS

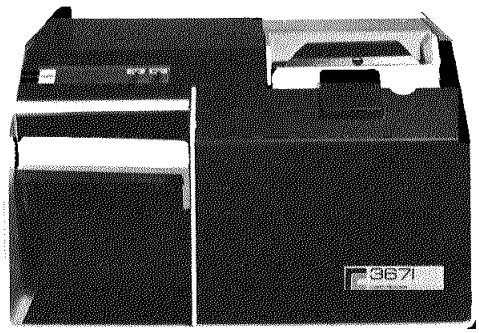
	RC 3665	RC 3665 D
Ambient Temperature	10–40° C (50–104° F)	
Relative Humidity	20–80% (no condensation)	
Heat Dissipation	200 W max., 172 KCAL/h, 683 BTU/H	
Dimensions		
Height	19.8 cm ($7^3/_4$ inches)	
Width	22.0 cm ($8^5/_8$ inches)	
Depth	43.2 cm ($16^7/_8$ inches)	
Weight	13 kg ($28^3/_4$ lbs)	
Mounting Device	Desk top	
Controller	Standard I/O interface board in Processing Unit of RC 3601 C Central Unit	Standard I/O interface board in Controller Chassis of RC 3601 D Central Unit

RC 3600 SERIES CARD READERS

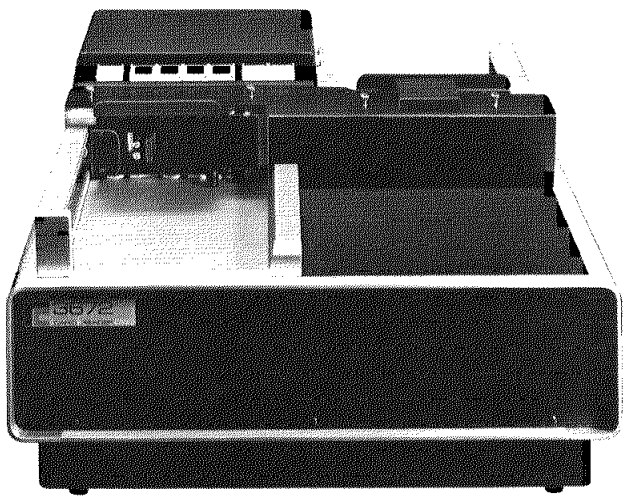
Available units in this series are:

RC 3671C 300 CPM 80 Column Card Reader

RC 3672C 600 CPM 80 Column Card Reader



RC 3671C
Punched Card Reader



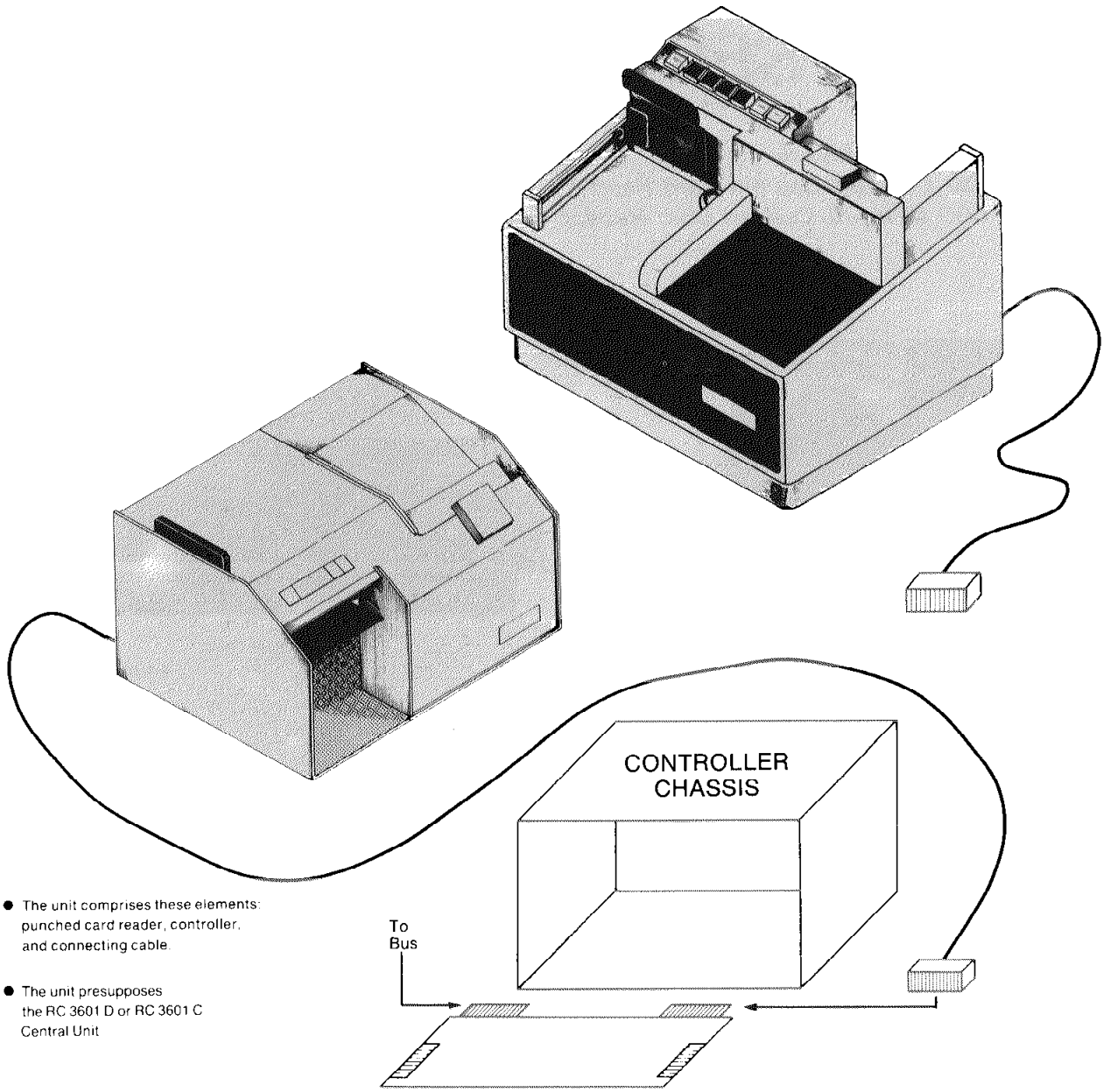
RC 3672C
Punched Card Reader

The RC 3671C and RC 3672C are serial card readers capable of reading standard 80 column punched cards at speeds of 300 and 600 cards per minute, respectively. The RC 3671C and RC 3672C type designations include a card reader controller, which enables the punching in each card column to be interpreted as one of the 256 EBCDIC combinations and transferred to memory as a single 8-bit byte. Alternatively, the controller may be switched by program to operate in a column binary mode, in which the contents of each card column are transferred to two adjacent bytes of memory.

SPECIFICATIONS

	RC 3671C	RC 3672C
Card Rate	300 cards per minute	600 cards per minute
Hopper/Stacker Capacity	600 cards	1000 cards
Card Specifications	ANSI specifications for 80 column cards	
Card Codes	Full EBCDIC (including BCD, Hollerith, and other subsets) Column binary	
Card Feed System	Riffle air action in input hopper Vacuum picker Straight-through card track	
Reading System	Infrared light-emitting diodes Phototransistor array Master oscillator	
Checks	Light/dark read check Motion check Hopper check	

PUNCHED CARDS



- The unit comprises these elements: punched card reader, controller, and connecting cable.
- The unit presupposes the RC 3601 D or RC 3601 C Central Unit

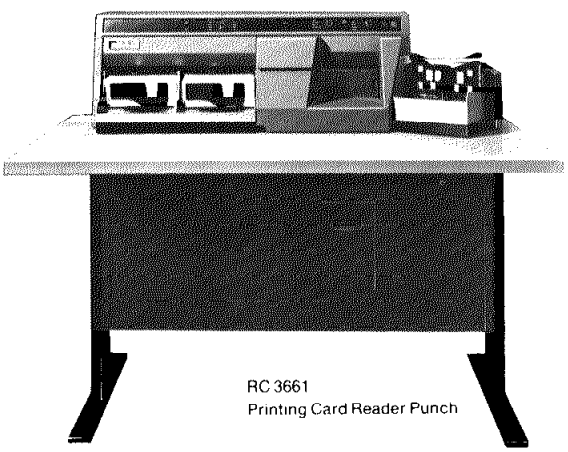
SPECIFICATIONS

	RC 3671C	RC 3672C
Ambient Temperature	10–40°C (50–104°F)	
Relative Humidity	30–70% (no condensation)	
Heat Dissipation	570 W, 490 KCAL/h, 1945 BTU/h	600 W, 516 KCAL/h, 2048 BTU/h
Dimensions Height Width Depth	 27.9 cm (11 inches) 48.9 cm (19¼ inches) 35.6 cm (14 inches)	 34.4 cm (13 9/16 inches) 58.6 cm (23 1/16 inches) 47.7 cm (18 inches)
Weight	27.3 kg (60 lbs)	34.0 kg (75 lbs)
Mounting Device Controller Board	 Desk Top F 94 Reader Stand	 Desk Top
	Any slot in Controller Chassis	

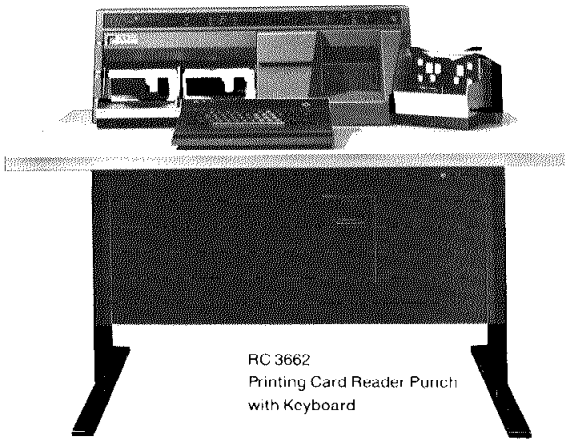
RC 3600 SERIES CARD READER PUNCHES

Available units in this series are:

RC 3660 Card Reader Punch
RC 3661 Printing Card Reader Punch
RC 3662 Printing Card Reader Punch with Keyboard



RC 3661
Printing Card Reader Punch



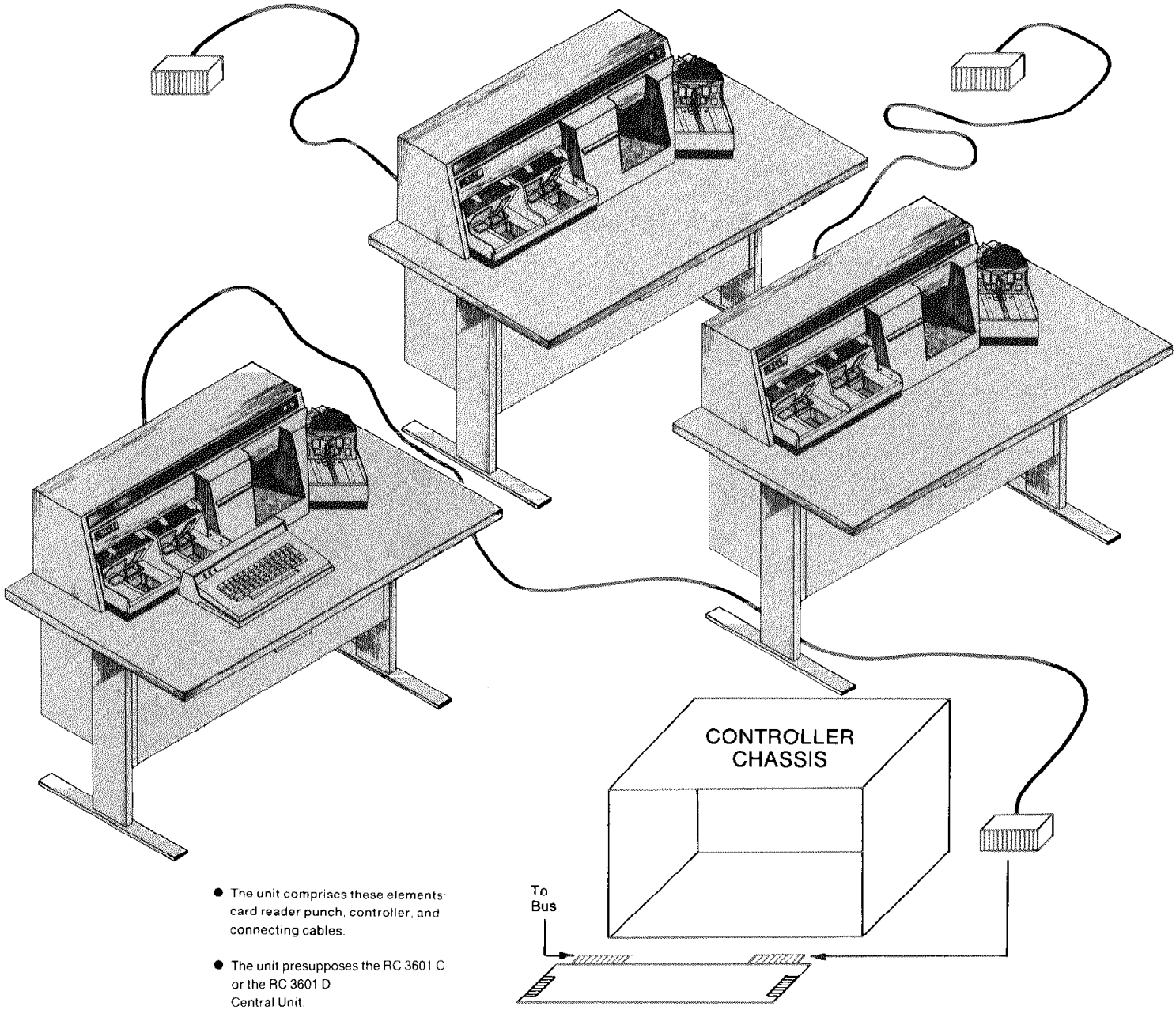
RC 3662
Printing Card Reader Punch
with Keyboard

SPECIFICATIONS

	RC 3660	RC 3661 and RC 3662
Card Rate Reading Punching	200 cards per minute 45–75 cards per minute	
Printing		45–75 cards per minute synchronous with punching
Hopper Capacity Primary Secondary	600 cards 400 cards	
Stacker Capacity Primary Secondary	400 cards 400 cards	
Card Specifications	ANSI specifications for 80 column cards	
Card Codes	Full EBCDIC Column binary	
Print Codes	–	63 characters of the EBCDIC code
Card Feed System	Mechanical picker	
Reading System	Phototransistor array Master oscillator	
Punching System	Two sets of punch dies	
Printing System	–	Print drum with four print hammers Synchronized with punching system
Checks	Light/dark read check Data check Motion check Hopper check Stacker check	
Optional Feature	F 60 Read after Punch Station (not field installable)	

The RC 3660, RC 3661, and RC 3662 are capable of reading standard 80 column punched cards at speed of 200 cards per minute, and punching cards at speeds of from 45 to 75 cards per minute. The RC 3661 and RC 3662 are further capable of printing cards at speeds of from 45 to 75 cards per minute. The punch or print rate depends on the number of columns to be punched or printed.

PUNCHED CARDS



- The unit comprises these elements: card reader punch, controller, and connecting cables.
- The unit presupposes the RC 3601 C or the RC 3601 D Central Unit.

SPECIFICATIONS (ALL UNITS)

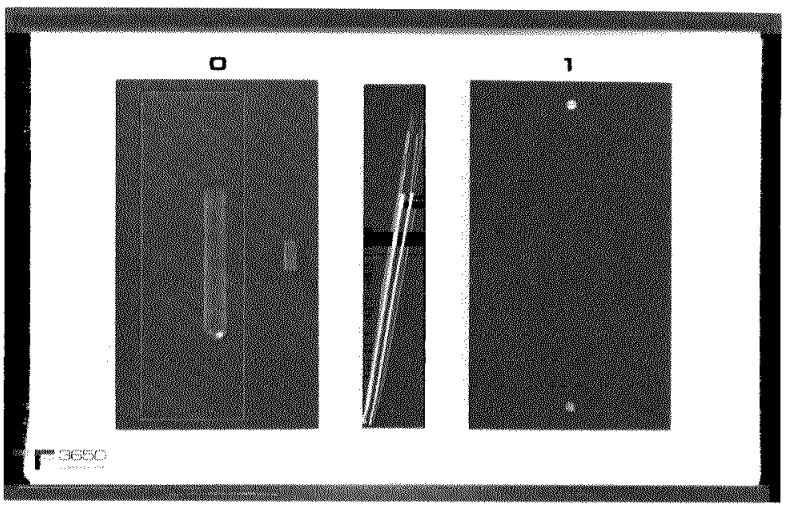
Ambient Temperature	5–43°C (40–110°F)
Relative Humidity	8–90% (no condensation)
Optimum Environment	
Ambient Temperature	24 ± 8°C (75 ± 15°F)
Relative Humidity	50 ± 15%
Heat Dissipation	350 W, 300 kcal/h, 1200 BTU/h
Dimensions	
Height	88.9 cm (35 inches)
Width	106.7 cm (42 inches)
Depth	68.6 cm (27 inches)
Weight	114 kg (250 lbs)
Mounting	
Device	Free standing
Controller Board	Any slot in Controller Chassis

DISCS

RC 3650 FLEXIBLE DISC DRIVE

The RC 3650 Flexible Disc Drive is a random access storage device which uses a single removable flexible disc cartridge as a storage medium and has a single movable read/write head. The flexible disc has a total capacity of 242,944 8-bit bytes, which are recorded on 73 tracks, each of which contains 26 sectors with 128 bytes of data. The RC 3650 can be used to prepare flexible discs for use with the IBM 3540/3740 and can also read discs prepared on this equipment, given that a progrem has been written for these purposes.

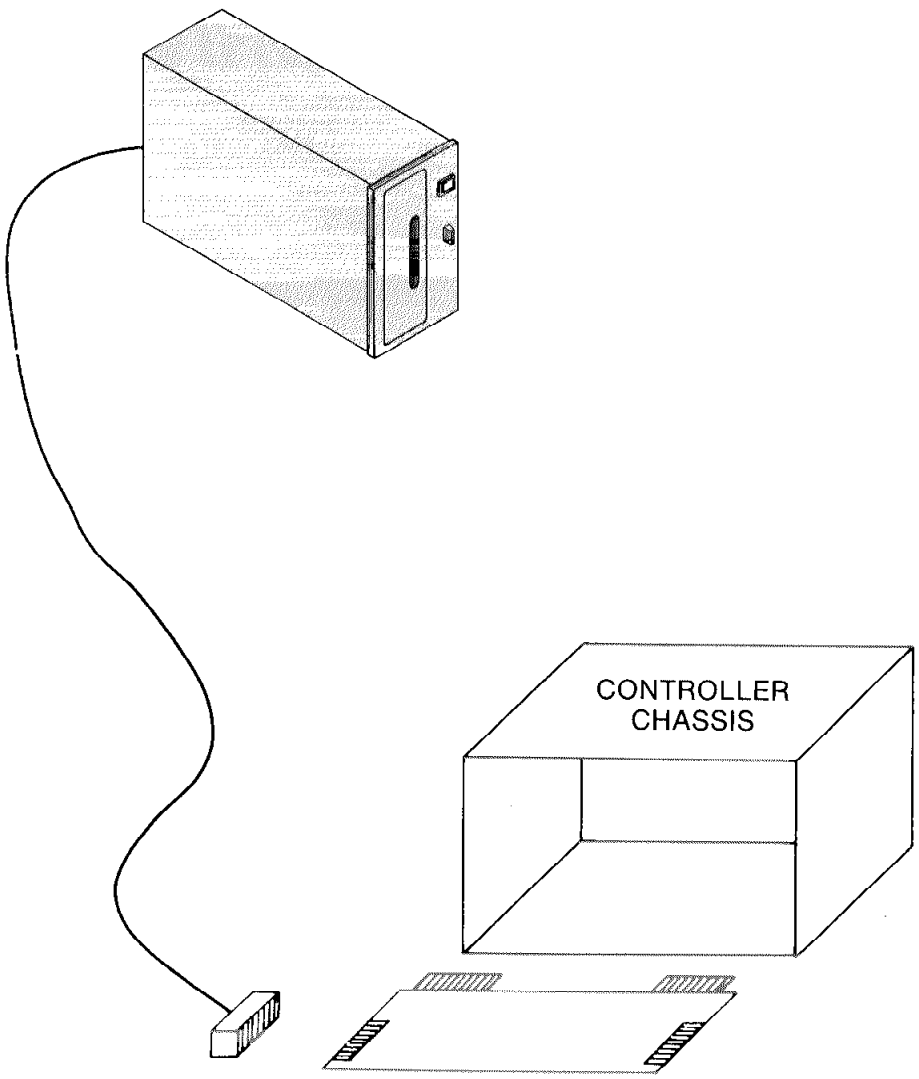
A second RC 3650 Flexible Disc Drive can be mounted in the first unit's housing.



SPECIFICATIONS

Storage Medium	
Type	Single-surface magnetic disc cartridge in sealed envelope
Size	20.32 × 20.32 cm (8 × 8 inches)
Track Density	48 tracks per inch
Recording Format	
Tracks	76 (plus one for system utilization)
Sectors per Track	26
Capacity (IBM Format)	
Per Diskette	252,928 bytes
Per Track	3328 bytes
Per Sector	128 bytes Note: A sector is the smallest block of information on the diskette.
Access Time	
Disc Rotation	360 revolutions per minute (± 3.5%)
Average Latency	83.33 milliseconds (half rotation)
Maximum Head Positioning Including Settling Time	
For Adjacent Tracks	20 milliseconds
Average	260 milliseconds
For 76 Track Movement	770 milliseconds
Bit Transfer	
Transfer	Double Frequency Recording
Transfer Rate	249 KHz

DISCS



- The unit comprises a flexible disc drive, controller, and connecting cable.
- The unit presupposes an RC 3601 C or RC 3601 D Central Unit.

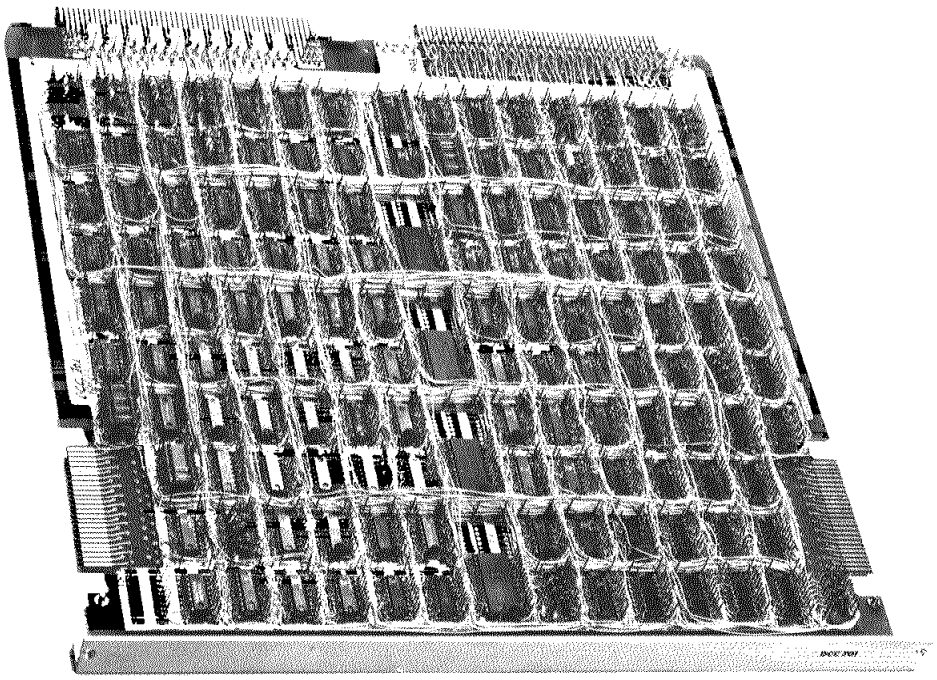
SPECIFICATIONS

Ambient Temperature	10–38°C (50–100°F)
Temperature Change	6.7°C per hour (12°F per hour)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	
Start	120 W, 103 KCAL/h, 410 BTU/h
Run	100 W, 86 KCAL/h, 342 BTU/h
Dimensions	
Height	31 cm (12.25 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	5.4 kg (12 lbs)
Mounting	
Drive	Any cabinet
Controller	Any slot in Controller Chassis

DISCS

RC 3688 DISC CARTRIDGE CHANNEL

F 52 DISC CARTRIDGE DRIVE ADAPTOR

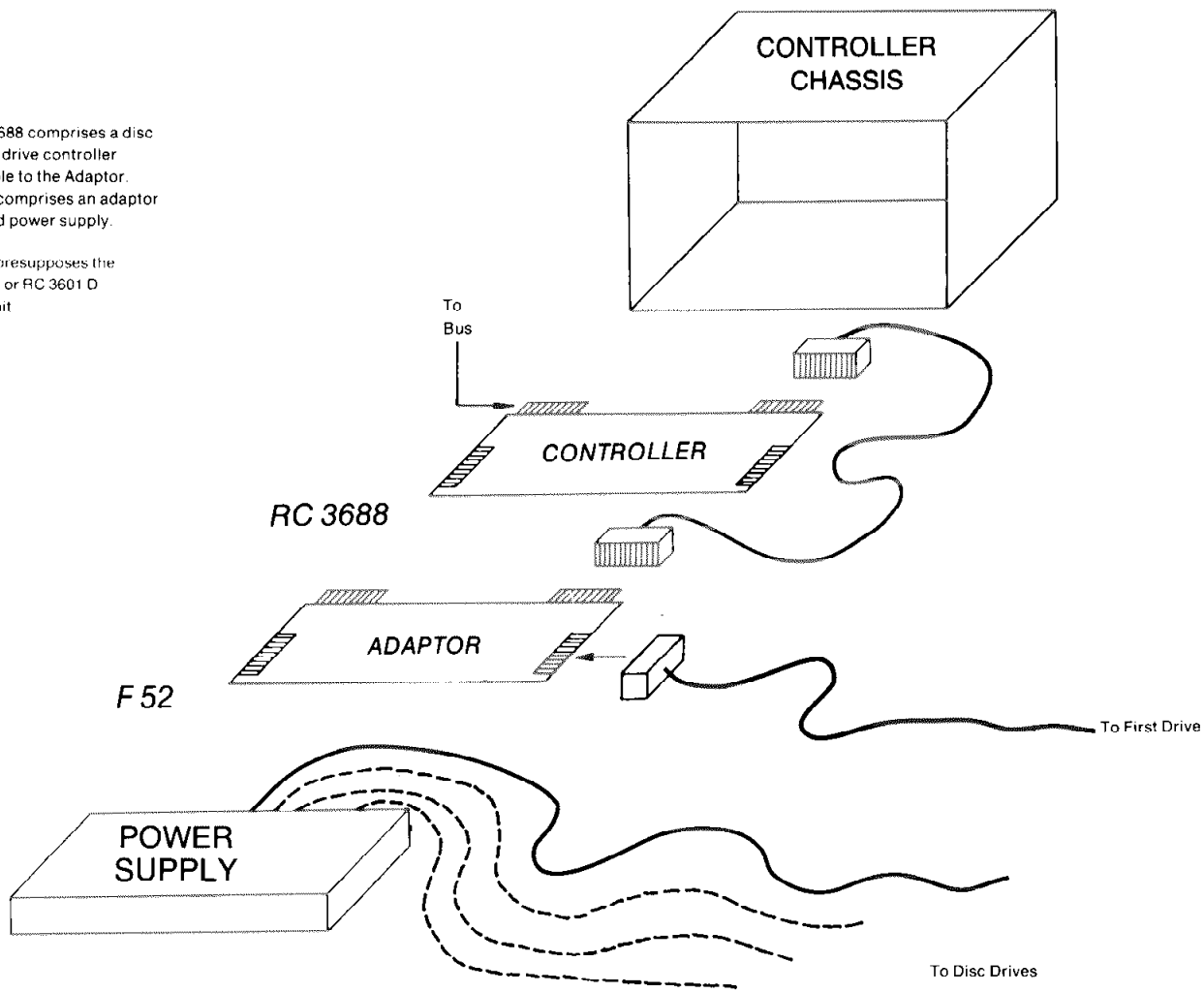


The RC 3688 Moving Head Disc Channel is connected to the F 52 Cartridge Drive Adaptor. Up to four moving head disc cartridge drives may be linked to the system via the RC 3688 and the F 52. The F 52 is specific to the type of disc drive used, and it is connected directly to the first of a chain of up to four moving head disc cartridge drives.

SPECIFICATIONS

Data Transfer	16-bit words parallel, using direct memory access
Feature	F 52 Disc Cartridge Drive Adaptor

- The RC 3688 comprises a disc cartridge drive controller and a cable to the Adaptor. The F 52 comprises an adaptor board and power supply.
- The units presupposes the RC 3601 C or RC 3601 D Central Unit



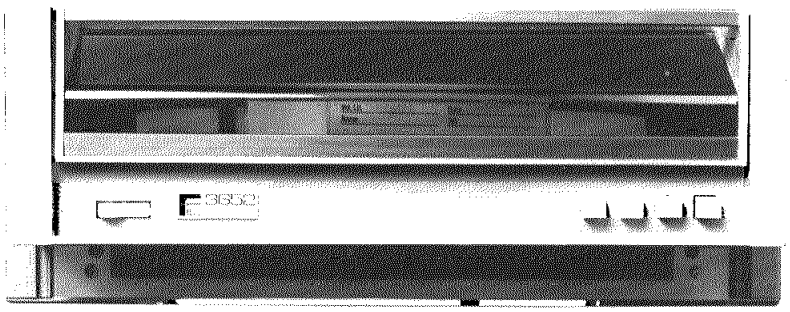
SPECIFICATIONS

	RC 3688	F 52
Ambient Temperature	16–32 °C (60–90 °F)	10–40 °C (50–104 °F)
Relative Humidity	20–80% (no condensation)	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures	10 W, 8.6 KCAL/h, 34.2 BTU/h
Dimensions	Standard Controller Board	Standard Controller Board
Weight	Standard Controller Board	Standard Controller Board
Mounting	1 slot in Controller Chassis	1 slot in Controller Chassis

Note: The Adaptor includes a power supply for the disc drives, which requires 3 1/2 inches in cabinet height.

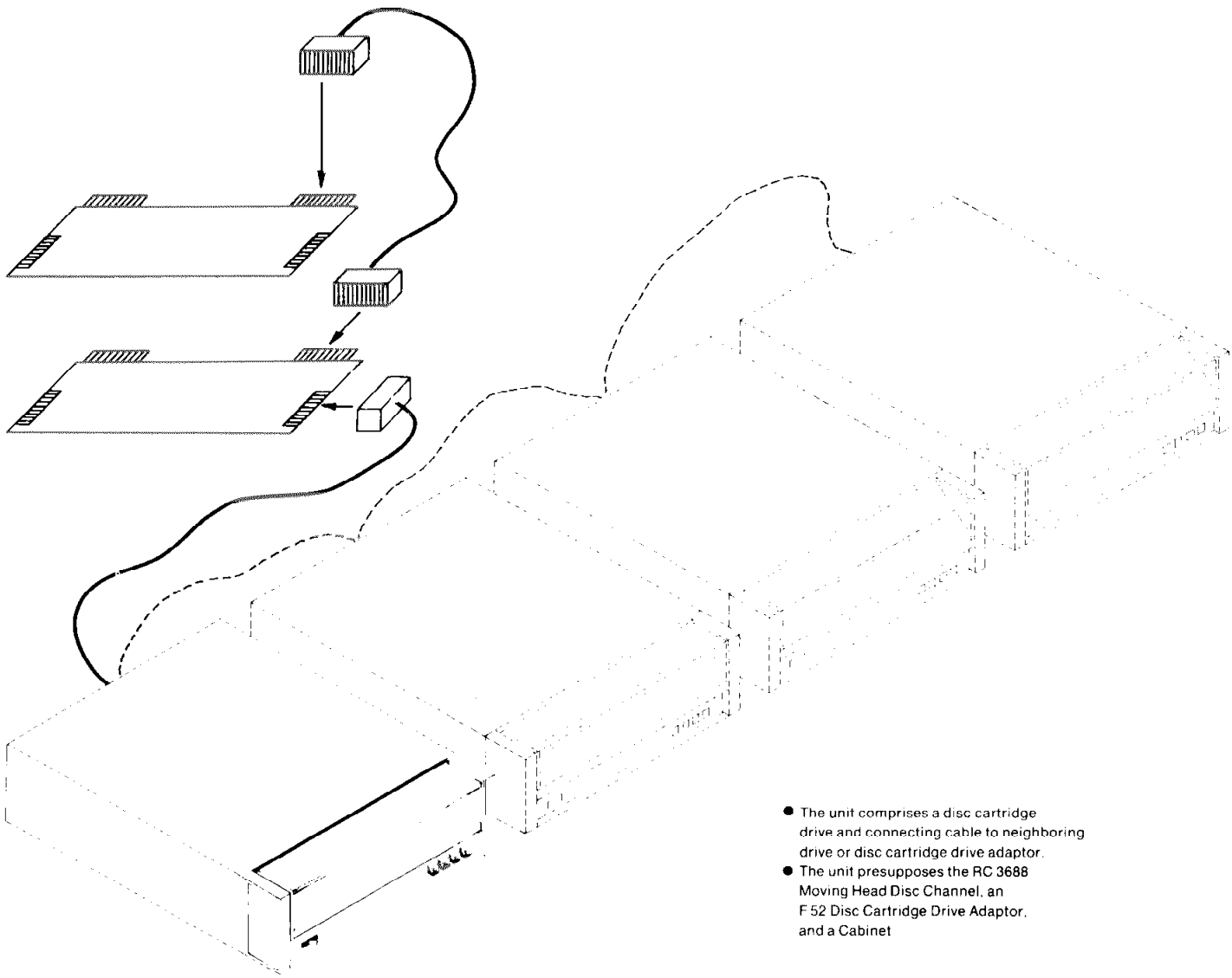
RC 3652 2.4 MB DISC CARTRIDGE DRIVE

The RC 3652 disc cartridge drive is a random access storage device, which uses a single, removable magnetic disc cartridge as storage medium, and has two moving heads. It has a maximum capacity per disc of 24 million bits, equivalent to 3 million 8-bit bytes (1.5 million bytes on each side) of these, 2.4 million bytes are available for data.



SPECIFICATIONS

Storage Medium	
Type	Single-disc magnetic cartridge
Diameter	15 inches
Lateral Track Density	100 tracks per inch (0.01 inch center-to-center track spacing)
Magnetic Heads	Two IBM 2314 compatible moving heads
Recording Format	
Tracks	406 (200 plus 3 spares on each side of the disc)
Cylinders	203 (two tracks each)
Sectors	4872, using a 12 sector disc
Bit Capacities	
Per Disc	24 million (12 million on each side)
Per Inch	2200 (innermost track)
Per Cylinder	120,000
Per Tracks	60,000
Per Sector	5,000
	Note: A sector is the smallest block of information on any single disc.
Access Time	
Disc Rotation	1500 revolutions per minute (± 1%)
Average Latency	20 milliseconds (half rotation)
Maximum Head Positioning Including Settling Time	
For Adjacent Tracks	15 milliseconds
Average	70 milliseconds
For 200 Track Movement	135 milliseconds
Bit Transfer	
Transfer Code	Double Frequency Recording
Transfer Rate	1562 KHz

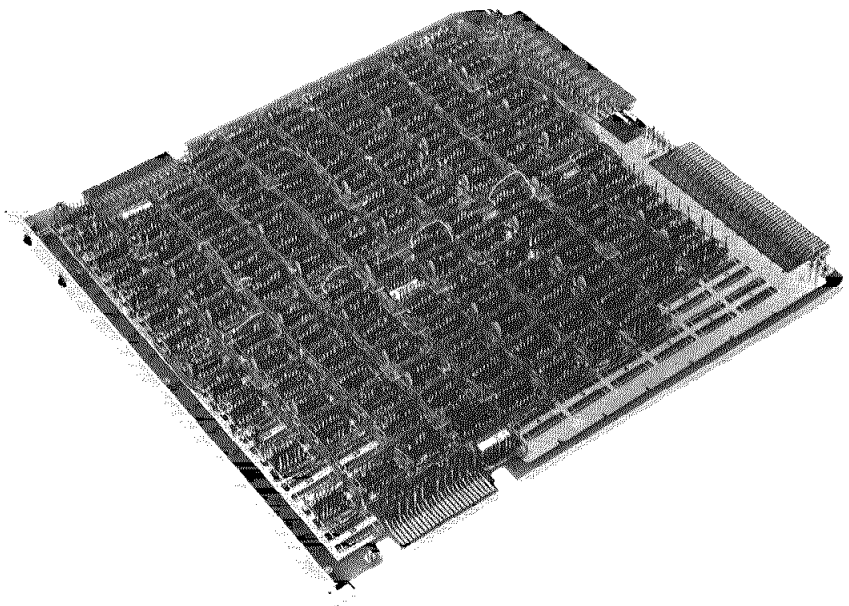


- The unit comprises a disc cartridge drive and connecting cable to neighboring drive or disc cartridge drive adaptor.
- The unit presupposes the RC 3688 Moving Head Disc Channel, an F 52 Disc Cartridge Drive Adaptor, and a Cabinet

SPECIFICATIONS

Ambient Temperature	16–32°C (60–90°F)
	Ambient to assure cartridge interchangeability
Relative Humidity	20–80% (no condensation)
Heat Dissipation	
Start	280 W, 240K CAL/h, 956 BTU/h
Run	70 W, 60K CAL/h, 239 BTU/h
Dimensions	
Height	17.8 cm (7 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	19.5 kg (43 lbs)
Mounting	F 92 Midi Cabinet
	F 93 High Cabinet
	F 95 Medium Cabinet

RC 3680C BSC CHANNEL

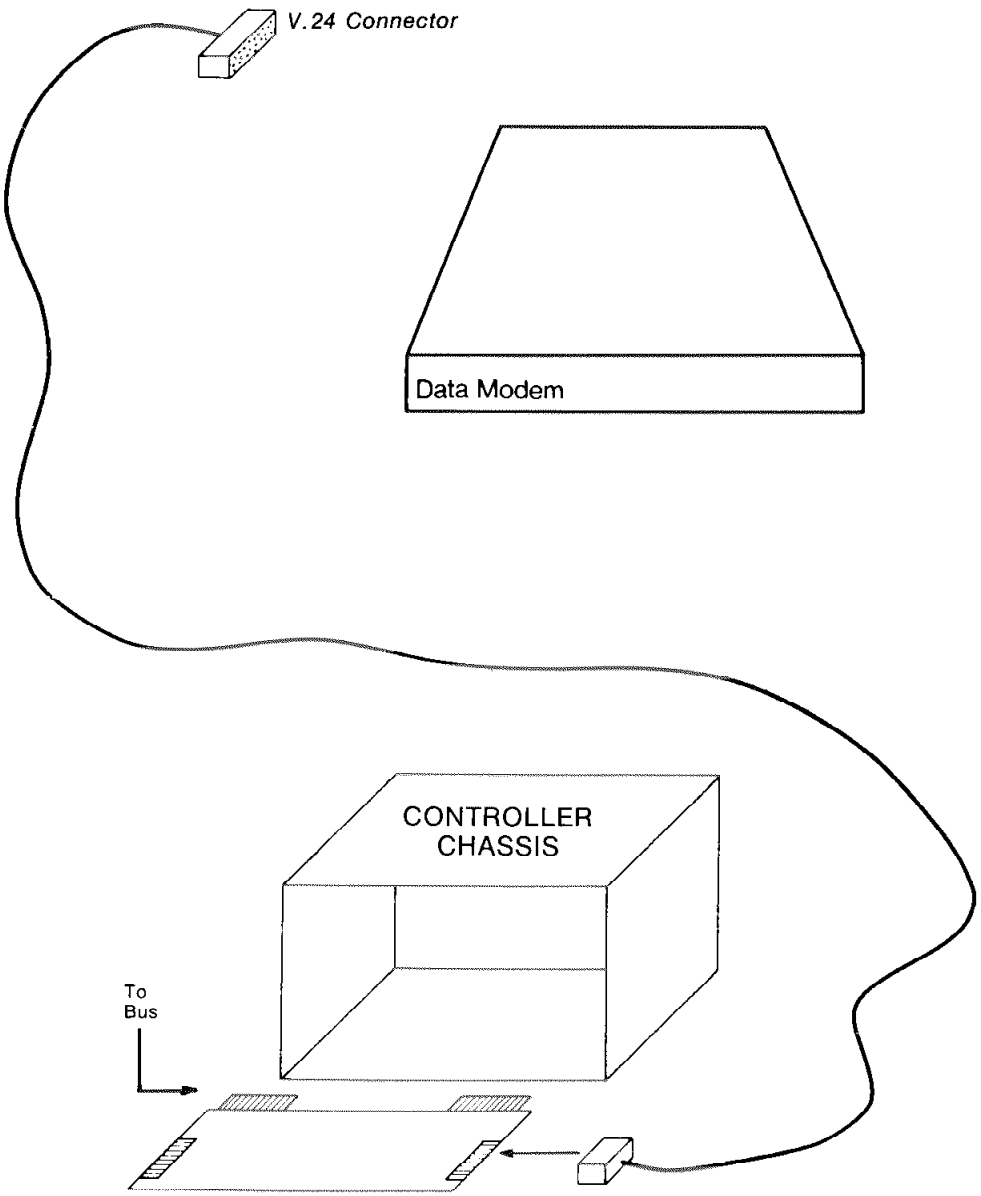


The RC 3680C BSC Channel interfaces the system to any synchronous half duplex or full duplex modem, operating in accordance with CCITT recommendation V. 24 at speeds of up to 20,000 bits per second. The channel may be equipped with the F 80 Clock Feature.

SPECIFICATIONS

Speed	Up to 20,000 bps, as determined by modem
Data Format	Serial synchronous with 6, 7, or 8 bits, determined by the program
Transmission Control Characters	Freely specifiable by program
Communications Protocol	Freely specifiable by program
Signal Levels	As specified in CCITT recommendation V. 28
Signals Used (V. 24)	Signal ground Transmitted data Received data Request to send Ready for sending Dataset ready Data terminal ready Received carrier Transmitter clock Receiver clock Data signaling rate Calling indicator
Feature	F 80 Clock Feature Available clock speeds: 2400, 4800, 9600 bps

COMMUNICATIONS

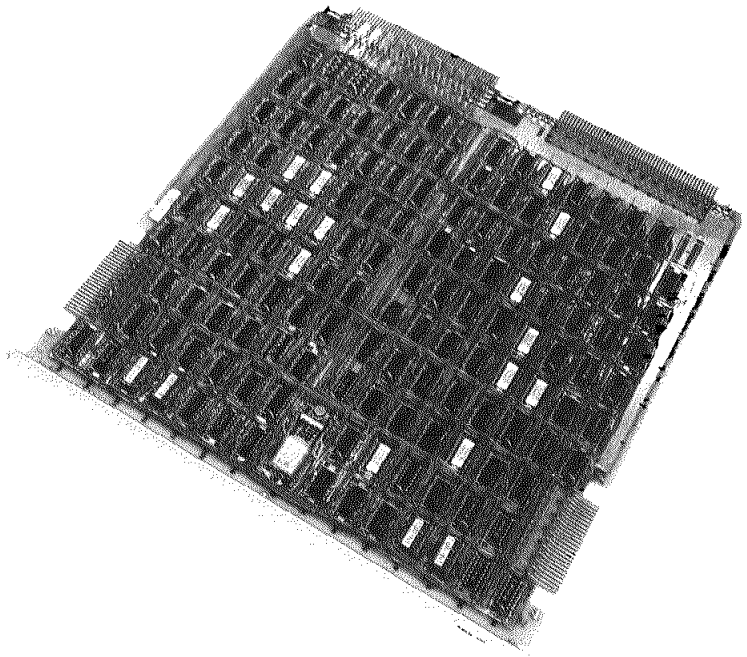


- The unit comprises a controller and connecting cable to the modem.
- The unit presupposes the RC 3601 C or RC 3601 D Central Unit.

SPECIFICATIONS

Ambient Temperature	10–40 °C (50–104 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	Standard controller board
Weight	Standard controller board
Mounting	Any slot in Controller Chassis

RC 3681 4 LINE BSC MULTIPLEXER

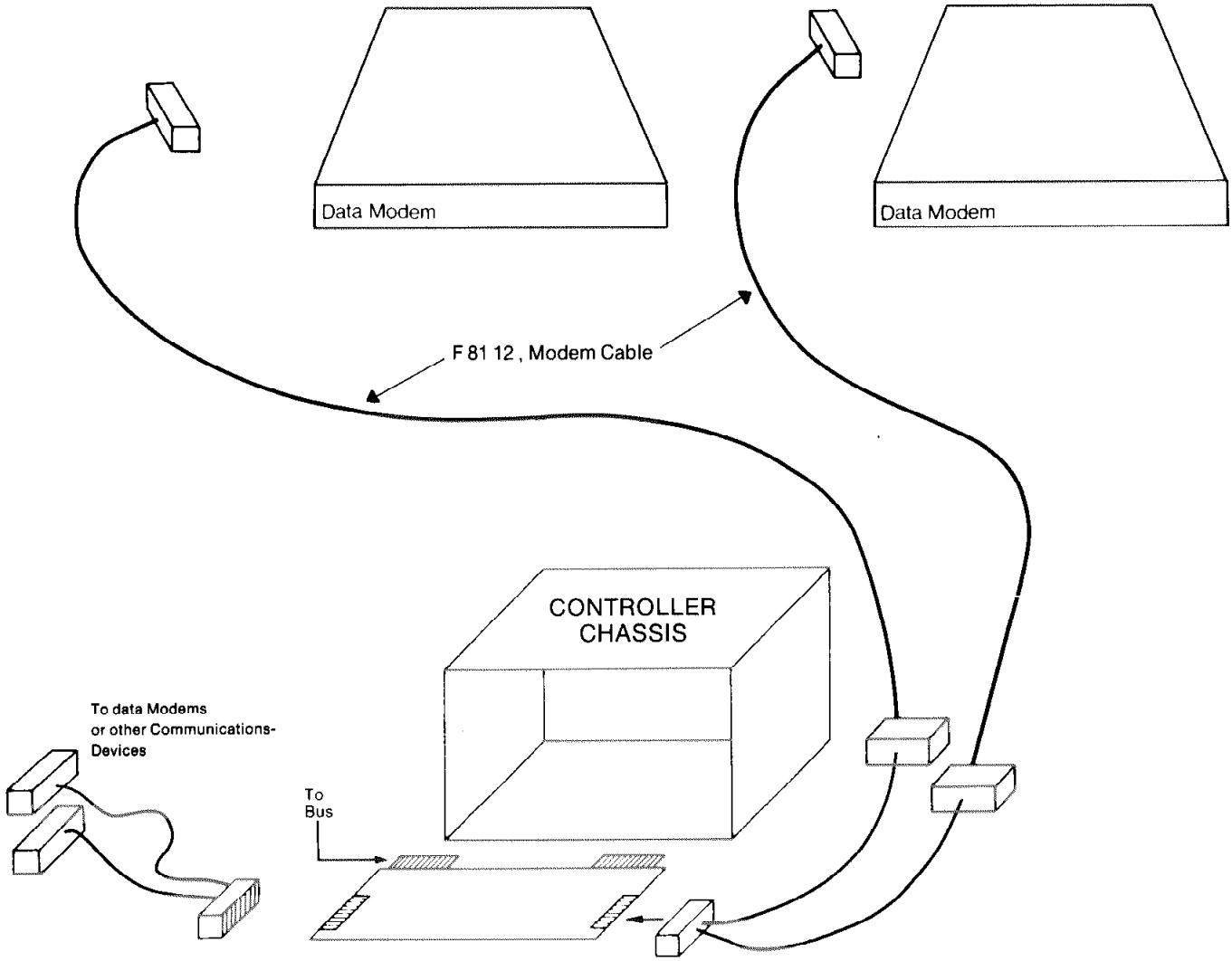


The RC 3681 synchronous multiplexer is capable of communicating on up to four half duplex or full duplex lines. A channel can either be connected to a modem that will supply the clock or directly to another synchronous communication controller, in which case the RC 3681 can supply the clock.

SPECIFICATIONS (PER CHANNEL)

Speed	Up to 9600 bps, as determined by modem
Data Format	Serial synchronous with 6, 7, or 8 bits per character, determined by program
Internal Clock	1200, 2400, 4800, or 9600 bits per second, determined by strapping
Signal Levels	As specified in CCITT recommendation V. 28
Signals Used (V. 24)	Signal ground Transmitted data Received data Request to send Ready for sending Dataset ready Data terminal ready Received carrier Transmitter clock Receiver clock Signaling rate Calling indicator
Feature	F 81 12 meter Modem Cable

COMMUNICATIONS



- The unit comprises a multiplexer, but not the Modem Cables.
- The unit presupposes an RC 3601 C or RC 3601 D Central Unit.

SPECIFICATIONS (UNIT)

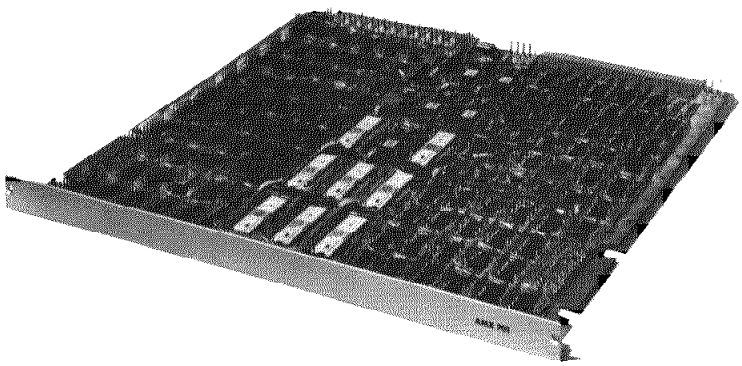
Ambient Temperature	10–40 °C (50–104 °F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	Standard controller board
Weight	Standard controller board
Mounting	Any slot in Controller Chassis

COMMUNICATIONS

RC 3682 8 LINE ASYNCHRONOUS MULTIPLEXER

F 82 8 LINE V. 24 JUNCTION PANEL
F 86 8 LINE CURRENT LOOP JUNCTION PANEL

The RC 3682 asynchronous multiplexer is capable of communicating on up to eight half duplex or full duplex lines. A channel can either be contected to a modem, to another asynchronous communication controller or to an asynchronous terminal.
The F 82 8 Line V. 24 Junction Panel Feature serves to separate the output lines from the multiplexer into 8 connectors fulfilling the CCITT V. 24 recommendations.
The F 86 8 Line Current Loop Junction Panel serves to separate the output lines into 8 connectors fulfilling the RC current loop specifications.

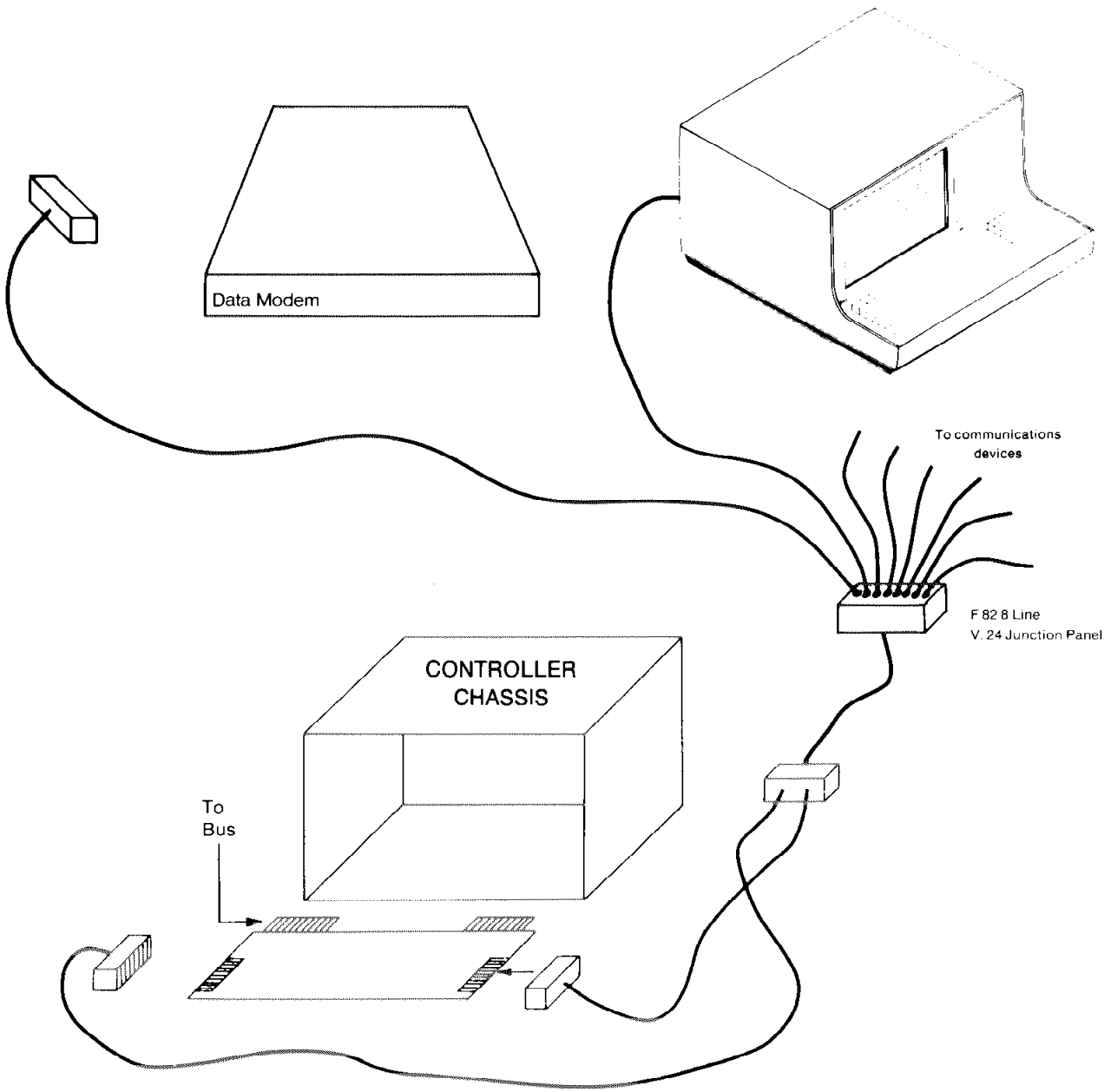


SPECIFICATIONS (PER CHANNEL)

Data Format	Serial asynchronous with 5, 6, 7, or 8 bits per character, determined by program 1 or 2 stop bits Generation/detection of parity
Speeds	40, 50, 75, 110, 134.5, 150, 200, 220, 300, 600, 1200, 2400, 4800, or 9600 bps determined by program
Signal Levels	As specified in CCITT recommendation V. 28
Signals Used (V. 24)	Signal ground Transmitted data Received data Request to send Ready for sending Dataset ready Data terminal ready Received carrier Calling indicator Power on (not V. 24)
Features	F 82 8 Line V. 24 Junction Panel F 86 8 Line Current Loop Junction Panel

COMMUNICATIONS

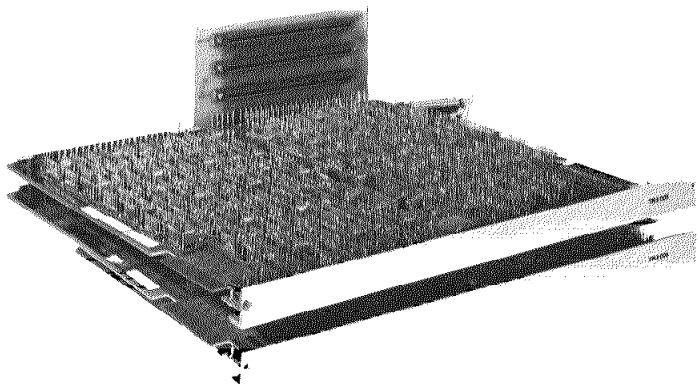
- The RC 3682 comprises a multiplexer, but not external cables.
  The F 82 comprises a V. 24 Junction Panel, but not external cables.
- The RC 3682 presupposes an RC 3601 C or RC 3601 D Control Unit.



SPECIFICATIONS (UNIT)

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	Standard controller board
Weight	Standard controller board
Mounting	Any slot in Controller Chassis

RC 3683 64 CHANNEL ASYNCHRONOUS MULTIPLEXER



The RC 3683 asynchronous multiplexer consists of a control module housed in its own special controller chassis. It is the controller for the F 83 16 Line Modem Adaptor and the F 84 4 Line Telex Adaptor. When used with the F 83, it consists of two boards, but when used with the F 84, it consists of three boards.

The RC 3683 can simultaneously control both full- and half-duplex equipment. This is done under the following principle: each half-duplex line accommodates one multiplexer channel and each full-duplex line accommodates two multiplexer channels.

The adaptors enable the RC 3683 to simultaneously control communications devices with different transmission speeds, number of data bits per character, and number of stop bits. This is further explained on the pages on adaptors for the RC 3683.

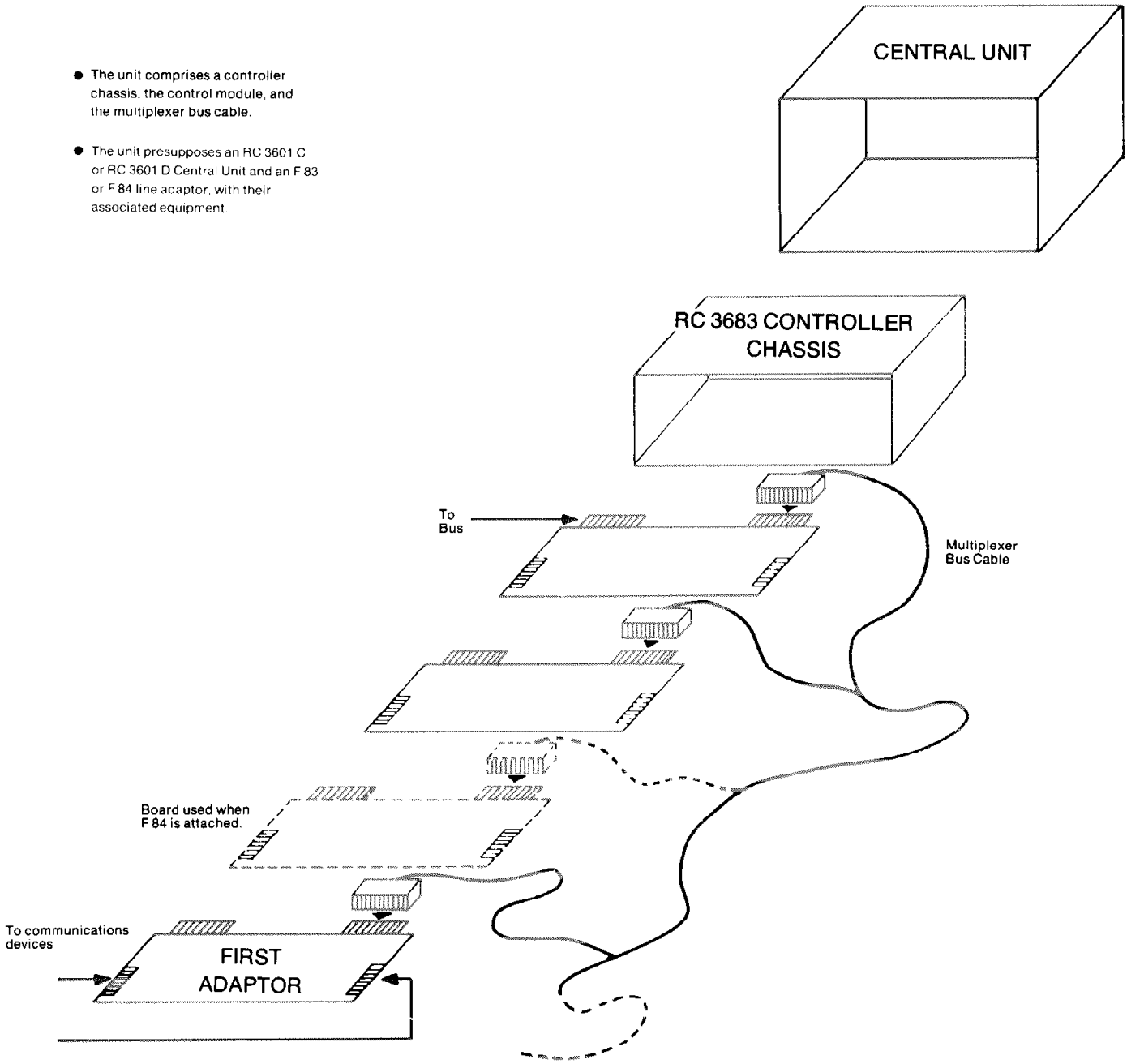
The RC 3683 special controller chassis has room for up to three adaptors. Additional adaptors can be housed in F 09 Additional Controller Chassis, in a special version.

SPECIFICATIONS

Data Format	Serial asynchronous with 1 start bit, 5, 6, 7, or 8 data bits, and 1, 1.5, or 2 stop bits
Transmission Speeds	Depends on adaptors
Speed Stability	Better than 0.01%
Distortion	35% maximum on received data 0.2% maximum on transmitted data Spurious start pulses with a duration of less than 0.5 bit time are rejected
Features	F 83 16 Line Modem Adaptor F 84 4 Line Telex Adaptor

COMMUNICATIONS

- The unit comprises a controller chassis, the control module, and the multiplexer bus cable.
- The unit presupposes an RC 3601 C or RC 3601 D Central Unit and an F 83 or F 84 line adaptor, with their associated equipment.



SPECIFICATIONS

Number of slots	2 or 3
Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	400 W maximum, 344 KCAL/h, 1365 BTU/h
Dimensions	
Height	17.7 cm (7 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	22 kg (48 lbs)
Mounting	F 92 Midi Cabinet
	F 93 High Cabinet
	F 95 Medium Cabinet

COMMUNICATIONS

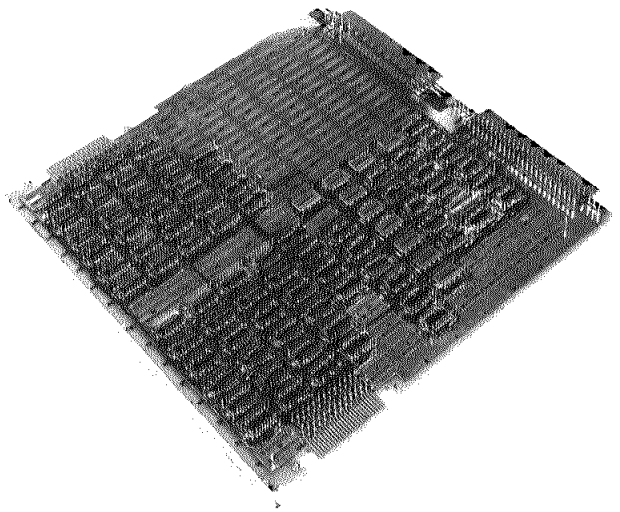
F 83 16 LINE MODEM ADAPTOR
F 82 8 LINE V. 24 JUNCTION PANEL
F 86 8 LINE CURRENT LOOP JUNCTION PANEL

Up to four F 83 16 Line Modem Adaptors may be connected to the RC 3683 64 Channel Asynchronous Multiplexer. The F 83 is a 2×8 line modem adaptor. For each group of eight lines a number of parameters can be independently selected: channel mode, transmission speed, number of data bits per character, and number of stop bits.

Channel mode may be half- or full-duplex. The F 83 may, therefore, be configured for 2×8 full-duplex lines, 8 full- and 8 half-duplex lines, or 2×8 half-duplex lines, occupying respectively 32, 24, or 16 multiplexer channels on the RC 3683.

The F 83 is connected to a communications device via the F 82 8 Line V. 24 Junction Panel or the F 86 8 Line Current Loop Junction Panel.

The F 82 8 Line V. 24 Junction Panel serves to separate the output lines from the F 83 into 8 connectors fulfilling the CCITT V. 24 recommendations.



The F 86 8 Line Current Loop Junction Panel serves to separate the output lines from the F 83 into 8 connectors fulfilling the RC current loop specifications.

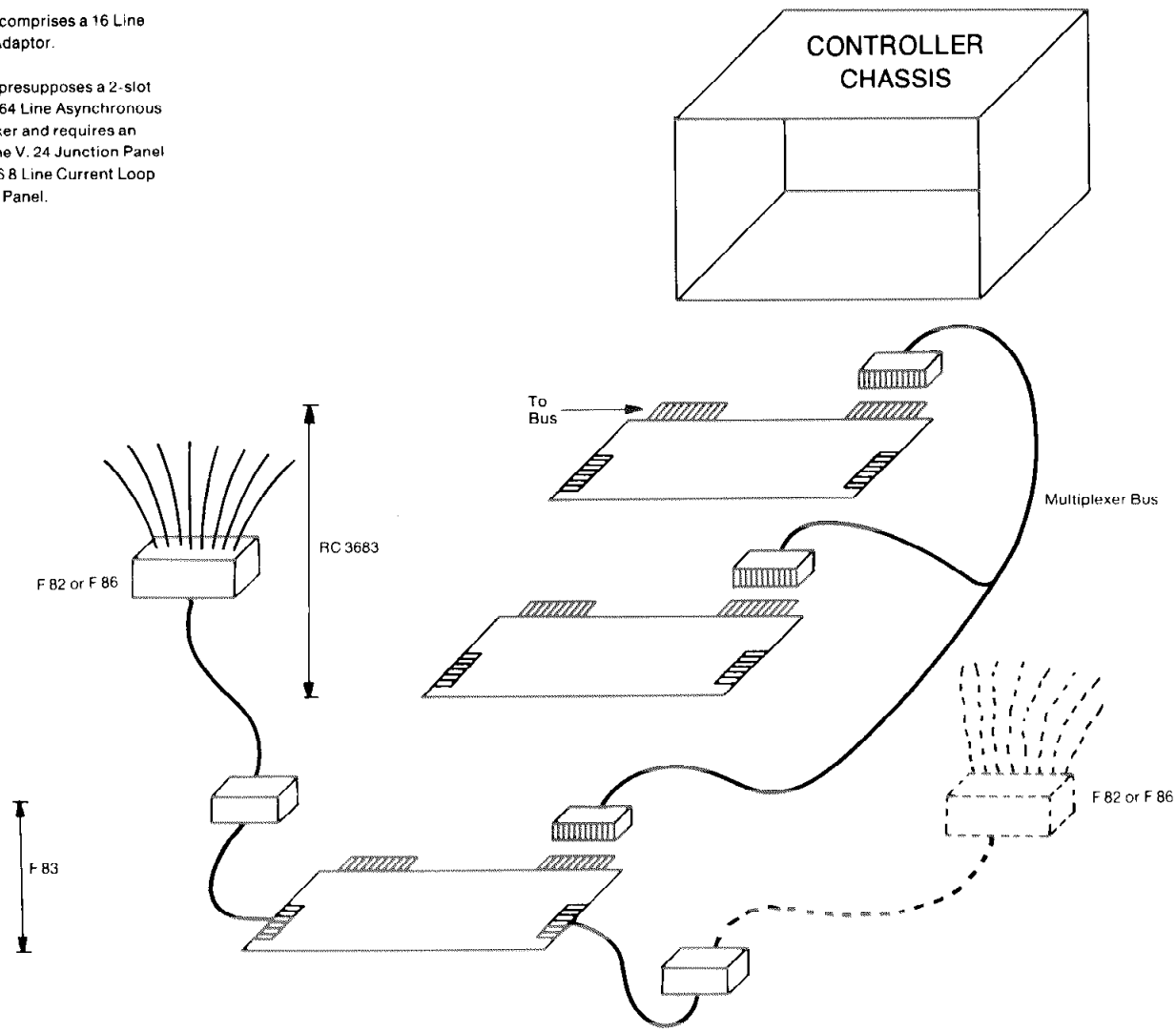
SPECIFICATIONS

F 83 16 Line Modem Adaptor Channel Mode	2×8 full-duplex	8 full-duplex 8 half-duplex	2×8 half-duplex
Number of Multiplexer Channels Required	32	24	16

Junction Panels	**F 82**	**F 86**
Number of Lines	8 half- or full-duplex	8 half- or full-duplex
Signal Levels	As in CCITT recommendation V. 28	Logical one: +20 mA Logical zero: 0 mA
Transmission Speeds	2400/n, where n is an integer between 1 and 64	2400/n, where n is an integer between 1 and 64
Signals Used	Signal ground Transmitted data Received data Dataset ready Data terminal ready Received carrier Calling indicator	Two current loops are used in full-duplex and One current loop is used in half-duplex

COMMUNICATIONS

- The F 83 comprises a 16 Line Modem Adaptor.
- The F 83 presupposes a 2-slot RC 3683 64 Line Asynchronous Multiplexer and requires an F 82 8 Line V. 24 Junction Panel or an F 86 8 Line Current Loop Junction Panel.

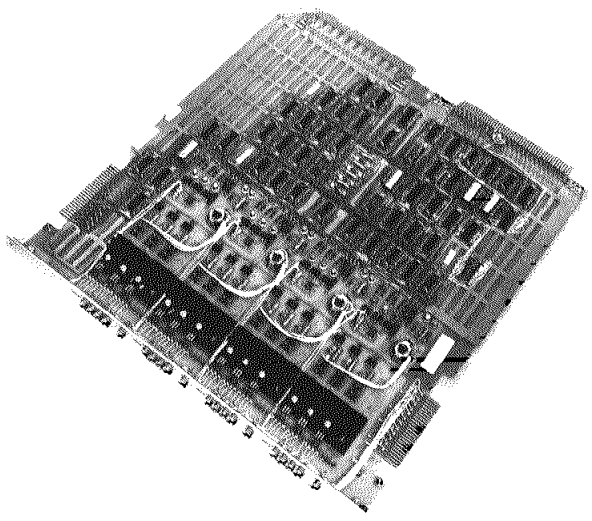


SPECIFICATIONS

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	Standard controller boards
Weight	Standard controller boards
Mounting	
Control Module	2 slots in Controller Chassis
Each Line Adaptor	1 slot in Controller Chassis
Junction Panel	Rear rack frame

F 84 4 LINE TELEX ADAPTOR

F 85 8 LINE TELEX JUNCTION PANEL



Up to sixteen F 84 4 Line Telex Adaptors may be connected to the RC 3683. Each F84 contains four half-duplex channels and is controlled by the RC 3683 with three boards. The following parameters may be selected independently for each F 84: transmission speed, number of data bits per character, and number of stop bits. If fewer than twelve F84's are connected to an RC 3683, then F 83, operated as 16 line half-duplex, can also be connected to the same RC 3683.

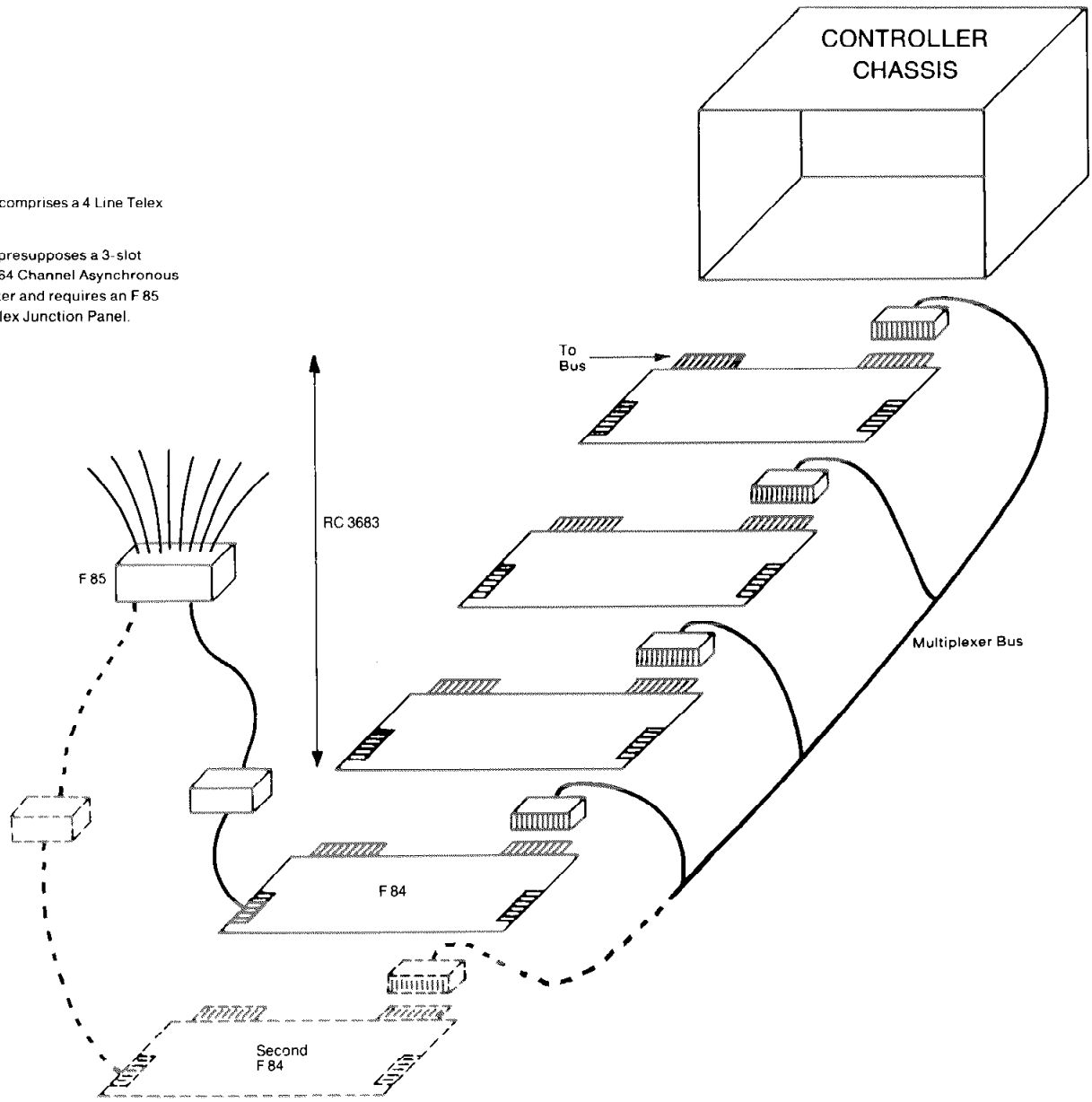
Each pair of F 84's requires one F 85 8 Line Telex Junction Panel, which is a device containing 8 channels and the telex network protection circuitry, and is connected directly to the telex network.

SPECIFICATIONS

Number of Lines	4 half-duplex
Number of Multiplexer Channels Required	4
Signal Levels	7 mA, 40 mA, −40 mA, supplied by the telex network
Transmission Speed	2400/n, where n is an integer between 1 and 256, normally 50 bauds
Features	F 85 8 Line Telex Junction Panel

COMMUNICATIONS

- The F 84 comprises a 4 Line Telex Adaptor.
- The F 84 presupposes a 3-slot RC 3683 64 Channel Asynchronous Multiplexer and requires an F 85 8 Line Telex Junction Panel.



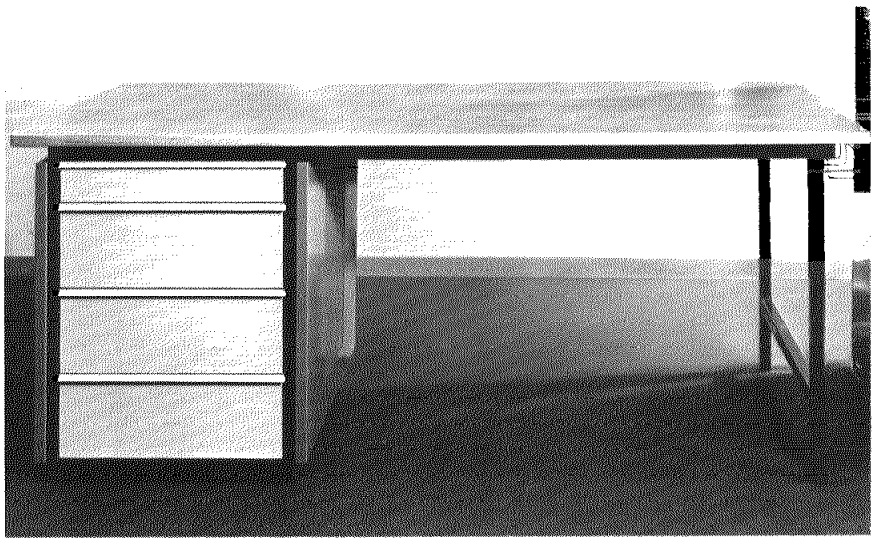
SPECIFICATIONS

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80% (no condensation)
Heat Dissipation	Included in Central Unit figures
Dimensions	Standard controller boards
Weight	Standard controller boards
Mounting	
Control Module	3 slots in Controller Chassis
Each Line Adaptor	1 slot in Controller Chassis
Junction Panel	Rear rack frame

RC 3600 SERIES CABINETS

Available units are:

F 90 Low Cabinet
F 91 Desk Top Cabinet
F 92 Midi Cabinet
F 93 High Cabinet
F 94 Reader Stand
F 95 Medium Cabinet
F 97 7 Inch Drawer
F 98 3 1/2 Inch Drawer



F 91 Desk Top Cabinet with Drawers added.

RC 3600 Series units intended for cabinet mounting may use the F 90 Low Cabinet, F 91 Desk Top Cabinet, F 92 Midi Cabinet, F 93 High Cabinet or F 95 Medium Cabinet. Space in the F 94 Reader Stand can *not* be used for RC 3600 components, as no provision is made in it for operating electronic equipment.

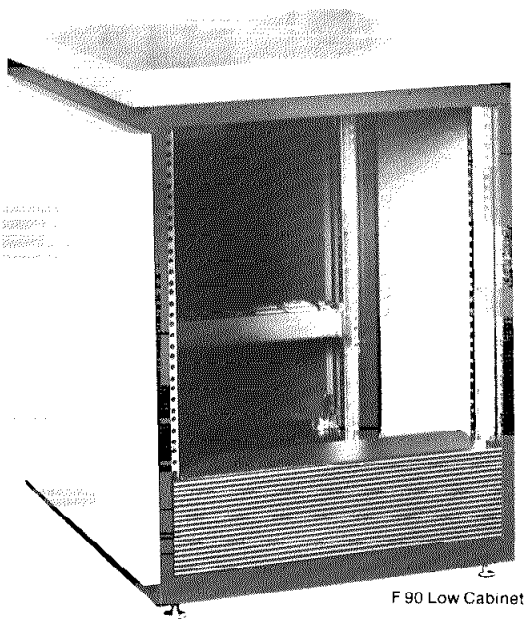
When calculating available rack space, allowance must be made for the fan, which occupies 13.4 cm (5¼ inches).

Units indicated for desk top mounting, such as card readers, paper tape readers and punch, and the alpha-numeric keyboard-display, may be located on the Desk Top Cabinet.

Optional 7 inch (F 97) and 3½ inch (F 98) storage drawers may be mounted in any cabinet in which there is no electronics except the F 94 Reader Stand.

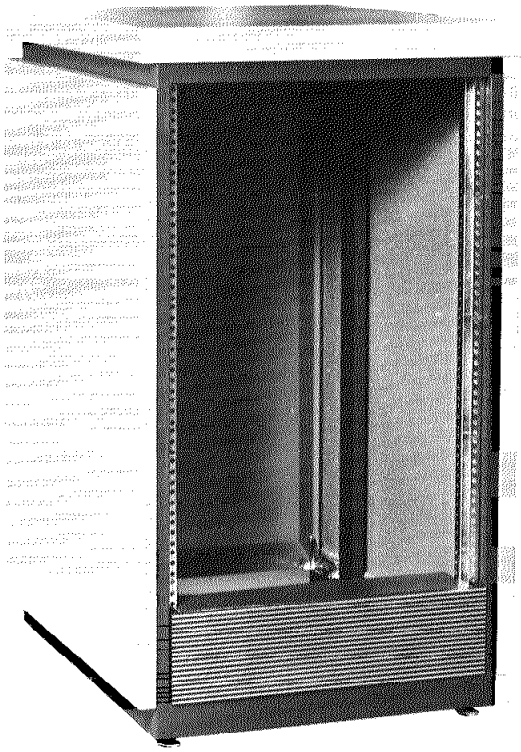
Every cabinet will be supplied with a front panel to cover any remaining space or equipment to which access is not required for normal operating purposes.

All cabinets equipped with an AC power distribution panel and a ventilation fan fitted with an air filter have ventilation capacity adequate to maintain all equipment mounted in a fully loaded cabinet within its operating temperature limits, provided that the ambient temperature remains within the specified range.

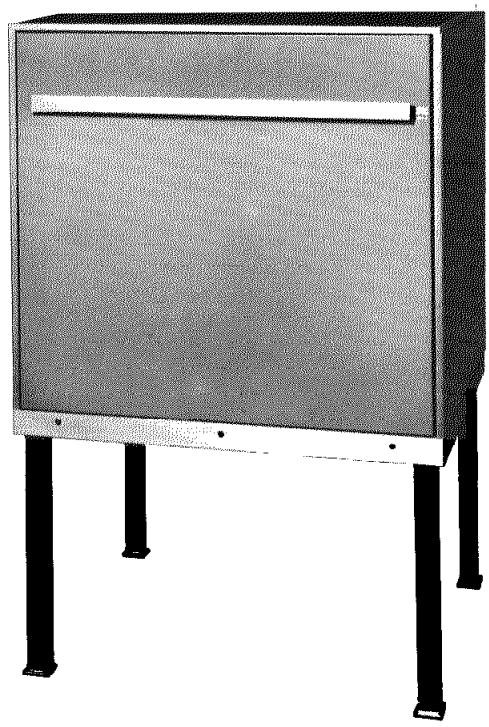


F 90 Low Cabinet

CABINETS AND ACCESSORIES



F 92 Midi Cabinet with Fan

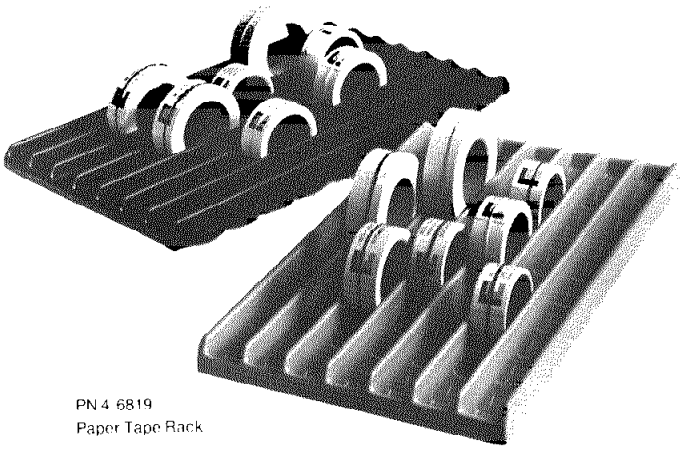


F 94 Reader Stand

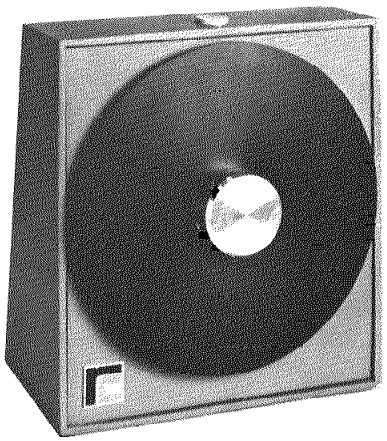
SPECIFICATIONS

	F 91 Desk Top Cab.	F 90 Low Cab.	F 92 Midi Cab.	F 95 Med. Cab.	F 93 High Cab.	F 94 Reader Stand
Free Rack Space	49.2 cm (19³/₈")	49.2 cm (19³/₈")	75.6 cm (29³/₄")	111.2 cm (43³/₄")	146.7 cm (57³/₄")	—
External Dimensions						
Height	74 cm (29¹/₈")	76 cm (30")	104.5 cm 41¹/₄")	140.1 cm (55¹/₄")	176 cm (69¹/₄")	80 cm (31¹/₂")
Width	180 cm (70⁷/₈")	57.5 cm (22⁵/₈")	57.5 cm (22⁵/₈")	57.5 cm (22⁵/₈")	57.5 cm (22⁵/₈")	52 cm (20¹/₂")
Depth	80 cm (31¹/₂")	80 cm (31¹/₂")	80 cm (31¹/₂")	80 cm (31¹/₂")	80 cm (31¹/₂")	51 cm (20")
Approximate Weight	97.5 kg (215 lbs)	50 kg (110 lbs)	56 kg (124 lbs)	69 kg (152 lbs)	82.5 kg (183 lbs)	15 kg (33 lbs)
Heat Dissipation	30 W, 26 KCAL/h, 102 BTU/h (fan, without other electronics)					No electronics
Ventilation Capacity	250 m³/h, 8830 ft³/h, 1 kW with ambient temperature max. 30°C					
Optional Features	7" drawer (F 97) 3¹/₂" drawer (F 98)					

ACCESSORIES



PN 4 6819
Paper Tape Rack



PN 1 4217
Paper Tape Winder

Consoles

F12	KSR Teletype	PN 1-8611	Roll of paper, 210 mm × 80 m
		PN 1-8819	Black nylon ribbon, 13 mm × 10 m
F14	Silent Printer/keyboard		
		PN 5-4400	Roll of thermal paper, 215 mm × 100 m

Magnetic Tape

"S" Series Magnetic Tape Units

PN 3-9802	300 ft magnetic tape
PN 3-8904	1200 ft magnetic tape
PN 3-2611	2400 ft magnetic tape
PN 3-3215	Head cleaner
PN 3-3209	60 cotton swabs
PN 2-4808	Photo sensing marker

RC 3625 Cassette Tape Unit

PN 5-1912	ECMA 34 cassette tape
PN 2-0408	Head cleaner
PN 3-3209	60 cotton swabs

Discs

RC 3650 Flexible Disc Drive

PN 4-7012	IBM-compatible flexible disc

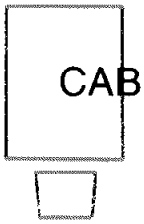
RC 3652 Disc Cartridge Drive

PN 4-5908	Disc pack

Card Readers

RC 3671 C 300 cpm 80 Column Card Reader
RC 3672 C 600 cpm 80 Column Card Reader

PN 2-0408	Pick shoe cleaner



CABINETS AND ACCESSORIES

Card Reader Punches

RC 3660 Card Reader Punch
RC 3661 Printing Card Reader Punch
RC 3662 Printing Card Reader Punch with Keyboard

PN 2-0408	Cleaner
PN 4-9607	2000 White Punch Cards
PN 5-6303	2000 RC 3600 Binary Cards

Paper Tape Equipment

RC 3665 75 cps Paper Tape Punch
RC 3675 2000 cps Paper Tape Reader
RC 3676 500 cps ISO Paper Tape Reader

PN 2-0301	Roll of 8 channel paper tape, blue
PN 4-6819	Paper tape rack
PN 1-4217	Paper tape winder, 51 mm center
PN 2-0217	Paper tape splicer
PN 2-2009	Splicing Patches
PN 1-8108	8 track mini punch
PN 1-8107	6 track mini punch (olivetti)
PN 2-2009	Splicing tape
PN 1-4219	500 51 mm paper tape bobbins

Printers

RC 3630 Series Line Printers

PN 5-0310	OCR ribbon, $14^1/_2$ in × 30 yards
PN 5-4007	Normal ribbon, $14^1/_4$ in × 20 yards

RC 3641 300 lpm Line Printer
RC 3642 600 lpm Line Printer

PN 4-9910	OCR ribbon, 15 in × 25 yards
PN 5-0311	Normal ribbon, 15 in × 15 yards

RC 3645 1500 lpm 48 ch Charaband Printer

PN 5-4008	OCR ribbon, 15 in × 25 yards
PN 5-4009	Normal ribbon, 15 in × 15 yards

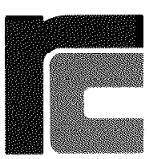
For all of the above printers

PN 3-6418	12 ch VFU hand punch
PN 2-3800	25 12 ch VFU paper tapes
PN 2-0114	Splicing tape, silver, $^1/_2$ inch × 65 meters
PN 1-4600	2000 forms, 12 in × 240 mm
PN 1-4604	1000 forms, $8^1/_3$ in × 326 mm
PN 5-0510	2000 forms, 12 in × 380 mm
PN 2-4905	Cleaning paper

Serial Printers

RC 3638 cps Serial Printer
RC 3639 cps Serial Printer

PN 4-6800	Black nylon ribbon, 25.5 mm × 33 m
PN 1-8108	8 track VFU punch
PN 2-0114	Splicing tape, silver, $^1/_2$ in × 65 m
PN 3-8908	5 m mylar VFU paper tape
PN 1-4600	2000 forms, 12 in × 240 mm
PN 1-4604	1000 forms, $8^1/_3$ in × 326 mm
PN 5-0510	2000 forms, 12 in × 380 mm



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