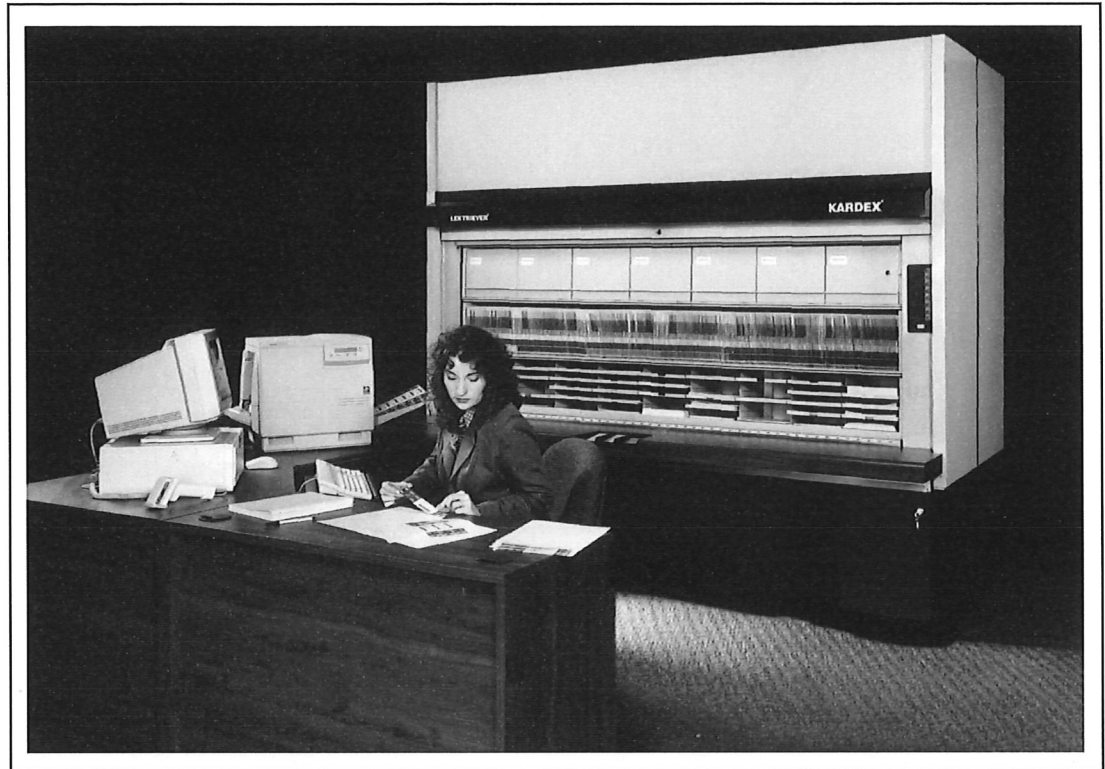




ELM PRODUCT SPECIFICATION MANUAL

LEKTRIEVER[®] 47, 77, 102, 116, 130

KARDVEYER[®]

This ELM specification manual is a publication of the Marketing Department of Kardex Systems, Inc., Marietta, Ohio. The information within was written to support the field sales force. The user of this manual is encouraged to contact the Marketing Department to clarify technical questions. All information contained herein is subject to change without notice.

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SECTION I — LEKTRIEVER 47 PATHOLOGY UNIT

General Information and Product Specifications

DIMENSIONS

Unit Heights: (13" Pitch)

95 1/2"	10 carriers
107 1/2"	12 carriers
119 1/2"	14 carriers

UNIT WIDTH:

47.58"

UNIT DEPTH:

59 3/4" Overall with Posting Board

POSTING BOARD:

15" Overall Depth
Extends in front of unit 11 1/2"
Adjustable to sitting or standing position

CARRIERS:

(3 tiers; 5 compartments per tier)
Total Inside Width — 33.7"
Inside Depth — 14.9"

CARRIER CONFIGURATION:

6.781"	6.657"	6.657"	6.657"	6.781"

Maximum Tray Width — 6.592"
Maximum Clear Height — 3.716"

TRAYS:

Inside Width — 6.5"
Inside Depth — 14.6"
Height — 2.75"

TRAY INSERTS:

Standard inserts are for 1" wide slides or blocks. For other widths contact factory.

6 compartments wide; 8 compartments deep compartments:
Width — 1.07"
* Depth — 2.00"

*Note: Front end and back end rows of compartments are 1.25" deep

MISCELLANEOUS:

All Units include Interfaceable Keyboard Control, Electronic Eye Safety Devices and Safety Touch Bars, Safety Status Panels, and Hand Crank Assembly.

All Units shipped unassembled and must be assembled and erected at customer location.

Reference product specs on page 4, 5, 6, 7.

STANDARD ACCENT PANEL COLORS:

Accent Blue – 024	Rust – 151	Black – 835	Gray Mist – 097
Corporate Green – 161	Salem Blue – 164	Fog – 961	Heather Beige – 093
Golden Tan – 130	Slate Blue – 015	Oyster – 929	
Pearl Gray – 020	Vintage Grape – 165	Sand – 607	
Quincy Blue – 166	Wall Street Gray – 163	Fawn Beige – 023	
Rimfire Roan – 162	Putty – 403	Light Gray – 150	

Base is black, interior is pearl gray and trays are pearl gray.

POSTING BOARD TOPS - One piece molded laminate with rounded edges. Laminates available are:

Gunstock Walnut	Blue Nebula
Erin	Windsor Mahogany
Spektrum	Blue Moraine
Hunter Nebula	

UNIT CAPACITY

MEDIA	UNIT CAPACITY						TRAYS PER CARRIER
	(8') 10 Carriers		(9') 12 Carriers		(10') 14 Carriers		
	Filing"	Media	Filing"	Media	Filing"	Media	
1 X 3" Micro slides	13,131	218,700	15,757	262,440	18,383	306,180	5 per tier 15 per carrier
Paraffin Blocks 1/4" thickness 1/2" thickness	10,940 10,940	39,600 19,800	13,128 13,128	47,520 23,760	15,316 15,316	55,440 27,720	5 per tier 15 per carrier

UNIT WEIGHTS

CATALOG NUMBER	DESCRIPTION	NO OF CAR	WGT PER BASIC UNIT	WGT PER CAR	WGT* CAR INT	TOTAL UNIT WGT	TOTAL MEDIA PER 100% LOAD**	TOTAL WGT UNIT & MEDIA	TOTAL UNIT SHIP WGT
2077600-072	Pathology Unit	10	1266	36	30	1935	3199	5125	2230
2077600-073	Pathology Unit	12	1302	36	30	2094	3839	5933	2486
2077600-074	Pathology Unit	14	1344	36	30	2268	4479	6747	2790

Maximum weight per carrier - 349 lbs. (media & trays)

* weight of trays

** based on 1" X 3" glass slides

SECTION II – LEKTRIEVER 77, 102, 116, 130 GENERAL INFORMATION

DIMENSIONS:

UNIT HEIGHTS		PITCH	CARRIERS	PITCH	CARRIERS
	95 1/2"	11"	14	13"	10
	107 1/2"	11"	16	13"	12
	119 1/2"	11"	18	13"	14
	141"	11"	22	13"	18
UNIT WIDTH	76.70", 102", 115.38", 130.86"				
UNIT DEPTH	48 1/4"	Without Posting Board			
	59 3/4"	With Posting Board			
POSTING BOARD DEPTH	15" Overall				
	11 1/2" Extension beyond front of unit				
FROM FLOOR TO TOP OF POSTING BOARD					
	11" Pitch:				
		Sitting Position - 29 1/2"	Standing Position - 40 1/2"		
	13" Pitch:				

STANDARD ACCENT PANEL COLORS:

Accent Blue – 024	Rust – 151	Black – 835	Gray Mist – 097
Corporate Green – 161	Salem Blue – 164	Fog – 961	Heather Beige – 093
Golden Tan – 130	Slate Blue – 015	Oyster – 929	
Pearl Gray – 020	Vintage Grape – 165	Sand – 607	
Quincy Blue – 166	Wall Street Gray – 163	Fawn Beige – 023	
Rimfire Roan – 162	Putty – 403	Light Gray – 150	

Base is black, interior is pearl gray and trays are pearl gray.

POSTING BOARD TOPS - One piece molded laminate with rounded edges. Laminates available are:

Gunstock Walnut	Blue Nebula
Erin	Windsor Mahogany
Spektrum	Blue Moraine
Hunter Nebula	

SHIPPING TERMS: F.O.B. Factory; Factory Point - Marietta, Ohio

MISCELLANEOUS:

All Units include Interfaceable Keyboard Control, Electronic Eye Safety Devices and Safety Touch Bars, Safety Status Panels, and Hand Crank Assembly.

All Units shipped unassembled and must be assembled and erected at customer location.

LEKTRIEVER

Product Specifications

1.0 Scope

This specification sets forth the general product requirements for the LEKTRIEVER electromechanical filing, storage and retrieval system.

2.0 Power Requirements

The LEKTRIEVER shall require a single phase grounded electrical service of 20 amperes with a voltage of 105 VAC to 125 VAC from 50 to 60 Hz. The LEKTRIEVER shall have the Underwriters Laboratories listing on both electrical and mechanical functions. Motor has an intermittent duty rating of 1 1/2 H.P., Maximum Current Rating: Max. Amp. 14.4. Unit is equipped with a 16 amp circuit breaker.

3.0 Human Factors

The location of controls shall be within arm's reach when sitting or standing at the posting board. At the sitting level, the bottom surface of the posting board shall be 26 1/2" from the floor and the top surface shall be 29 1/2" from the floor in the 11" pitch units and the 13" pitch units. In the standing position, the top surface shall be 40 1/2" from the floor.

4.0 Safety

Safety devices shall be designed to stop the conveyor system if any obstruction exists between the carrier and posting board or steel sliding door. These devices will be designed "fail-safe." Two non-identical systems shall be incorporated to provide redundancy. Maximum safe stopping distance of the conveyor system shall not exceed one (1) inch.

4.1 The safety system will be comprised of an infra-red source and detector located at the posting board level and at the security door level.

4.2 A second safety system shall be comprised of a "floating safety bar" located at the posting board level and at the security door level.

4.3 Should any of the safety systems described in paragraphs 4.1 and 4.2 be activated the system will stop its movement and the operator will be notified by an indication on the L.E.D. (light emitting diode) located at the top of the keypad.

4.4 The System shall inform the operator as to the nature of the safety activation by means of a safety status panel. This panel will be located on the right concealment panel. This status panel will consist of a series of eight indicator lights; these lights are respectively:

1. Normal
2. Security Door
3. Upper Safety Bar
4. Upper Safety Eye
5. Posting Board Latch
6. Lower Safety Eye
7. Lower Safety Bar
8. Access Panel

Under normal operating conditions the "normal" light will display green when the unit is operated. If a safety device activates, the light monitoring that particular safety system will display red.

As soon as the safety has been cleared, the red light will go off; and the normal green light will display when the unit is operated.

5.0 Carrier Positioning

Means shall be provided to operate the drive assembly from the keyboard console of the unit, from the operator's viewpoint. This operation shall be performed from either a standing or seated position to aid in the viewing of files as they are rotated. A means shall also be provided to operate the unit manually, without the aid of power through the use of a hand crank. The hand crank is accessed at the right front of the unit. A safety microswitch shall deactivate the unit if it is being operated manually. It is in the interest of the operator that this safety device be active and in no way shall the machine be made operable by means of bypassing any or all of the intended safety devices.

6.0 Controls

Each LEKTRIEVER unit is equipped with interfaceable controls that enable you to start, stop and completely direct the operation of it from the keyboard console, or from a personal computer, when interfaced with software.

6.1 Master On/Off Switch

Depressing the "ON" switch will turn the unit "ON". If the ON/OFF switch fails to light, verify that the power cord is plugged into an electrical outlet. The unit may be turned off at any time.

6.2 Safety Status Panel

The LEKTRIEVER unit safety system continually monitors the proper operation of the unit and prevents operation of or abruptly stops the unit if any safety sensor has been activated. Status of this system is indicated on a Safety Status Panel which is located directly above the "ON/OFF" switch.

6.3 Interfaceable Keyboard Console

The keyboard console provides complete control to scan or select media stored in the unit. The console consists of a numeric touch pad, display and index windows.

a. Clear Key:

Any level selection entry may be cleared or canceled by depressing "CLEAR". A new level selection may then be entered.

b. Level Selection:

A level may be selected by entering one or two digits of the selection and depressing "ENTER". The selected level will be immediately brought to the posting position.

c. Scanning:

Levels may be scanned at any time by depressing either "UP" or "DN". Scanning will stop when the key is released.

d. Memory:

In addition to the normal memory during scanning, any displayed selection may be temporarily stored for later recall. One of two memory modes may be selected during installation; Single Reference of Multiple Buffer Mode.

1. Single Reference Mode:

Any displayed selection may be temporarily stored in memory for later recall.

The selection is not erased from memory when recalled; it will remain in the memory until another selection is stored.

2. Multiple Buffer Mode:

Up to 16 selections may be temporarily stored in memory.

Selections will be recalled in the order they were stored. Each selection is erased from memory when recalled.

e. Safety Functions:

The unit will abruptly stop if any safety system has been activated. The Safety Status Panel will indicate the particular condition that stopped the unit.

f. Audible Signal:

A short tone confirms each key entry.

g. Load Indicator:

The display will flash once per second plus an audible signal when the media weight being lifted is more than 80% of the maximum imbalance allowed for the unit.

h. Diagnostic Indicator:

The display flashes codes to assist in diagnosing electronic malfunctions.

7.0 Control Console

The control console shall be located at the front edge of the posting board for ease of control. The console will consist of an index grid, the key-pad control and the L.E.D. readout window.

7.1 The L.E.D. readout will visually display in 1/2" high characters the carrier number selected for access.

7.2 The control console shall be recessed into the surface of the posting board and have sufficient design as to protect control keys from being inadvertently depressed by a tray that may have been withdrawn.

8.0 Control Circuits

The control circuits shall be solid state and designed with modular concept. The control circuits shall be readily accessible from the right front of the unit.

- a. Wiring from the key-pad logic board shall be of the ribbon cable type with connector for fast, reliable maintenance.
- b. The system key-pad and other major electronic components shall be designed to be easily removed or replaced.
- c. The interfaceable control shall be designed to provide movement through the shortest path for bringing carriers to the posting level.

9.0 Adjustable Posting Board

The posting board work surface shall be adjustable for two heights; seated and standing. A release mechanism shall control two locking pins located in the board assembly to secure the posting board in position. Vertical movement of the board shall be controlled by a rack and pinion on left and right with an adjustable torsion spring.

The board shall extend over the width of the unit (with 3/16" clearance on each side of unit) and extend out from the front 11 1/2".

10.0 Conveyor Imbalance

The conveyor system shall be capable of transporting loads up to 600 lbs. maximum imbalance condition.

11.0 Media Tray

Trays designed for the storage of media shall be constructed of steel. Trays shall be designed with hand-holds and skegs.

12.0 Standard Tray Sizes and Capacities. Refer to Tray Specifications.

13.0 Divider Support for Media

In a lateral configuration, each carrier shall have the following number of welded dividers: 77 – 2, 102 – 4, 116 – 3, 130 – 8 included as standard. Movable dividers may be ordered which will be adjustable on 2" centers for the full width of the carrier.

14.0 Additional Safety Devices

Additional safety switches shall control the lower access panel and the right hand concealment panel so as to prevent the machine from automatically operating while these panels are not in place.

15.0 Mechanical Drive and Guide Components

Vertical Drive Conveyor Chains are American Standard #80-1" pitch precisely guided throughout entire travel. The precise guiding of chains throughout entire travel of the vertical drive eliminates chordal action and slop inherent to normal chain operation and assures quiet, practically vibration free operation.

16.0 Carrier Stabilization Tracking

All carriers are stabilized through the use of four stabilizing rollers. These rollers move within two track systems. One track system is located top and bottom, left and right on both RH & LH column supports. A second internal vertical track combines efficient and controlled stabilization of the carriers in their rotation.

17.0 Cycle Time

Carriers

<u>Per Unit</u>	<u>Pitch</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
14	11"	2.5 sec.	6.7 sec.	13.5 sec.
16	11"	2.5 sec.	7.6 sec.	15.3 sec.
18	11"	2.5 sec.	8.5 sec.	17.2 sec.
22	11"	2.5 sec.	10.3 sec.	20.9 sec.
10	13"	3.9 sec.	8.8 sec.	16.9 sec.
12	13"	3.9 sec.	10.4 sec.	20.2 sec.
14	13"	3.9 sec.	12.0 sec.	23.4 sec.
18	13"	3.9 sec.	15.2 sec.	29.9 sec.

18.0 Reliability

The equipment shall be designed for a service use of ten years when operated in eight hour shifts, five shifts per week. Average conveyor movement time shall be one hour per week. Service use shall be considered all time when power is on. The unit is rated for 520 hours of actual conveyor time.

LEKTRIEVER STEEL GAUGE

The following list of major Lektriever parts has been prepared by our Engineering Department for your information.

Trays	26 GA	(.018")
Tracks	12 GA	(.104")
Main Column Assembly	11 GA	(.119")
Carrier Body	18 GA	(.047")
Carrier Ends	16 GA	(.059")
Base Spreader Front	11 GA	(.119")
Base Spreader Rear	11 GA	(.119")
Spreader between Columns	16 GA	(.059")
Skins	18 GA	(.047")
Suspension Arms	3/16" X 2" wide	
Base Tubes under End Frames	1 1/2" X 3 1/2" x .120" wall thickness	
Chain for Conveyor	#80 (1" pitch)	
	Tensile Strength = 14,500 lbs.	
Sync Shaft	1 3/4" Dia Turned, Ground & Polished 1045 Steel	
Motor Drive Chain	#50 (5/8 Pitch)	

STEEL GAUGES

U.S. STD. GA.	DECIMAL THICKNESS T	FRACTION THICKNESS (NOM)
3		
16	.1875	3/16
10	.1345	9/64
11	.1196	1/8
12	.1046	7/64
13	.0897	3/32
14	.0747	5/64
16	.0598	1/16
17	.0538	3/64
18	.0478	3/64
20	.0359	3/64
22	.0299	1/32
24	.0239	1/32
26	.0179	1/64
30	.0120	1/64

DECIMAL EQUIVALENTS

FRACTION	DECIMAL	FRACTION	DECIMAL	FRACTION	DECIMAL	FRACTION	DECIMAL
1/64	.0156	17/64	.2656	33/64	.5156	49/64	.7656
1/32	.0312	9/32	.2812	17/32	.5312	25/32	.7812
3/64	.0469	19/64	.2969	35/64	.5469	51/64	.7969
1/16	.0625	5/16	.3125	9/16	.5625	13/16	.8125
5/64	.0781	21/64	.3281	37/64	.5781	53/64	.8281
3/32	.0938	11/32	.3438	19/32	.5938	27/32	.8438
7/64	.1094	23/64	.3594	39/64	.6094	55/64	.8594
1/8	.1250	3/8	.3750	5/8	.6250	7/8	.8750
9/64	.1406	25/64	.3906	41/64	.6406	57/64	.8906
5/32	.1562	13/32	.4062	21/32	.6562	29/32	.9062
11/64	.1719	27/64	.4219	43/64	.6719	59/64	.9219
3/16	.1875	7/16	.4375	11/16	.6875	15/16	.9375
13/64	.2031	29/64	.4531	45/64	.7031	61/64	.9531
7/32	.2188	15/32	.4688	23/32	.7188	31/32	.9688
15/64	.2344	31/64	.4844	47/64	.7344	63/64	.9844
1/4	.2500	1/2	.5000	3/4	.7500	1	1.0000

SECTION II — LEKTRIEVER MISCELLANEOUS

1. ENVIRONMENTAL REQUIREMENTS:

A. Ambient Temperatures:

Operating	Non-Operating
0° to +55°C	-20° to +70°C
+32° to 131°F	-4° to 158°F

B. Relative Humidity

Operating	Non-Operating
From 10% to 90%	From 10% to 90%

2. NOISE:

The Lektriever unit will not exceed 55 decibels when loudness is tested within one foot. For comparison, quiet conversation is rated at 30 decibels, a quiet radio would measure 40 decibels, and an average office is rated at 50 decibels.

4. BTU's PER HOUR AVERAGE:

A. Unit runs approximately 50 hours/year average (1 hour/week average; .2 hours/day average)

B. Average current for all load conditions is approximately 8 amps.

C. ~60% of input energy is heat:

Continuous BTU input = 3275 BTU's/hour X 60% = 1965 BTU's/hour (continuous) heat

20 watts idling = 68.25 BTU's/hour heat

(2 1/2% usage) average running BTU's (.2 hours/day) = 47.4 BTU's/hour (excludes idling)

2 1/2% usage RUNNING AND IDLING = 115.65 BTU's/hour heat

5. POWER CORD is 7' long from point of exit (lower right rear of unit) to plug.

LOADING THE LEKTRIEVER

When full capacity of the unit is to be utilized, the following loading procedure is recommended:

NOTE: A 14 Carrier Unit will serve as an example.

- (a) Enter "01" to bring the first carrier to the correct position.
- (b) Load Carrier No. 1 with its full complement of media.
- (c) When Carrier No. 1 is loaded, enter "08" to deliver Carrier No. 8 to position.
- (d) Load Carrier No. 8 in the same manner as Carrier No. 1.
- (e) Proceed to load the entire unit to capacity, following this "staggered" loading pattern:
i.e.: Carrier loading pattern - No. 1, 8, 2, 9.
- (f) The above loading pattern prevents an **unbalanced condition** which might cause an overload and stop the machine.

LEKTRIEVER Carrier to Carrier Relationships at Posting Level

All dimensions are nominal and do not include tolerances or changes in relationships due to clearances and deflections.

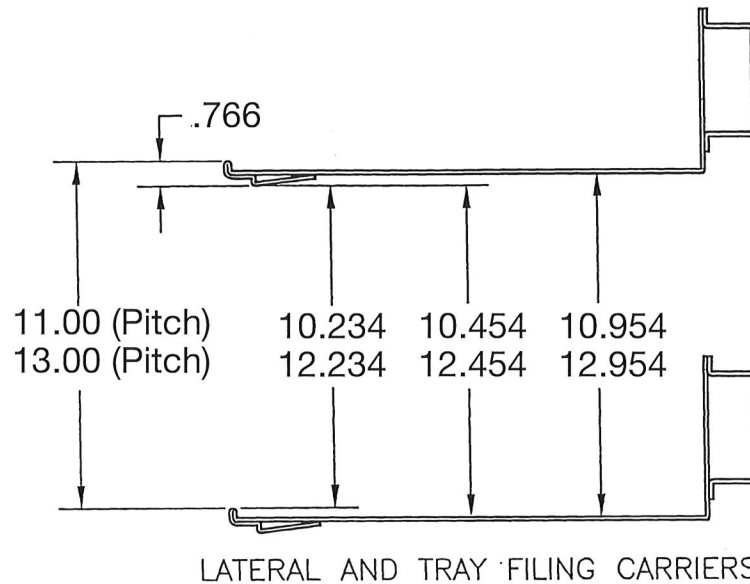


Figure 1

LEKTRIEVER CARRIERS Single Tier Tray Design Maximum Recommended Media Height

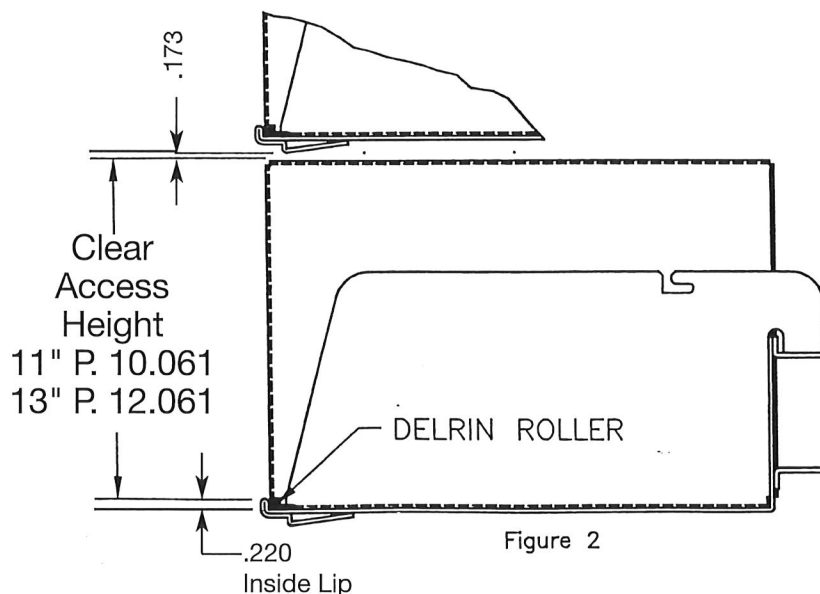


Figure 2

CARRIER PITCH	MAXIMUM RECOMMENDED MEDIA HEIGHTS
11.00 IN 27.94 CM	10.00 IN 25.40 CM
13.00 IN 33.02 CM	12.00 IN 30.48 CM

Delrin Rollers are standard on some units and optional on others. See page 13.

LEKTRIEVER CARRIERS

Lateral Filing

Relationship of Lateral Files to Safety Light Beam

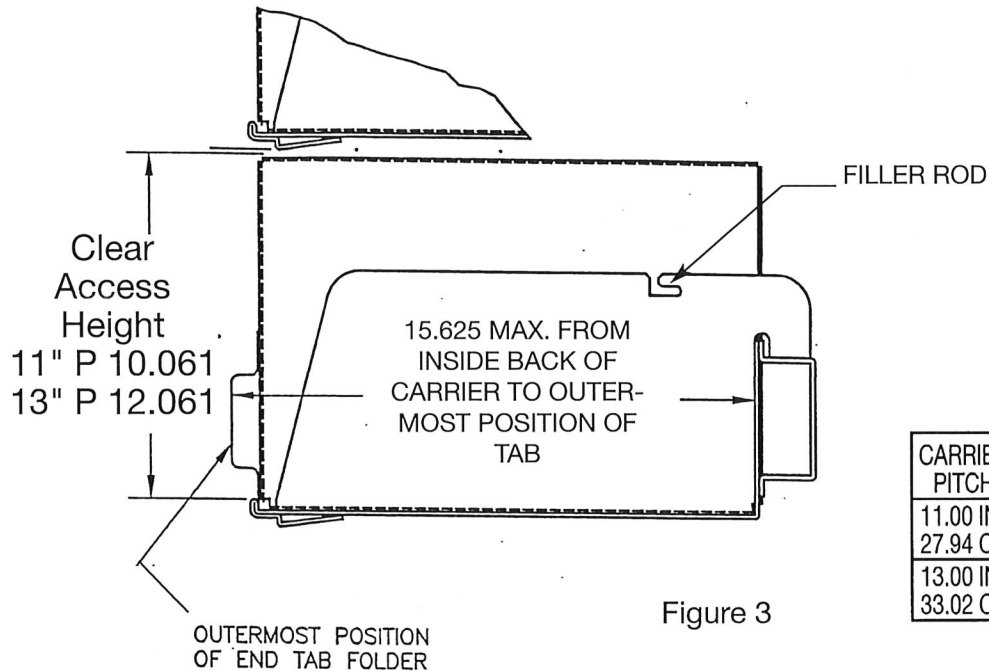


Figure 3

CARRIER PITCH	MAXIMUM RECOMMENDED MEDIA HEIGHTS
11.00 IN	10.00 IN
27.94 CM	25.40 CM
13.00 IN	12.00 IN
33.02 CM	30.48 CM

LEKTRIEVER CARRIERS

Double Tier Tray Design

Maximum Recommended Media Height

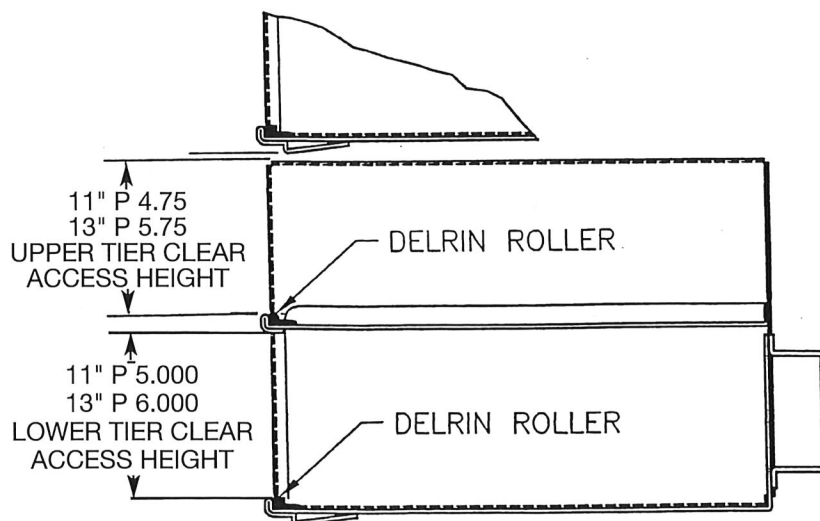


Figure 4

CARRIER PITCH	MAXIMUM RECOMMENDED MEDIA HEIGHTS
11.00 IN	4.75 IN
27.94 CM	12.07 CM
13.00 IN	5.75 IN
33.02 CM	14.61 CM

Delrin Rollers are standard on some units and optional on others. See page 13.

LEKTRIEVER CARRIER SPECIFICATIONS

See Figures 1-4

MAXIMUM CLEAR DEPTH OF CARRIERS WITH ALLOWANCE FOR TRAY/MEDIA CLEARANCE

Letter Lateral/Letter Binders Lateral	11.880"	(Removal of Front Filler Adds .5")
Legal Lateral/Legal Binders Lateral	15.030"	
Letter Vertical	15.030"	
Legal Vertical	15.030"	
6X4	15.030"	
6X4 Microfiche	12.468"	(Back Filler = 2.562" in from rear of carrier)
5X3	15.030"	
Tab	15.030"	
8X5	15.030"	
Check	15.030"	
Unit Dose	15.030"	
Printout Binders	15.030"	
8X8 & 8X9	15.030"	

NUMBER OF CARRIERS PER UNIT

HEIGHT	PITCH	
	11"	13"
8'	14 carriers	10 carriers
9'	16 carriers	12 carriers
10'	18 carriers	14 carriers
12'	22 carriers	18 carriers

TO DETERMINE NUMBER OF SPECIAL TRAYS PER CARRIER:

1. Width of Media plus .203 = Overall Width of Tray.
2. Overall Width of Tray plus .166 = Normal Clearance Between Dividers
3. Inside Width of Carrier: 77 = 62.82, 102 = 88.120, 116 = 101.50, 130 = 116.98
4. Divide (inside width of carrier) by Overall Width of Tray plus Clearance = No. of Trays per Carrier

Note: An allowance of .312 for screw heads (.156 each side) and .043 for each fixed divider must be considered when determining clear tray specs.

EXAMPLE: Width of Media = 9.5"

- 1.) $9.5 + .203 = 9.703$ (Overall Width of Tray)
- 2.) $9.703 + .166 = 9.869$ (Normal Clearance Between Dividers)
- 3.) $88.120 \div 9.869 = 8.929$; 8 Trays

TRAY SPECIFICATIONS FOR LEKTRIEVER

LEKTRIEVER MEDIA TRAYS	CATALOG NO.	NET TRAY WGT. LBS.	MAX MEDIA WGT PER TRAY	ROLLERS	PITCH	EXTERIOR DIMENSIONS (See NOTE Below)			INTERIOR DIM.		MX. MEDIA SIZE	
						HEIGHT	WIDTH	DEPTH	WIDTH	DEPTH	HEIGHT	WIDTH
Letter	6001384-000	4.95	33.16	std	11	7.688	12.406	14.625	11.982	14.292	10	11-29/32
Legal	6001384-001	6.09	42.16	std	11	7.688	15.469	14.625	15.045	14.292	10	15-1/32
8 x 8, 8 x 9	6001384-006	3.82	31.40		11	7.500	8.203	14.661	8.135	14.539	9-29/32	8-1/32
Hanging Letter	6001384-002	7.66	33.16	std	11	9.835	13.250	14.625	12.188	14.292	9-1/2	11-3/4
Hanging Legal	6001384-003	8.46	42.16	std	11	9.835	16.250	14.625	15.188	14.292	9-1/2	14-3/4
Printout Binders	6001384-004	6.39	62.88	std	13	7.688	16.250	14.625	15.826	14.292	12	15-7/16
5 x 3	6001384-007	1.44	6.54		11	3.000	5.203	14.661	5.135	14.539	4-3/4	5-1/32
6 x 4	6001384-018	1.71	10.47		11	3.690	6.177	14.661	6.109	14.539	4-3/4	6-1/32
Tab (Aperture)	6001384-009	1.82	10.32		11	3.000	7.609	14.661	7.541	14.539	4-3/4	7-13/32
4 x 4 microfilm**	6001384-017	1.50	10.50		11	3.690	8.620	14.661	4.256#	14.539	4-3/4	4-1/32
Check w/o rod	6001384-010	2.00	11.63	std	11	3.000	8.953	14.661	8.885	14.539	4-3/4	8-3/4
Check w/rod	6001384-015	2.22	11.63	std	11	3.000	8.953	14.661	8.885	14.539	4-11/32	8-3/4
8 x 5	6001384-014	2.35	17.45		13	4.690	8.203	14.661	8.135	14.539	5-3/4	8-1/32
Unit Dose***	6001387-000	7.50	23.75		11	2.000	21.516	14.671	2.062*	14.532	4-3/4	2
6 x 4 Micro	6001384-012	1.68	11.43		11	3.690	6.203	12.098	6.135	10.586	4-3/4	6-1/32
Compact Disk	6001384-007	1.44	7.44		13	3.000	5.203	14.661	5.135	14.539	5-3/4	5-1/32

NOTE:

EXTERIOR HEIGHT OF TRAYS DOES NOT INCLUDE SKEGS.

EXTERIOR DEPTH OF TRAYS DOES NOT INCLUDE TRAY PULLS.

ADD .62" FOR PULLS.

FOOTNOTES:

**2 compartments each

Each compartment

* 9 compartments at 2.125 and 1 compartment at 2.062

Dimensions shown are in inches

LINEAR FILING INCHES

11" Pitch Unit Media Size & Unit Width	Mode of Filing	Filing Capacity Per Carrier	14 Carriers (8' High)	Unit Capacity		
				16 Carriers (9' High)	18 Carriers (10' High)	22 Carriers (12' High)
Letter (8.5" x 11")						
77"	Lateral	62.5 LFI	875 LFI	1000 LFI	1125 LFI	1375 LFI
102"	Lateral	88.1 LFI	1234 LFI	1410 LFI	1586 LFI	1938 LFI
116"	Lateral	101.5 LFI	1421 LFI	1624 LFI	1827 LFI	2233 LFI
130"	Lateral	116.8 LFI	1635 LFI	1869 LFI	2102 LFI	2570 LFI
Legal (8.5" x 14")						
77"	Lateral	62.5 LFI	875 LFI	1000 LFI	1125 LFI	1375 LFI
102"	Lateral	88.1 LFI	1234 LFI	1410 LFI	1586 LFI	1938 LFI
116"	Lateral	101.5 LFI	1421 LFI	1624 LFI	1827 LFI	2233 LFI
130"	Lateral	116.8 LFI	1635 LFI	1869 LFI	2102 LFI	2570 LFI
Letter (8.5" x 11")						
77"	Tray	71.5 LFI	1001 LFI	1144 LFI	1287 LFI	1573 LFI
102"	Tray	100.0 LFI	1400 LFI	1600 LFI	1800 LFI	2200 LFI
116"	Tray	114.3 LFI	1600 LFI	1829 LFI	2057 LFI	2515 LFI
130"	Tray	128.6 LFI	1800 LFI	2058 LFI	2315 LFI	2829 LFI
Legal (8.5" x 14")						
77"	Tray	57.2 LFI	801 LFI	915 LFI	1030 LFI	1258 LFI
102"	Tray	71.5 LFI	1001 LFI	1144 LFI	1287 LFI	1573 LFI
116"	Tray	85.8 LFI	1201 LFI	1373 LFI	1544 LFI	1888 LFI
130"	Tray	100.0 LFI	1400 LFI	1600 LFI	1800 LFI	2200 LFI
Hanging Letter (8.5" x 11")						
77"	Tray	57.2 LFI	801 LFI	915 LFI	1030 LFI	1258 LFI
102"	Tray	85.8 LFI	1201 LFI	1373 LFI	1544 LFI	1888 LFI
116"	Tray	100.1 LFI	1401 LFI	1602 LFI	1802 LFI	2202 LFI
130"	Tray	114.4 LFI	1601 LFI	1830 LFI	2059 LFI	2516 LFI
Hanging Legal (8.5" x 14")						
77"	Tray	42.9 LFI	601 LFI	686 LFI	772 LFI	944 LFI
102"	Tray	71.5 LFI	1001 LFI	1144 LFI	1287 LFI	1573 LFI
116"	Tray	85.8 LFI	1401 LFI	1373 LFI	1544 LFI	1888 LFI
130"	Tray	100.1 LFI	1601 LFI	1602 LFI	1802 LFI	2202 LFI
8 23/32" x 3 1/2" – Check Tray (Double Tiered Carrier)						
77"	Tray	174.5 LFI	2443 LFI	2792 LFI	3141 LFI	3839 LFI
102"	Tray	261.7 LFI	3664 LFI	4187 LFI	4711 LFI	5757 LFI
116"	Tray	319.9 LFI	4479 LFI	5118 LFI	5758 LFI	7038 LFI
130"	Tray	349.0 LFI	4886 LFI	5584 LFI	6282 LFI	7678 LFI
8" x 8", 8" x 9" – Fingerprint Tray						
77"	Tray	101.8 LFI	1425 LFI	1629 LFI	1832 LFI	2240 LFI
102"	Tray	145.4 LFI	2036 LFI	2326 LFI	2617 LFI	3199 LFI
116"	Tray	174.5 LFI	2443 LFI	2792 LFI	3141 LFI	3839 LFI
130"	Tray	203.6 LFI	2850 LFI	3258 LFI	3665 LFI	4479 LFI
7 3/8" x 3 1/4" – Tab/Video Tray (Double Tiered Carrier)						
77"	Tray	232.6 LFI	3256 LFI	3722 LFI	4187 LFI	5117 LFI
102"	Tray	319.1 LFI	4479 LFI	5118 LFI	5758 LFI	7038 LFI
116"	Tray	377.0 LFI	5278 LFI	6032 LFI	6786 LFI	8294 LFI
130"	Tray	435.0 LFI	6090 LFI	6960 LFI	7830 LFI	9570 LFI
6" x 4" (Double Tiered Carrier)						
77"	Tray	290.8 LFI	4071 LFI	4653 LFI	5234 LFI	6398 LFI
102"	Tray	407.1 LFI	5699 LFI	6514 LFI	7328 LFI	8956 LFI
116"	Tray	465.0 LFI	6510 LFI	7440 LFI	8370 LFI	10230 LFI
130"	Tray	523.1 LFI	7323 LFI	8370 LFI	9416 LFI	11508 LFI
5" x 3" (Double Tiered Carrier)						
77"	Tray	319.9 LFI	4479 LFI	5118 LFI	5758 LFI	7038 LFI
102"	Tray	465.2 LFI	6513 LFI	7443 LFI	8374 LFI	10234 LFI
116"	Tray	552.1 LFI	7729 LFI	8834 LFI	9938 LFI	12146 LFI
130"	Tray	639.3 LFI	8950 LFI	10229 LFI	11507 LFI	14065 LFI
4" x 4" x 1" Microfilm Roll (Double Tiered Carrier)						
77"	Double Sided Tray	392 Rolls	5488 Rolls	6272 Rolls	7056 Rolls	8624 Rolls
102"	Double Sided Tray	560 Rolls	7840 Rolls	8960 Rolls	10080 Rolls	12320 Rolls
116"	Double Sided Tray	616 Rolls	8624 Rolls	9856 Rolls	11088 Rolls	13552 Rolls
130"	Double Sided Tray	728 Rolls	10192 Rolls	11648 Rolls	13104 Rolls	16016 Rolls
Forms & Publications (Letter/Legal)						
77"	Slide Out Inserts	30 Slots	420 Slots	480 Slots	540 Slots	660 Slots
102"	Slide Out Inserts	45 Slots	630 Slots	720 Slots	810 Slots	990 Slots
116"	Slide Out Inserts	50 Slots	700 Slots	800 Slots	900 Slots	1100 Slots
130"	Slide Out Inserts	60 Slots	840 Slots	960 Slots	1080 Slots	1320 Slots

11" Pitch Unit		Unit Capacity				
Media Size & Unit Width	Mode of Filing	Filing Capacity Per Carrier	14 Carriers (8' High)	16 Carriers (9' High)	18 Carriers (10' High)	22 Carriers (12' High)
Unit Dose/Small Parts (Double Tiered Carrier)						
77"	10 Channeled Trays	4 Trays/Carrier	56 Trays	64 Trays	72 Trays	88 Trays
102"	10 Channeled Trays	8 Trays/Carrier	112 Trays	128 Trays	144 Trays	176 Trays
116"	10 Channeled Trays	8 Trays/Carrier	112 Trays	128 Trays	144 Trays	176 Trays
130"	10 Channeled Trays	10 Trays/Carrier	140 Trays	160 Trays	180 Trays	220 Trays
Compact Disk (Double-Tiered Carrier)						
77"	Tray	22 trays per carr	7700 disks	9240 disks	10,780 disks	13,860 disks
102"	Tray	32 trays per carr	11,200 disks	13,440 disks	15,680 disks	20,160 disks
116"	Tray	38 trays per carr	13,300 disks	15,960 disks	18,620 disks	23,940 disks
130"	Tray	44 trays per carr	15,400 disks	18,480 disks	21,560 disks	27,720 disks
13" Pitch Unit						
Media Size & Unit Width	Mode of Filing	Filing Capacity Per Carrier	10 Carriers (8' High)	12 Carriers (9' High)	14 Carriers (10' High)	18 Carriers (12' High)
Binder - Letter						
77"	Lateral	62.5 LFI	625 LFI	750 LFI	875 LFI	1125 LFI
102"	Lateral	88.1 LFI	881 LFI	1057 LFI	1234 LFI	1586 LFI
116"	Lateral	101.5 LFI	1015 LFI	1218 LFI	1421 LFI	1827 LFI
130"	Lateral	117.0 LFI	1170 LFI	1404 LFI	1638 LFI	2106 LFI
Binder - Legal						
77"	Lateral	62.5 LFI	625 LFI	750 LFI	875 LFI	1125 LFI
102"	Lateral	88.1 LFI	881 LFI	1057 LFI	1234 LFI	1586 LFI
116"	Lateral	101.5 LFI	1015 LFI	1218 LFI	1421 LFI	1827 LFI
130"	Lateral	117.0 LFI	1170 LFI	1404 LFI	1638 LFI	2106 LFI
8" x 5" (Double Tiered Carrier)*						
77"	Tray	203.6 LFI	2036 LFI	2443 LFI	2850 LFI	3665 LFI
102"	Tray	290.8 LFI	2908 LFI	3490 LFI	4071 LFI	5234 LFI

*116 and 130 Units Available As A Special

Lektriever Pathology Slimline - Width 47.5"***

13" Pitch Unit		Unit Capacity				
Media Size & Unit Width	10 Carriers (8' High)		12 Carriers (9' High)		14 Carriers (10' High)	
	Filing Inches	Media Capacity	Filing Inches	Media Capacity	Filing Inches	Media Capacity
1" x 3" Micro - Slides	13131	218700	15757	262440	18383	306180
Paraffin Blocks						
1/4" Thickness	10940	39750	13128	47700	15316	55650
1/2" Thickness	10940	22500	13128	27700	15316	31500

** The Slimline Unit Contains 5 Trays Per Tier - 15 Per Carrier to House the Three Media Types Stated Above

LEKTRIEVER 77 WEIGHT SPECIFICATIONS

DESCRIPTION (COMPLETE UNITS)	NO OF CAR	WGT PER BASIC UNIT	WGT PER CAR	WGT* CAR INT	TOTAL UNIT WGT	FILING INCHES	MEDIA** WGT PER F.I.	TOTAL MEDIA WGT PER 100% LOAD	TOTAL WGT UNIT & MEDIA	TOTAL UNIT SHIP WGT
LETTER LATERAL	14	1335	37	3	1895	875	2.32	2030	3925	2096
LETTER LATERAL	16	1385	37	3	2025	1000	2.32	2320	4345	2475
LETTER LATERAL	18	1440	37	3	2160	1125	2.32	2610	4770	2912
LETTER LATERAL	22	1540	37	3	2420	1375	2.32	3190	5610	3090
LEGAL LATERAL	14	1335	37	2.5	1888	875	2.95	2581	4469	2531
LEGAL LATERAL	16	1385	37	2.5	2017	1000	2.95	2950	4967	2728
LEGAL LATERAL	18	1440	37	2.5	2151	1125	2.95	3319	5470	2797
LEGAL LATERAL	22	1540	37	2.5	2409	1375	2.95	4056	6465	3031
LETTER TRAY	14	1335	37	14	2049	1001	2.32	2322	4371	2825
LETTER TRAY	16	1385	37	14	2201	1144	2.32	2654	4855	3095
LETTER TRAY	18	1440	37	14	2358	1287	2.32	2986	5344	3351
LETTER TRAY	22	1540	37	14	2662	1573	2.32	3649	6311	3873
LEGAL TRAY	14	1335	37	13	2035	801	2.95	2363	4398	2894
LEGAL TRAY	16	1385	37	13	2185	915	2.95	2699	4884	3157
LEGAL TRAY	18	1440	37	13	2340	1030	2.95	3039	5379	3421
LEGAL TRAY	22	1540	37	13	2640	1258	2.95	3711	6351	3943
8x8 TRAY	14	1335	45	19	2231	1425	1.92	2736	4967	2902
8x9 TRAY							2.16	3078	5309	
8x8 TRAY	16	1385	45	19	2409	1629	1.92	3128	5537	3166
8x9 TRAY							2.16	3519	5928	
8x8 TRAY	18	1440	45	19	2592	1832	1.92	3517	6109	3431
8x9 TRAY							2.16	3957	6549	
8x8 TRAY	22	1540	45	19	2948	2240	1.92	4301	7249	3955
8x9 TRAY							2.16	4838	7786	
LETTER HANGING	14	1335	40	34	2371	801	2.32	1858	4229	2917
LETTER HANGING	16	1385	40	34	2569	915	2.32	2123	4692	3183
LETTER HANGING	18	1440	40	34	2772	1030	2.32	2390	5162	3451
LETTER HANGING	22	1540	40	34	3168	1258	2.32	2919	6087	3980
LEGAL HANGING	14	1335	40	28	2287	601	2.95	1773	4060	3003
LEGAL HANGING	16	1385	40	28	2473	686	2.95	2024	4497	3299
LEGAL HANGING	18	1440	40	28	2664	772	2.95	2277	4941	3581
LEGAL HANGING	22	1540	40	28	3036	944	2.95	2785	5821	4138
5x3 TRAY	14	1335	47	35	2483	4478	0.45	2016	4499	3397
5x3 TRAY	16	1385	47	35	2697	5118	0.45	2303	5000	3732
5x3 TRAY	18	1440	47	35	2916	5758	0.45	2591	5507	3959
5x3 TRAY	22	1540	47	35	3344	7038	0.45	3167	6511	4514
6x4 TRAY	14	1335	57	34	2609	4071	0.72	2931	5540	3305
6x4 TRAY	16	1385	57	34	2841	4653	0.72	3350	6191	3626
6x4 TRAY	18	1440	57	34	3078	5234	0.72	3768	6846	3949
6x4 TRAY	22	1540	57	34	3542	6398	0.72	4607	8149	4588
TAB TRAY	14	1335	59	29	2567	3256	0.71	2312	4879	3318
TAB TRAY	16	1385	59	29	2793	3722	0.71	2643	5436	3546
TAB TRAY	18	1440	59	29	3024	4187	0.71	2973	5997	3859
TAB TRAY	22	1540	59	29	3476	5117	0.71	3633	7109	4478
CHECK W/ROD	14	1335	60	27	2553	2443	0.80	1954	4507	3378
CHECK W/ROD	16	1385	60	27	2777	2792	0.80	2234	5011	3710
CHECK W/ROD	18	1440	60	27	3006	3141	0.80	2513	5519	4043
CHECK W/ROD	22	1540	60	27	3454	3839	0.80	3071	6525	4703
CHECK W/O ROD	14	1335	60	24	2511	2443	0.80	1954	4465	3265
CHECK W/O ROD	16	1385	60	24	2729	2792	0.80	2234	4963	3581
CHECK W/O ROD	18	1440	60	24	2952	3141	0.80	2513	5465	3898
CHECK W/O ROD	22	1540	60	24	3388	3839	0.80	3071	6459	4527
6x4 MICRO	14	1335	68	34	2763	2940	1.08	3175	5938	3276
6x4 MICRO	16	1385	68	34	3017	3360	1.08	3629	6646	3594
6x4 MICRO	18	1440	68	34	3276	3780	1.08	4082	7358	3912
6x4 MICRO	22	1540	68	34	3784	4620	1.08	4990	8774	4543
UNIT DOSE	14	1335	60	40	2735	95 cu. ft.				3588
UNIT DOSE	16	1385	60	40	2985	108 cu. ft.				3950
UNIT DOSE	18	1440	60	40	3240	122 cu. ft.				4200
UNIT DOSE	22	1540	60	40	3740	149 cu. ft.				4806
LETTER FORMS & PUBS	14	1335	77	95	3743	630	2.32	1462	5205	4577
LETTER FORMS & PUBS	16	1385	77	95	4137	720	2.32	1670	5807	5090
LETTER FORMS & PUBS	18	1440	77	95	4536	810	2.32	1879	6415	5608
LETTER FORMS & PUBS	22	1540	77	95	5324	990	2.32	2297	7621	6634
LEGAL FORMS & PUBS	14	1335	77	95	3743	630	2.95	1859	5602	4577
LEGAL FORMS & PUBS	16	1385	77	95	4137	720	2.95	2124	6261	5090
LEGAL FORMS & PUBS	18	1440	77	95	4536	810	2.95	2390	6926	5608
LEGAL FORMS & PUBS	22	1540	77	95	5324	990	2.95	2921	8245	6634
4x4x1 MICROFILM ROLL	14	1335	57	21	2427	5488 †	0.375	2058	4485	3294
4x4x1 MICROFILM ROLL	16	1385	57	21	2633	6272 †	0.375	2352	4985	3614
4x4x1 MICROFILM ROLL	18	1440	57	21	2844	7056 †	0.375	2646	5490	3935
4x4x1 MICROFILM ROLL	22	1540	57	21	3256	8624 †	0.375	3234	6490	4574
Compact Disks	10	1335	47	35	2155	7700 ††	7.44	1637	3792	3069
Compact Disks	12	1385	47	35	2369	9240 ††	7.44	1964	4333	3404
Compact Disks	14	1440	47	35	2588	10,780 ††	7.44	2291	4879	3631
Compact Disks	18	1540	47	35	3016	12,320 ††	7.44	2946	5962	4186

*WEIGHT OF EMPTY TRAYS, FILLERS, DIVIDERS

**REPRESENTATIVE WEIGHT (user's media should be weighed)

† CARTRIDGES PER UNIT

†† NUMBER DISKS

LEKTRIEVER 102 WEIGHT SPECIFICATIONS

DESCRIPTION	NO OF CAR	WGT PER BASIC UNIT	WGT PER CAR	WGT* CAR INT	TOTAL UNIT WGT	FILING INCHES	MEDIA** WGT PER F.I.	TOTAL MEDIA WGT PER 100% LOAD	TOTAL WGT UNIT & MEDIA	TOTAL UNIT SHIP WGT
Letter Lateral	14	1585	49	5	2341	1234	2.32	2863	5204	2855
Letter Lateral	16	1640	49	5	2504	1410	2.32	3271	5775	3080
Letter Lateral	18	1705	49	5	2677	1586	2.32	3680	6357	3310
Letter Lateral	22	1825	49	5	3013	1938	2.32	4496	7509	3490
Legal Lateral	14	1585	49	4	2327	1234	2.95	3640	5967	2939
Legal Lateral	16	1640	49	4	2488	1410	2.95	4160	6648	3176
Legal Lateral	18	1705	49	4	2659	1586	2.95	4679	7338	3418
Legal Lateral	22	1825	49	4	2991	1938	2.95	5717	8708	3650
Binder Letter	10	1545	54	5	2135	881	2.32	2044	4179	2655
Binder Letter	12	1600	54	5	2308	1057	2.32	2452	4760	2810
Binder Letter	14	1660	54	5	2486	1234	2.32	2863	5349	3095
Binder Letter	18	1775	54	5	2837	1586	2.32	3680	6517	3535
Binder Letter	10	1545	54	4	2125	881	2.95	2599	4724	2715
Binder Letter	12	1600	54	4	2296	1057	2.95	3118	5414	2882
Binder Letter	14	1660	54	4	2472	1234	2.95	3640	6112	3179
Binder Letter	18	1775	54	4	2819	1586	2.95	4679	7498	3643
Letter Tray	14	1585	54	20	2621	1400	2.32	3248	5869	3579
Letter Tray	16	1640	54	20	2824	1600	2.32	3712	6536	3928
Letter Tray	18	1705	54	20	3037	1800	2.32	4176	7213	4264
Letter Tray	22	1825	54	20	3453	2200	2.32	5104	8557	4949
Legal Tray	14	1585	57	16	2607	1001	2.95	2953	5560	3632
Legal Tray	16	1640	57	16	2808	1144	2.95	3375	6183	3968
Legal Tray	18	1705	57	16	3019	1287	2.95	3797	6816	4309
Legal Tray	22	1825	57	16	3431	1573	2.95	4640	8071	4986
8 x 8 Tray	14	1585	59	27	2789	2036	1.92	3909	6698	3723
8 x 9 Tray							2.16	4398	7187	
8 x 8 Tray	16	1640	59	27	3016	2326	1.92	4466	7482	4072
8 x 9 Tray							2.16	5024	8040	
8 x 8 Tray	18	1705	59	27	3253	2617	1.92	5025	8278	4426
8 x 9 Tray							2.16	5653	8906	
8 x 8 Tray	22	1825	59	27	3717	3199	1.92	6142	9859	5129
8 x 9 Tray							2.16	6910	10627	
Letter Hanging Tray	14	1585	56	51	3083	1199	2.32	2782	5865	3835
Letter Hanging Tray	16	1640	56	51	3352	1370	2.32	3178	6530	4200
Letter Hanging Tray	18	1705	56	51	3631	1542	2.32	3577	7208	4570
Letter Hanging Tray	22	1825	56	51	4179	1885	2.32	4373	8552	5305
Legal Hanging Tray	14	1585	55	47	3013	999	2.95	2947	5960	3919
Legal Hanging Tray	16	1640	55	47	3272	1142	2.95	3369	6641	4296
Legal Hanging Tray	18	1705	55	47	3541	1285	2.95	3791	7332	4678
Legal Hanging Tray	22	1825	55	47	4069	1571	2.95	4632	8701	5437
5 x 3 Tray	14	1585	62	46	3097	6513	.45	2931	6028	4171
5 x 3 Tray	16	1640	62	46	3368	7443	.45	3349	6717	4584
5 x 3 Tray	18	1705	62	46	3649	8374	.45	3768	7417	4872
5 x 3 Tray	22	1825	62	46	4203	10234	.45	4605	8808	5573
6 x 4 Tray	14	1585	75	48	3307	5699	.72	4103	7410	4087
6 x 4 Tray	16	1640	75	48	3608	6514	.72	4690	8298	4488
6 x 4 Tray	18	1705	75	48	3919	7328	.72	5276	9195	4894
6 x 4 Tray	22	1825	75	48	4531	8956	.72	6549	11080	5701
Tab Tray or Video Tape	14	1585	78	40	3237	4479	.71	3180	6417	4017
Tab Tray or Video Tape	16	1640	78	40	3528	5118	.71	3634	7162	4408
Tab Tray or Video Tape	18	1705	78	40	3829	5758	.71	4088	7917	4804
Tab Tray or Video Tape	22	1825	78	40	4421	7038	.71	4997	9418	5591
Check w/rod	14	1585	79	40	3251	3664†	.80	2977	6228	4185
Check w/rod	16	1640	79	40	3544	4187†	.80	3402	6946	4600
Check w/rod	18	1705	79	40	3847	4711†	.80	3769	7616	5020
Check w/rod	22	1825	79	40	4443	5757†	.80	4678	9121	5855

*WEIGHT OF EMPTY TRAYS, FILLERS, DIVIDERS, ETC.

** REPRESENTATIVE WEIGHT (user's media should be weighed)

†† NUMBER DISKS

LEKTRIEVER 102 WEIGHT SPECIFICATIONS (cont.)

Description	NO OF CAR	WGT PER BASIC UNIT	WGT PER CAR	WGT* CAR INT	TOTAL UNIT WGT	FILING INCHES	MEDIA** WGT PER F.I.	TOTAL MEDIA WGT PER 100% LOAD	TOTAL WGT UNIT & MEDIA	TOTAL UNIT SHIP WGT
Check w/o rod	14	1585	79	36	3195	3664	.80	2977	6172	4045
Check w/o rod	16	1640	79	36	3480	4187	.80	3402	6882	4440
Check w/o rod	18	1705	79	36	3775	4711	.80	3769	7544	4840
Check w/o rod	22	1825	79	36	4355	5757	.80	4678	9033	5635
6 x 4 Micro	14	1585	82	47	3391	4116	1.08	4445	7836	4003
6 x 4 Micro	16	1640	82	47	3704	4704	1.08	5080	8784	4392
6 x 4 Micro	18	1705	82	47	4027	5292	1.08	5715	9742	4786
6 x 4 Micro	22	1825	82	47	4663	6468	1.08	6985	11648	5569
Unit Dose	14	1585	73	60	3447	190 cu. ft.				4465
Unit Dose	16	1640	73	60	3768	217 cu. ft.				4920
Unit Dose	18	1705	73	60	4099	244 cu. ft.				5244
Unit Dose	22	1825	73	60	4751	298 cu. ft.				6023
8 x 5 Tray	10	1545	85	47	2865	2908	1.20	3490	6355	3630
8 x 5 Tray	12	1600	85	47	3184	3490	1.20	4188	7372	3980
8 x 5 Tray	14	1660	85	47	3508	4071	1.20	4885	8393	4460
8 x 5 Tray	18	1775	85	47	4151	5234	1.20	6281	10432	5290
Printout Binder Tray	10	1545	56	17	2275	718	4.40	3159	5434	3250
Printout Binder Tray	12	1600	56	17	2476	862	4.40	3793	6269	3524
Printout Binder Tray	14	1660	56	17	2682	1006	4.40	4426	7108	3928
Printout Binder Tray	18	1775	56	17	3089	1293	4.40	5686	8775	4606
Letter Forms & Publications	14	1585	85.7	143	3587	945	2.32	2192	5779	4682
Letter Forms & Publications	16	1640	85.7	143	3928	1080	2.32	2506	6434	5180
Letter Forms & Publications	18	1705	85.7	143	4279	1215	2.32	2819	7098	5687
Letter Forms & Publications	22	1825	85.7	143	4971	1485	2.32	3445	8416	6692
Legal Forms & Publications	14	1585	85.7	143	3587	945	2.95	2788	6375	4682
Legal Forms & Publications	16	1640	85.7	143	3928	1080	2.95	3186	7114	5180
Legal Forms & Publications	18	1705	85.7	143	4279	1215	2.95	3584	7863	5687
Legal Forms & Publications	22	1825	85.7	143	4971	1485	2.95	4381	9352	6692
4 x 4 x 1 Microfilm	14	1585	75	30	3055	7840†	***			4255
4 x 4 x 1 Microfilm	16	1640	75	30	3320	8960†	***			4920
4 x 4 x 1 Microfilm	18	1705	75	30	3593	10080†	***			5230
4 x 4 x 1 Microfilm	22	1825	75	30	4135	12320†	***			6050
Compact Disks	10	1585	62	46	2665	11,200††	7.44	2381	5046	3739
Compact Disks	12	1640	62	46	2936	13,440††	7.44	2857	5792	4152
Compact Disks	14	1705	62	46	3217	15,680††	7.44	3333	6550	4440
Compact Disks	18	1825	62	46	3769	20,160††	7.44	4285	8054	5139

*WEIGHT OF EMPTY TRAYS, FILLERS, DIVIDERS, ETC.

** REPRESENTATIVE WEIGHT (user's media should be weighed)

†CARTRIDGES PER UNIT

†† NUMBER DISKS

LEKTRIEVER 116 WEIGHT SPECIFICATIONS

DESCRIPTION (COMPLETE UNITS)	NO OF CAR	WGT PER BASIC UNIT	WGT PER CAR	WGT* CAR INT	TOTAL UNIT WGT	FILING INCHES	MEDIA** WGT PER F.I.	TOTAL MEDIA WGT PER 100% LOAD	TOTAL WGT UNIT & MEDIA	TOTAL UNIT SHIP WGT
LETTER LATERAL	14	1717	56	9	2627	1421	2.32	3297	5924	3506
LETTER LATERAL	16	1775	56	9	2815	1624	2.32	3768	6583	3806
LETTER LATERAL	18	1845	56	9	3015	1827	2.32	4239	7254	4113
LETTER LATERAL	22	2152	56	9	3582	2233	2.32	5181	8763	4407
LEGAL LATERAL	14	1717	56	7	2599	1421	2.95	4192	6791	3430
LEGAL LATERAL	16	1775	56	7	2783	1624	2.95	4791	7574	3719
LEGAL LATERAL	18	1845	56	7	2979	1827	2.95	5390	8369	3999
LEGAL LATERAL	22	2152	56	7	3538	2233	2.95	6587	10125	4319
LETTER TRAY	14	1717	56	23	2823	1600	2.32	3712	6535	3925
LETTER TRAY	16	1775	56	23	3039	1829	2.32	4243	7282	4309
LETTER TRAY	18	1845	56	23	3267	2057	2.32	4772	8039	4678
LETTER TRAY	22	2152	56	23	3890	2315	2.32	5371	9261	5610
LEGAL TRAY	14	1717	56	19	2767	1201	2.95	3543	6310	3946
LEGAL TRAY	16	1775	56	19	2975	1372	2.95	4047	7022	4309
LEGAL TRAY	18	1845	56	19	3195	1544	2.95	4555	7750	4678
LEGAL TRAY	22	2152	56	19	3802	1888	2.95	5570	9372	5590
8x8 TRAY	14	1717	61	32	3019	2443	1.92	4691	7710	4093
8x9 TRAY							2.16	5277	8296	
8x8 TRAY	16	1775	61	32	3263	2791	1.92	5359	8622	4477
8x9 TRAY							2.16	6029	9292	
8x8 TRAY	18	1845	61	32	3519	3140	1.92	6029	9548	4868
8x9 TRAY							2.16	6782	10301	
8x8TRAY	22	2152	61	32	4198	3838	1.92	7369	11567	5822
8x9 TRAY							2.16	8290	12488	
LETTER HANGING	14	1717	63	60	3439	1400	2.32	3248	6687	4304
LETTER HANGING	16	1775	63	60	3743	1600	2.32	3712	7455	4718
LETTER HANGING	18	1845	63	60	4059	1800	2.32	4176	8235	5139
LETTER HANGING	22	2152	63	60	4858	2200	2.32	5104	9962	6152
LEGAL HANGING	14	1717	62	56	3369	1200	2.95	3540	6909	4390
LEGAL HANGING	16	1775	62	56	3663	1372	2.95	4047	7710	4841
LEGAL HANGING	18	1845	62	56	3969	1543	2.95	4552	8521	5275
LEGAL HANGING	22	2152	62	56	4748	1883	2.95	5555	10303	6321
5x3 TRAY	14	1717	69	55	3453	7735	0.45	3481	6934	4688
5x3 TRAY	16	1775	69	55	3759	8840	0.45	3978	7737	5157
5x3 TRAY	18	1845	69	55	4077	9945	0.45	4475	8552	5483
5x3 TRAY	22	2152	69	55	4880	12155	0.45	5470	10350	6456
6x4 TRAY	14	1717	81	55	3621	6573	0.72	4733	8354	4518
6x4TRAY	16	1775	81	55	3951	7444	0.72	5360	9311	4963
6x4 TRAY	18	1845	81	55	4293	8374	0.72	6029	10322	5414
6x4 TRAY	22	2152	81	55	5144	10235	0.72	7369	12513	6490
TAB TRAY	14	1717	82	47	3523	5292	0.71	3757	7280	4420
TAB TRAY	16	1775	82	47	3839	6048	0.71	4294	8133	4851
TAB TRAY	18	1845	82	47	4167	6804	0.71	4831	8998	5288
TAB TRAY	22	2152	82	47	4990	8316	0.71	5904	10894	6336
CHECK W/ROD	14	1717	84	49	3579	4478	0.80	3582	7161	4653
CHECK W/ROD	16	1775	84	49	3903	5118	0.80	4094	7997	5117
CHECK W/ROD	18	1845	84	49	4239	5757	0.80	4606	8845	5588
CHECK W/ROD	22	2152	84	49	5078	7037	0.80	5630	10708	6702
CHECK W/O ROD	14	1717	84	44	3509	4478	0.80	3582	7091	4487
CHECK W/O ROD	16	1775	84	44	3823	5118	0.80	4094	7917	4927
CHECK W/O ROD	18	1845	84	44	4149	5757	0.80	4606	8755	5374
CHECK W/O ROD	22	2152	84	44	4968	7037	0.80	5630	10598	6440
UNIT DOSE	14	1717	81	60	3691	190 cu. ft.				4973
UNIT DOSE	16	1775	81	60	4031	217 cu. ft.				5484
UNIT DOSE	18	1845	81	60	4383	244 cu. ft.				5844
UNIT DOSE	22	2152	81	60	5254	298 cu. ft.				6892
LETTER FORMS & PUBS	14	1717	93	159	5245	1050	2.32	2436	7681	5944
LETTER FORMS & PUBS	16	1775	93	159	5807	1200	2.32	2784	8591	6607
LETTER FORMS & PUBS	18	1845	93	159	6381	1350	2.32	3132	9513	7280
LETTER FORMS & PUBS	22	2152	93	159	7696	1650	2.32	3828	11524	8795
LEGAL FORMS & PUBS	14	1717	93	159	5245	1050	2.95	3098	8343	5944
LEGAL FORMS & PUBS	16	1775	93	159	5807	1200	2.95	3540	9347	6607
LEGAL FORMS & PUBS	18	1845	93	159	6381	1350	2.95	3983	10364	7280
LEGAL FORMS & PUBS	22	2152	93	159	7696	1650	2.95	4868	12564	8795
4x4x1 MICROFILM ROLL	14	1717	84	33	3355	8624 †	0.375	3234	6589	4429
4x4x1 MICROFILM ROLL	16	1775	84	33	3647	9856 †	0.375	3696	7343	4861
4x4x1 MICROFILM ROLL	18	1845	84	33	3951	11088 †	0.375	4158	8109	5300
4x4x1 MICROFILM ROLL	22	2152	84	33	4726	13552 †	0.375	5082	9808	6353
Compact Disks	10	1717	69	55	2957	13,300 ††	7.44	2827	5784	4192
Compact Disks	12	1775	69	55	3263	15,960 ††	7.44	3393	6656	4661
Compact Disks	14	1845	69	55	3581	18,620 ††	7.44	3958	7539	4987
Compact Disks	18	2152	69	55	4384	21,280 ††	7.44	5089	9473	5960

*WEIGHT OF EMPTY TRAYS, FILLERS, DIVIDERS
† CARTRIDGES PER UNIT

** REPRESENTATIVE WEIGHT (user's media should be weighed)
†† NUMBER DISKS

LEKTRIEVER 130 WEIGHT SPECIFICATIONS

DESCRIPTION (COMPLETE UNITS)	NO OF CAR	WGT PER BASIC UNIT	WGT PER CAR	WGT* CAR INT	TOTAL UNIT WGT	FILING INCHES	MEDIA** WGT PER F.I.	TOTAL MEDIA WGT PER 100% LOAD	TOTAL WGT UNIT & MEDIA	TOTAL UNIT SHIP WGT
LETTER LATERAL	14	1870	63	10	2892	1635	2.32	3793	6685	3887
LETTER LATERAL	16	1931	63	10	3099	1869	2.32	4336	7435	4220
LETTER LATERAL	18	2007	63	10	3321	2102	2.32	4877	8198	4563
LETTER LATERAL	22	2314	63	10	3920	2570	2.32	5962	9882	5380
LEGAL LATERAL	14	1870	63	9	2878	1635	2.95	4823	7701	3818
LEGAL LATERAL	16	1931	63	9	3083	1869	2.95	5514	8597	4141
LEGAL LATERAL	18	2007	63	9	3303	2102	2.95	6201	9504	4474
LEGAL LATERAL	22	2314	63	9	3898	2570	2.95	7582	11480	5290
LETTER TRAY	14	1870	65	26	3144	1800	2.32	4176	7320	4411
LETTER TRAY	16	1931	65	26	3387	2058	2.32	4775	8162	4848
LETTER TRAY	18	2007	65	26	3645	2315	2.32	5371	9016	5268
LETTER TRAY	22	2314	65	26	4316	2829	2.32	6563	10879	6130
LEGAL TRAY	14	1870	65	22	3088	1400	2.95	4130	7218	4444
LEGAL TRAY	16	1931	65	22	3323	1600	2.95	4720	8043	4857
LEGAL TRAY	18	2007	65	22	3573	1800	2.95	5310	8883	5278
LEGAL TRAY	22	2314	65	22	4228	2200	2.95	6490	10718	6120
8x8 TRAY	14	1870	72	37	3396	2850	1.92	5472	8868	4631
8x9 TRAY							2.16	6156	9552	
8x8 TRAY	16	1931	72	37	3675	3257	1.92	6253	9928	5071
8x9 TRAY							2.16	7035	10710	
8x8 TRAY	18	2007	72	37	3969	3664	1.92	7035	11004	5520
8x9 TRAY							2.16	7914	11883	
8x8 TRAY	22	2314	72	37	4712	4478	1.92	8598	13310	6416
8x9 TRAY							2.16	9672	14384	
LETTER HANGING	14	1870	72	68	3830	1600	2.32	3712	7542	4825
LETTER HANGING	16	1931	72	68	4171	1829	2.32	4243	8414	5292
LETTER HANGING	18	2007	72	68	4527	2058	2.32	4775	9302	5796
LETTER HANGING	22	2314	72	68	5394	2515	2.32	5835	11229	6718
LEGAL HANGING	14	1870	72	66	3802	1400	2.95	4130	7932	4976
LEGAL HANGING	16	1931	72	66	4139	1600	2.95	4720	8859	5494
LEGAL HANGING	18	2007	72	66	4491	1800	2.95	5310	9801	5993
LEGAL HANGING	22	2314	72	66	5350	2200	2.95	6490	11840	6995
5x3 TRAY	14	1870	83	63	3914	8956	0.45	4030	7944	5334
5x3 TRAY	16	1931	83	63	4267	10235	0.45	4606	8873	5875
5x3 TRAY	18	2007	83	63	4635	11515	0.45	5182	9817	6252
5x3 TRAY	22	2314	83	63	5526	14074	0.45	6333	11859	7174
6x4 TRAY	14	1870	95	62	4068	7328	0.72	5276	9344	5100
6x4 TRAY	16	1931	95	62	4443	8374	0.72	6029	10472	5607
6x4 TRAY	18	2007	95	62	4833	9421	0.72	6783	11616	6122
6x4 TRAY	22	2314	95	62	5768	11515	0.72	8291	14059	7152
TAB TRAY	14	1870	97	55	3998	6106	0.71	4335	8333	5030
TAB TRAY	16	1931	97	55	4363	6979	0.71	4955	9318	5527
TAB TRAY	18	2007	97	55	4743	7851	0.71	5574	10317	6032
TAB TRAY	22	2314	97	55	5658	9596	0.71	6813	12471	7042
CHECK W/ROD	14	1870	97	53	3970	4885	0.80	3908	7878	5205
CHECK W/ROD	16	1931	97	53	4331	5583	0.80	4466	8797	5727
CHECK W/ROD	18	2007	97	53	4707	6281	0.80	5025	9732	6258
CHECK W/ROD	22	2314	97	53	5614	7677	0.80	6142	11756	7318
CHECK W/O ROD	14	1870	97	48	3900	4885	0.80	3908	7808	5025
CHECK W/O ROD	16	1931	97	48	4251	5583	0.80	4466	8717	5521
CHECK W/O ROD	18	2007	97	48	4617	6281	0.80	5025	9642	6026
CHECK W/O ROD	22	2314	97	48	5504	7677	0.80	6142	11646	7033
UNIT DOSE	14	1870	93	75	4222	237 cu. ft.				5696
UNIT DOSE	16	1931	93	75	4619	271 cu. ft.				6290
UNIT DOSE	18	2007	93	75	5031	305 cu. ft.				6711
UNIT DOSE	22	2314	93	75	5846	373 cu. ft.				7730
LETTER FORMS & PUBS	14	1870	112	191	6112	1260	2.32	2923	9035	7560
LETTER FORMS & PUBS	16	1931	112	191	6779	1440	2.32	3341	10120	8435
LETTER FORMS & PUBS	18	2007	112	191	7461	1620	2.32	3758	11219	9323
LETTER FORMS & PUBS	22	2314	112	191	8980	1980	2.32	4594	13574	11092
LEGAL FORMS & PUBS	14	1870	112	191	6112	1260	2.95	3717	9829	7560
LEGAL FORMS & PUBS	16	1931	112	191	6779	1440	2.95	4248	11027	8435
LEGAL FORMS & PUBS	18	2007	112	191	7461	1620	2.95	4779	12240	9323
LEGAL FORMS & PUBS	22	2314	112	191	8980	1980	2.95	5841	14821	11092
4x4x1 MICROFILM ROLL	14	1870	98	39	3788	10192 †	0.375	3822	7610	5023
4x4x1 MICROFILM ROLL	16	1931	98	39	4123	11648 †	0.375	4368	8491	5519
4x4x1 MICROFILM ROLL	18	2007	98	39	4473	13104 †	0.375	4914	9387	6024
4x4x1 MICROFILM ROLL	22	2314	98	39	5328	16016 †	0.375	6006	11334	7035
Compact Disks	10	1870	83	63	3330	15,400 ††	7.44	3274	5144	4750
Compact Disks	12	1931	83	63	3683	18,480 ††	7.44	3928	7611	5291
Compact Disks	14	2007	83	63	4051	21,560 ††	7.44	4583	8634	5668
Compact Disks	18	2314	83	63	4942	24,640 ††	7.44	5892	10,834	6590

*WEIGHT OF EMPTY TRAYS, FILLERS, DIVIDERS
† CARTRIDGES PER UNIT

** REPRESENTATIVE WEIGHT (user's media should be weighed)
†† NUMBER DISKS

UNIT DOSE SPECIFICATIONS

MODEL NUMBER	MEDIA	UNIT TYPE	PITCH / TIER	NUMBER OF CARRIERS	TRAYS PER CARRIERS	TOTAL NO. OF TRAYS
Lektriever 77	UnitDose/Unit Storage	Tray	11" / 2	14	4	56
				16	4	64
				18	4	72
				22	4	88
Lektriever 102	Unit Dose/Unit Storage	Tray	11" / 2	14	8	112
				16	8	128
				18	8	144
				22	8	176
Lektriever 116	Unit Dose/Unit Storage	Tray	11" / 2	14	8	112
				16	8	128
				18	8	144
				22	8	176
Lektriever 130	Unit Dose/Unit Storage	Tray	11" / 2	14	10	140
				16	10	160
				18	10	180
				22	10	220

Trays contain ten (10) compartments (9 at 2.125" wide inside and 1 at 2.082" wide inside). Compartment height is 2" at the front and rear of the tray. Inside depth is 14.532". Maximum height for stored material is 4-3/4" for both lower and upper levels.

FORMS AND PUBS SPECIFICATIONS

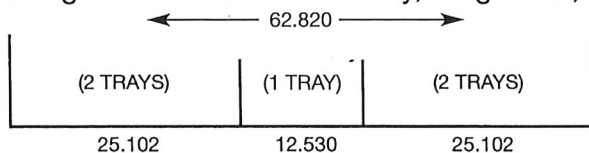
MODEL NUMBER	MEDIA	UNIT TYPE	PITCH / TIER	NUMBER OF CARRIERS	COMPARTMENT PER CARRIER	SHELVES PER COMPARTMENT	TOTAL NO. OF SHELVES
Lektriever 77	Forms & Publications	Flat Storage	11" / 1	14	6	5 High/Compt.	420
				16	6	5 High/Compt.	480
				18	6	5 High/Compt.	540
				22	6	5 High/Compt.	660
Lektriever 102	Forms & Publications	Flat Storage	11" / 1	14	9	5 High/Compt.	630
				16	9	5 High/Compt.	720
				18	9	5 High/Compt.	810
				22	9	5 High/Compt.	990
Lektriever 116	Forms & Publications	Flat Storage	11" / 1	14	10	5 High/Compt.	700
				16	10	5 High/Compt.	800
				18	10	5 High/Compt.	900
				22	10	5 High/Compt.	1100
Lektriever 130	Forms & Publications	Flat Storage	11" / 1	14	12	5 High/Compt.	840
				16	12	5 High/Compt.	960
				18	12	5 High/Compt.	1080
				22	12	5 High/Compt.	1320

Each compartment is 9-5/8" wide each. Each compartment has a fixed base shelf and 4 removable shelves, 5 openings per compartment. Each opening is 1-3/4" high. All shelves including base shelf have label holders. All shelves are sloped front to back 5 degrees. Letter unit depth = 12-1/4". Legal unit depth = 14-1/4".

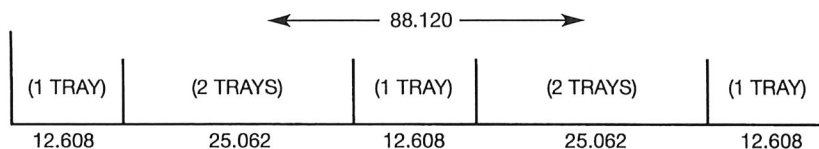
Welded Dividers Spacing

Letter/Legal Lateral and Letter Tray, Single Tier, 11" Pitch

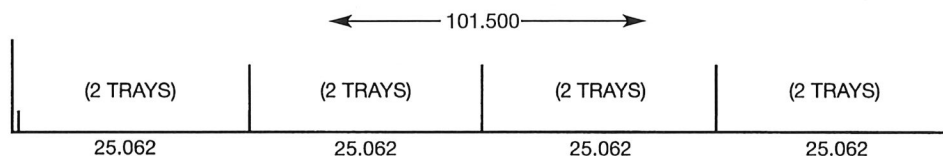
77"
WIDE
UNIT



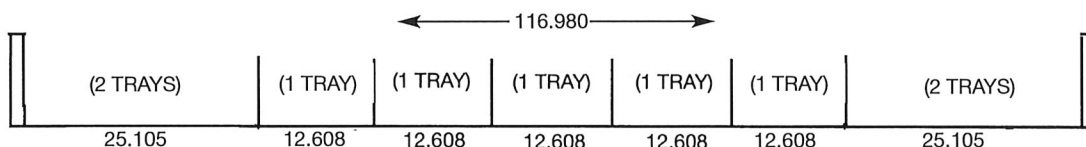
102"
WIDE
UNIT



116"
WIDE
UNIT

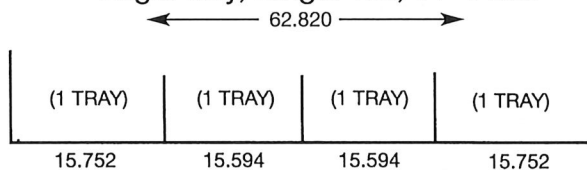


130"
WIDE
UNIT

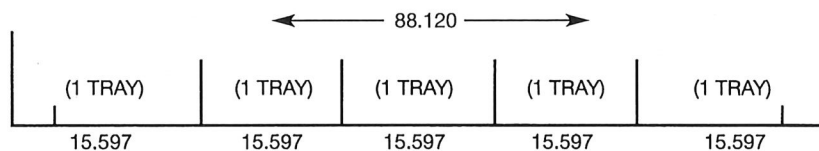


Legal Tray, Single Tier, 11" Pitch

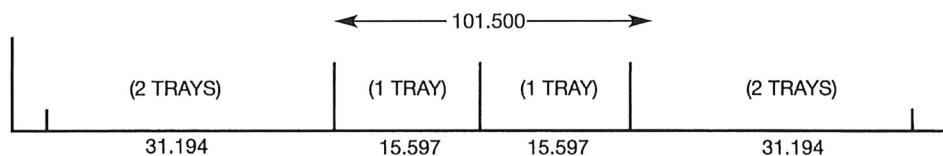
77"
WIDE
UNIT



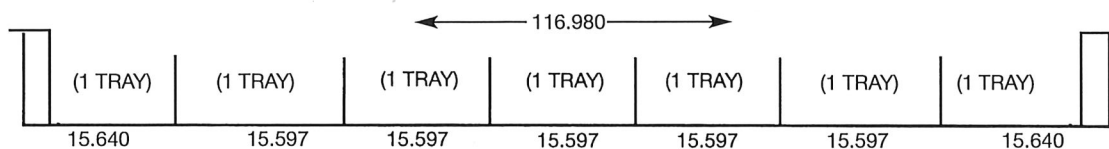
102"
WIDE
UNIT



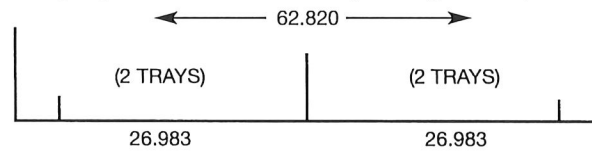
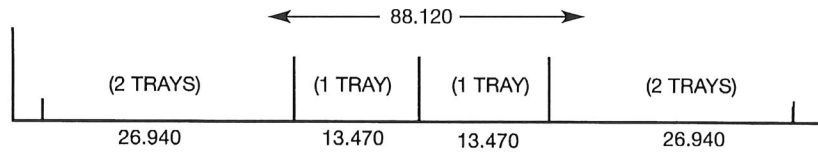
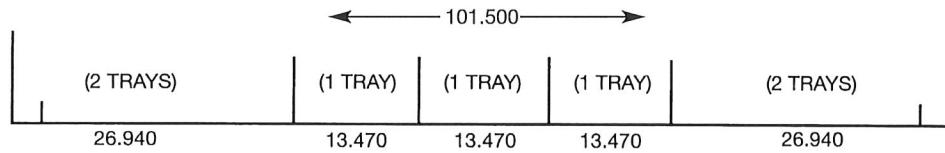
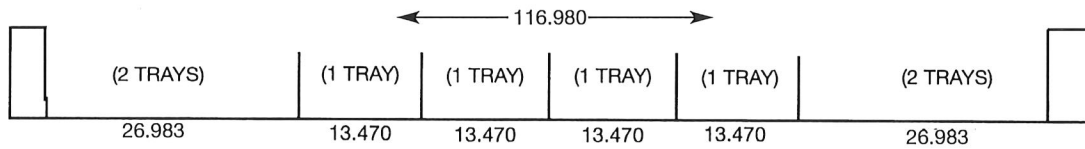
116"
WIDE
UNIT



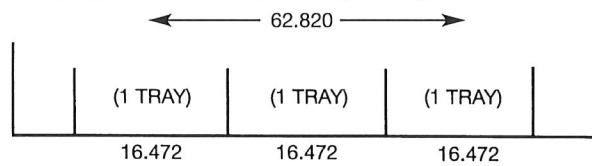
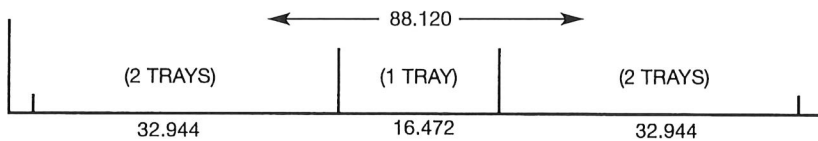
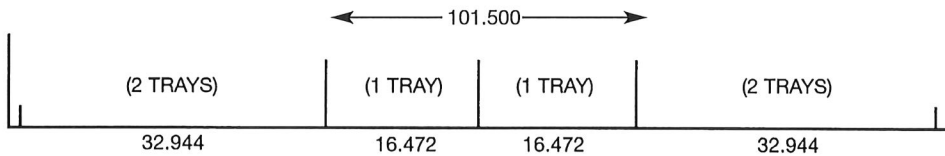
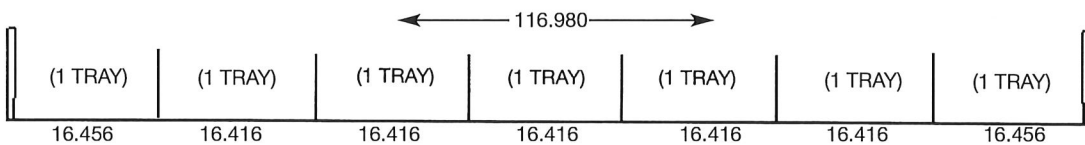
130"
WIDE
UNIT



Hanging Folder, Letter Tray, Single Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

Hanging Folder, Legal Tray, Single Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

5x3 Tray, Double Tier, 11" Pitch

77"
WIDE
UNIT

← 62.820 →				
(2)	(2 TRAYS)	(3 TRAYS)	(2 TRAYS)	(2)
(2)	(2 TRAYS)	(3 TRAYS)	(2 TRAYS)	(2)
10.566	10.566	15.822	10.566	10.566

102"
WIDE
UNIT

← 88.120 →					
(2)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(2)
(2)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(2)
10.566	15.822	15.822	15.822	15.822	10.566

116"
WIDE
UNIT

← 101.500 →						
(3)	(2 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(2 TRAYS)	(3)
(3)	(2 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(2 TRAYS)	(3)
15.822	10.566	15.822	15.822	15.822	10.566	15.822

130"
WIDE
UNIT

← 116.980 →							
(2)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(2)
(2)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(3 TRAYS)	(2)
10.566	15.822	15.822	15.822	15.822	15.822	15.822	10.566

Tab Tray, Double Tier, 11" Pitch

77"
WIDE
UNIT

← 62.820 →			
(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)
(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)
15.673	15.673	15.673	15.673

102"
WIDE
UNIT

← 88.120 →						
(2 TRAYS)	(2 TRAYS)	(1)	(1)	(1)	(2 TRAYS)	(2 TRAYS)
(2 TRAYS)	(2 TRAYS)	(1)	(1)	(1)	(2 TRAYS)	(2 TRAYS)
15.398	15.398	7.738	7.738	7.738	15.398	15.398

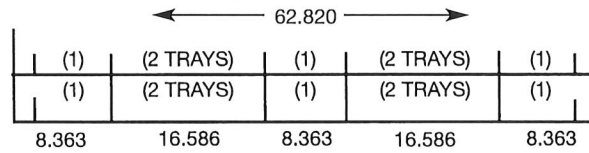
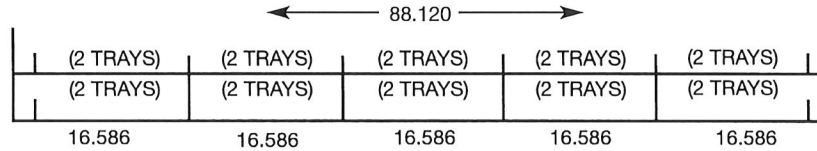
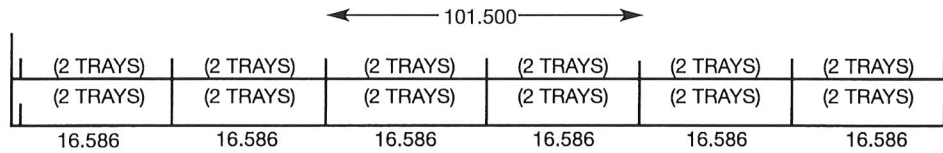
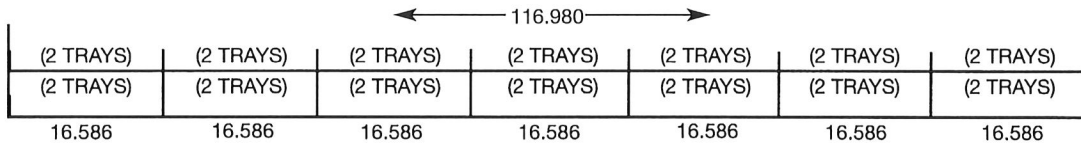
116"
WIDE
UNIT

← 101.500 →						
(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(1)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)
(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(1)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)
15.398	15.398	15.398	7.738	15.398	15.398	15.398

130"
WIDE
UNIT

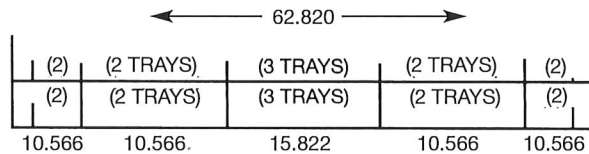
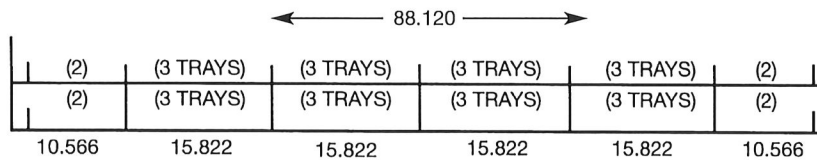
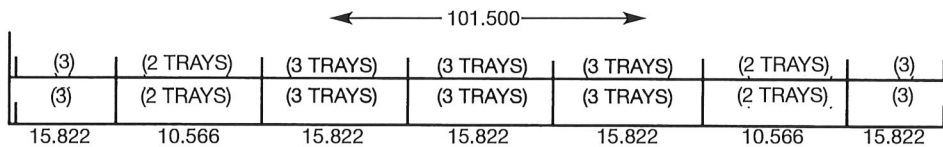
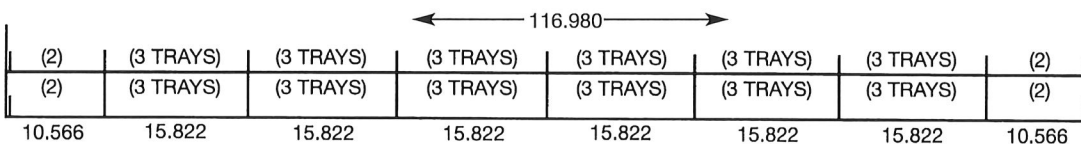
← 116.980 →								
(1)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(1)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(1)
(1)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(1)	(2 TRAYS)	(2 TRAYS)	(2 TRAYS)	(1)
7.738	15.398	15.398	15.398	7.738	15.398	15.398	15.398	7.738

8x5 Tray, Double Tier, 13" Pitch

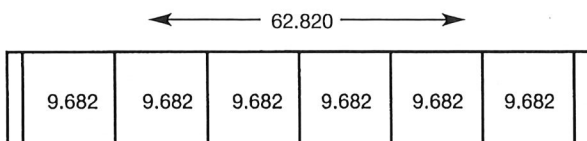
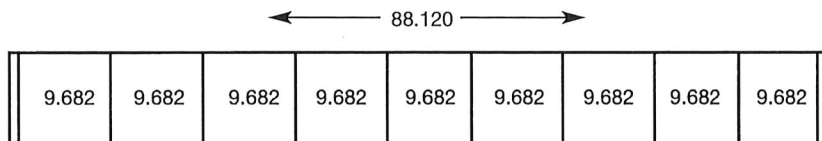
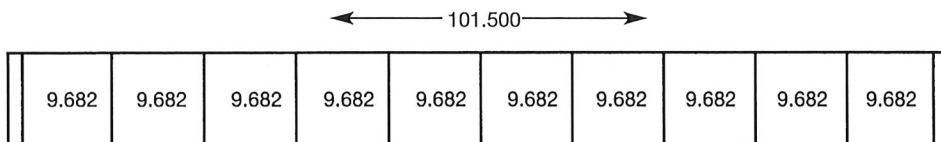
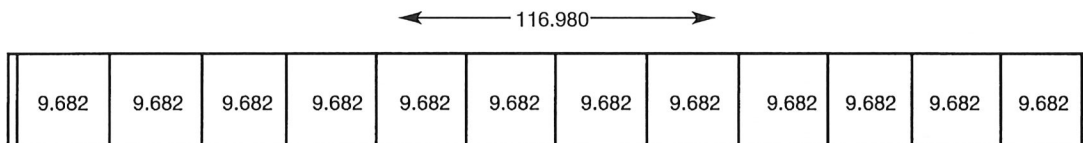
77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

*Requires special pricing - contact factory

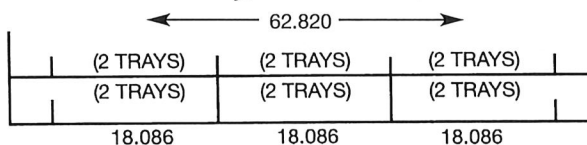
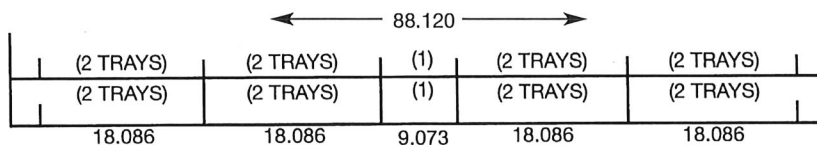
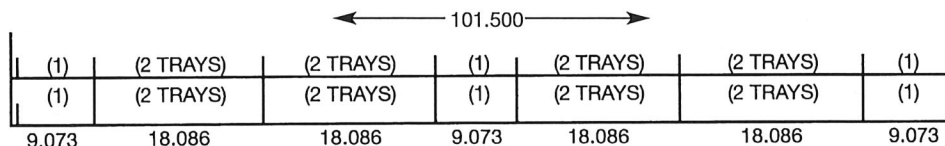
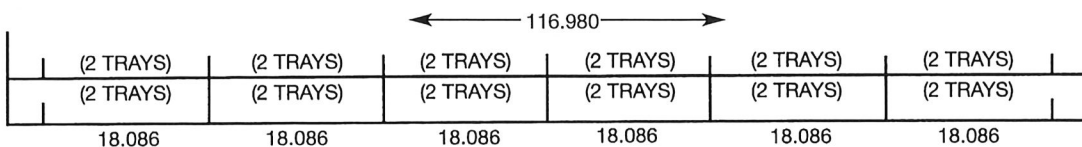
CD Tray Carrier 13" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

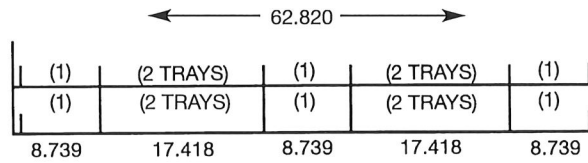
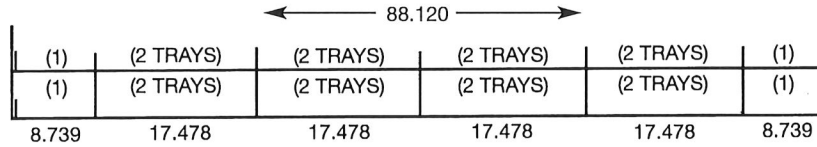
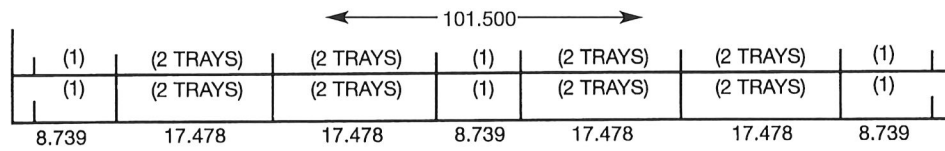
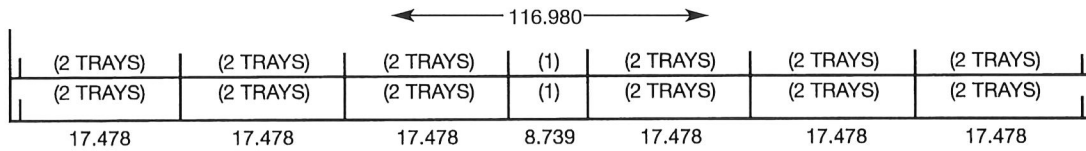
Letter/Legal Forms & Publications, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

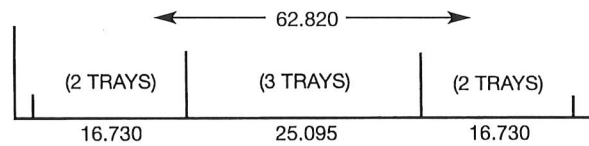
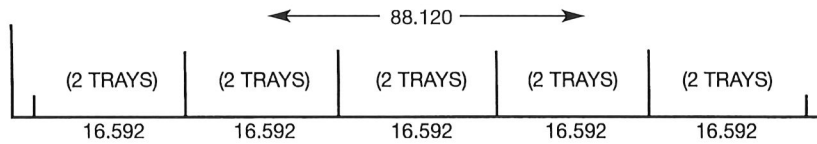
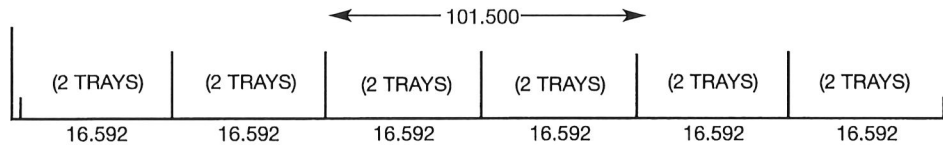
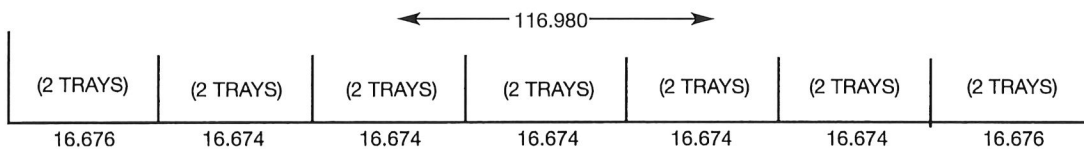
Check Tray, Double Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

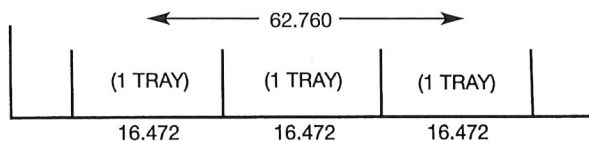
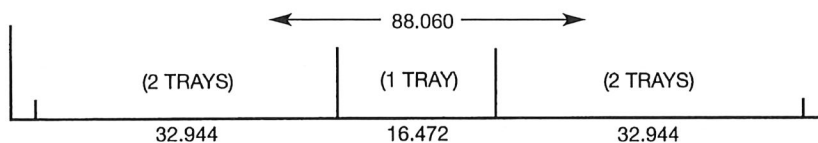
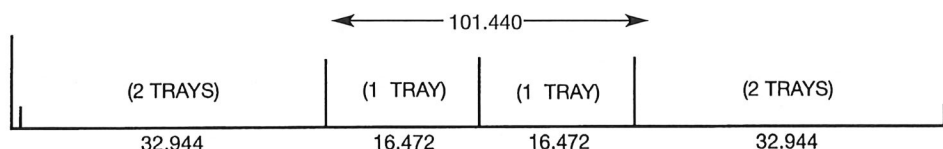
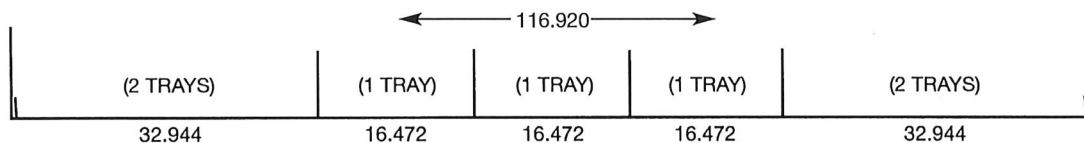
4x4x1 Tray, Double Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

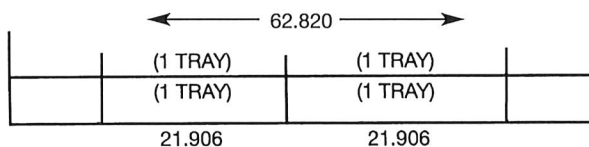
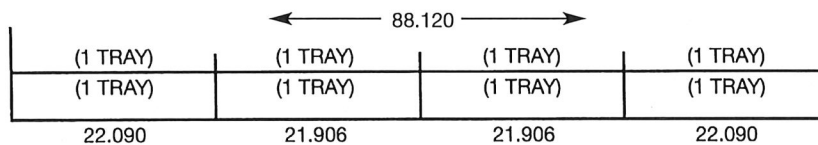
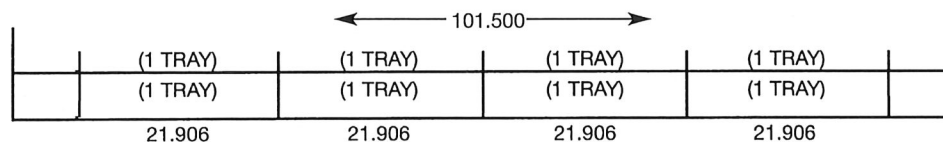
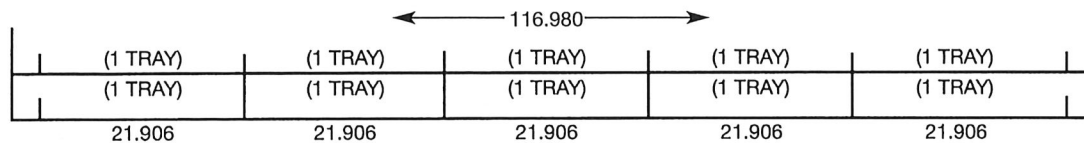
8x8 & 8x9 Tray, Single Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

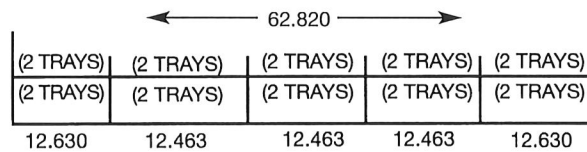
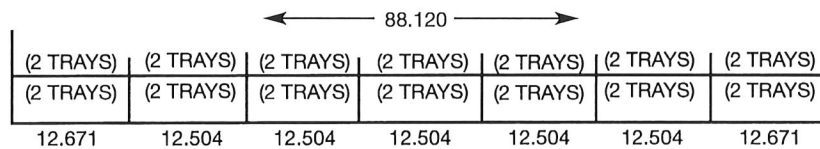
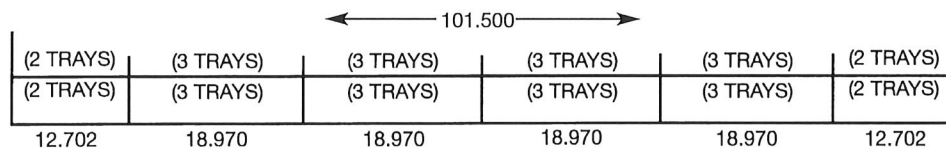
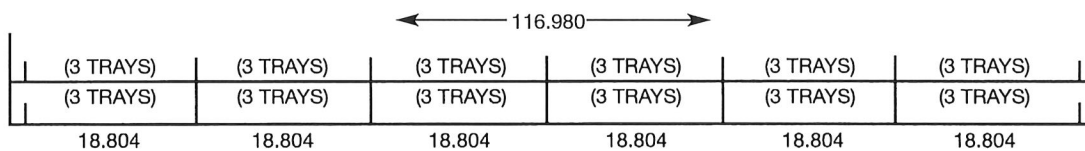
Letter/Legal Lateral Print-Out Binder Tray, 13" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

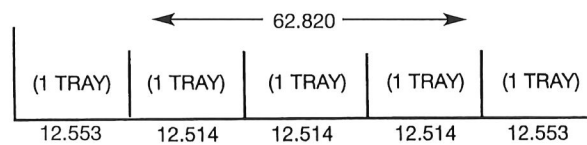
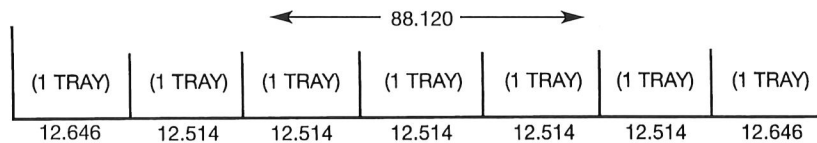
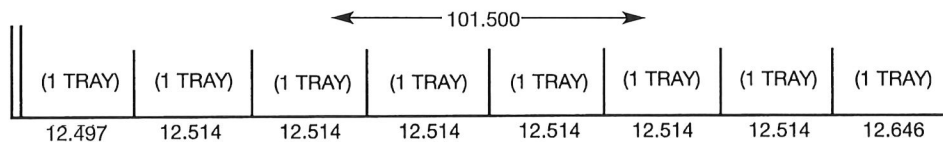
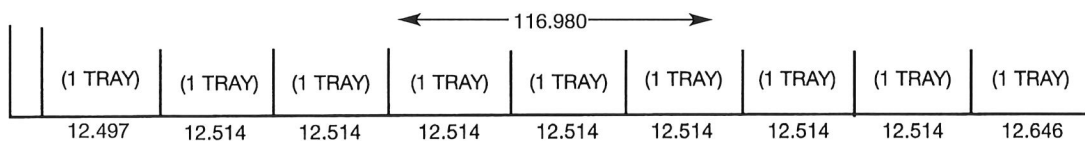
Unit Dose, Double Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

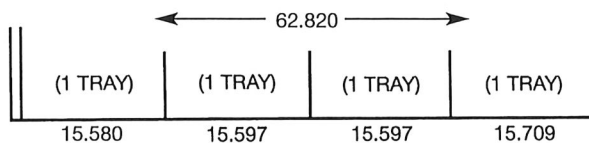
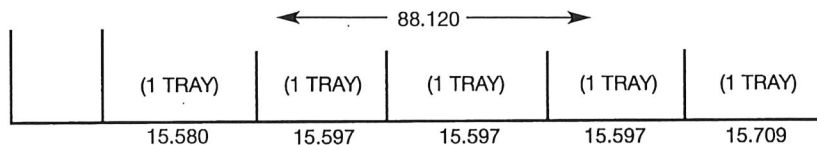
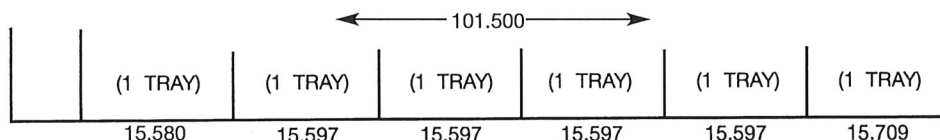
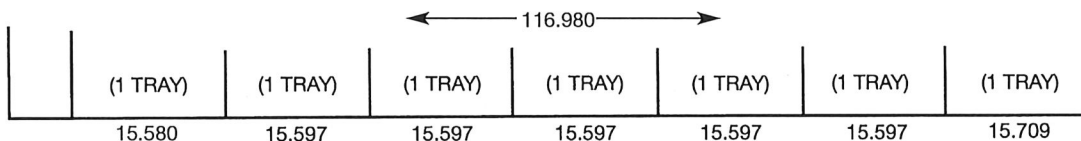
6x4 Tray, Double Tier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

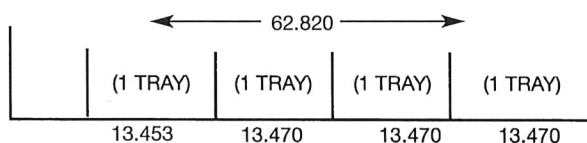
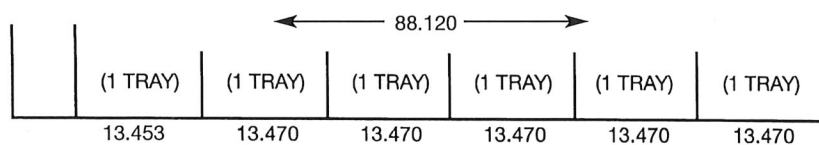
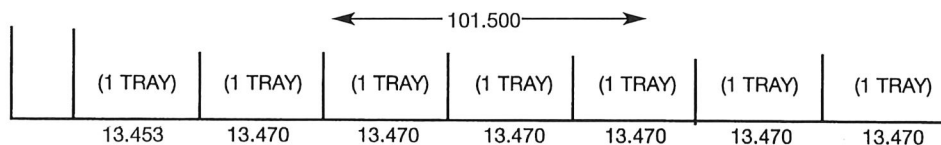
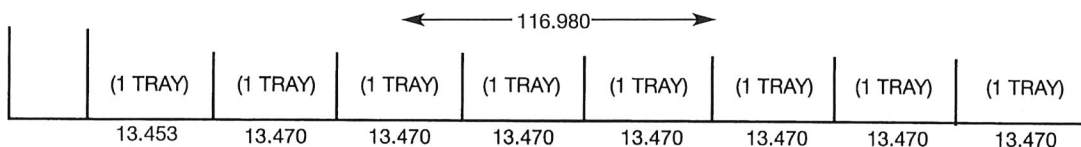
Letter Tray Security Carrier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

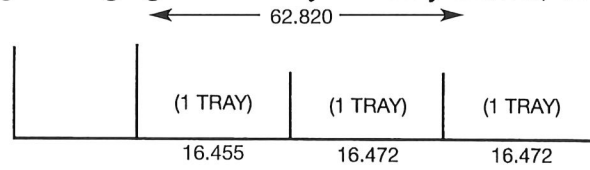
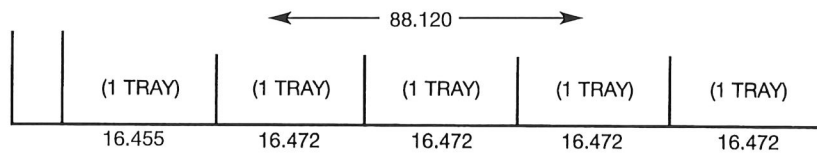
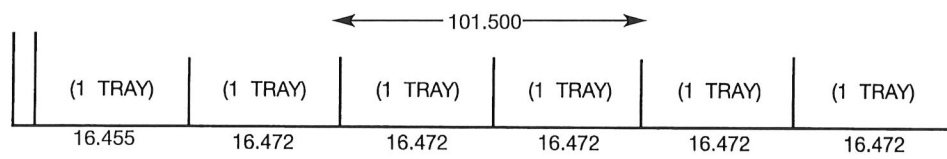
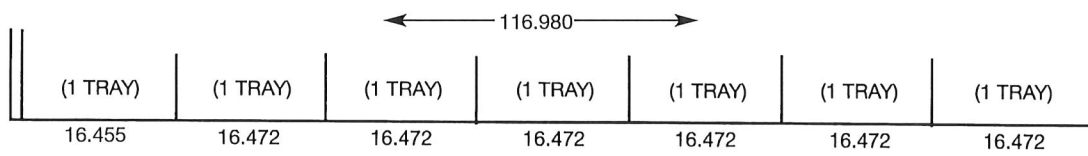
Legal Tray Security Carrier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

Letter Hanging Folder Tray Security Carrier, 11" Pitch

77"
WIDE
UNIT102"
WIDE
UNIT116"
WIDE
UNIT130"
WIDE
UNIT

Legal Hanging Folder Tray Security Carrier, 11" Pitch

**77"
WIDE
UNIT****102"
WIDE
UNIT****116"
WIDE
UNIT****130"
WIDE
UNIT**

CARRIER/TRAY RETROFIT

The following lists possible mixing and matching of Trays/Carriers between previous and present Lektriever models.

LEKTRIEVER TRAYS	TO BE USED IN LEKTRIEVER MODEL	WILL IT FIT?
LK-200 LEGAL TRAYS	LK-80 CARRIERS	YES
LK-200 LETTER TRAYS	LK-110 CARRIERS	NO
LK-80 LETTER TRAYS	LK-200 LETTER CARRIERS	YES
LK-80 LETTER TRAYS	LK-100 LEGAL LATERAL CARRIERS	YES
LK-200 LETTER TRAYS	LK-100 LEGAL LATERAL CARRIERS *Remove support roller assembly	YES
LK-80 LETTERTRAYS	LK-II CARRIERS	YES
LK-80 LEGAL TRAYS	LK-200 CARRIERS	YES
LK-80 8X5 TRAYS	LK-II CARRIERS	NO
LK-200 CHECK TRAYS	LK-80 CARRIERS *Remove support roller assembly	YES
LK-200 6 X 4 TRAYS	LK-80 CARRIERS	NO
LK-200 6 X 4 TRAYS	LK-200 LETTER TRAY CARRIERS	YES
LK-80 6 X 4 TRAYS	LK-200 LETTER TRAY CARRIERS	YES
LK-II LETTER TRAYS	LK-80 CARRIERS *Remove support roller assembly	YES
LK-III LETTER TRAYS	LK-80 CARRIERS *Remove support roller assembly	YES
LK-III 6 X 4 TRAYS	LK-80 CARRIERS *1/4" excess space front to rear	YES
LK-200 TAB TRAYS	LK-80 CARRIERS	YES

For combinations which are not listed, contact the factory.

SECTION IV KARDVEYER

General Information

All units include Electronic Eye Safety Devices and Safety Touch Bars, Safety Status Panels, and Hand Crank assembly. Trays are furnished as separate items. Unit prices include sliding doors.

All units shipped assembled except for posting board which must be attached at customer location.

DIMENSIONS:

UNIT HEIGHT	50"	
UNIT WIDTH	86 1/4", 101 1/2"	
UNIT DEPTH	44 3/16"	With Posting Board
	34 3/16"	Without Posting Board
POSTING BOARD DEPTH	11"	Overall
	10"	Extension beyond front of unit.
HEIGHT	32"	from floor to top surface on 50" high units

FINISHES:

STANDARD ACCENT PANEL COLORS:

Accent Blue - 024	Rust - 151	Black - 835	Gray Mist - 097
Corporate Green - 161	Salem Blue - 164	Fog - 961	Heather Beige - 093
Golden Tan - 130	Slate Blue - 015	Oyster - 929	
Pearl Gray - 020	Vintage Grape - 165	Sand - 607	
Quincy Blue - 166	Wall Street Gray - 163	Fawn Beige - 023	
Rimfire Roan - 162	Putty - 403	Light Gray - 150	

Base is black, interior is pearl gray and trays are pearl gray.

POSTING BOARD TOPS - One piece molded laminate with rounded edges. Laminates available are:

Gunstock Walnut	Blue Nebula
Erin	Windsor Mahogany
Spektrum	Blue Moraine
Hunter Nebula	

SHIPPING TERMS: F.O.B. Factory

FACTORY POINT: Marietta, Ohio

KARDVEYER SPECIFICATIONS

1. **Scope**
This specification sets forth the general product requirements for the KARDVEYER electromechanical filing, storage and retrieval units. It delineates the performance requirements, characteristics, construction and environmental considerations.
2. **Power Requirements**
The KARDVEYER unit shall require a single phase grounded electrical service of no less than 15 amperes with a voltage of 105 VAC to 125 VAC from 50 to 60 Hz. The Kardveyer shall have the Underwriters Laboratories Listing.
3. **Human Factors**
The location of controls shall be within arm's reach when sitting or standing at the posting board. The keyboard assembly shall be at the reference level, 32 inches above the floor on 50 inch high units. Maximum distance from front of operator's work station to last entry of media shall be 25 3/8 inches.
4. **Safety**
Safety devices shall be designed to stop the conveyor system if any obstruction exists above the posting board and through the vertical path of the front door when opened or between the carrier and top panel. These devices will be designed "fail-safe". Two non-identical systems shall be incorporated to provide redundancy. Maximum safe stopping distance of the conveyor system shall not exceed 3/4".
5. **Front Safety Eyes and Upper Safety Eye**
Front safety eyes shall be designed to provide a curtain of light (consisting of 8 equally spaced light beams) using pulsed infrared beams to protect the area exposed when the front door has been moved down to its opened position and one pulsed infrared beam to protect between carriers and the top panel.
6. **Safety Bar**
A safety bar shall be designed on the upper portion of the front door and have a downward travel of 3/4" to provide safety at the posting level. The top of the safety bar shall be 1 inch above the posting surface when the door is in the opened position.
7. **Carriers for Tray Filing of Media**

Carriers shall be made in two inside widths: 84.15", and 68.88". All carriers shall be 12.06" front to rear on the inside.

Carriers shall provide for tray filing of media sizes 5 X 3, 6 X 4, 7 3/8 X 3 1/4 (tab), 8 X 5 and checks. All media to be filed in trays from front to rear.

The carriers shall be designed to effectively contain the trays when the conveyor system is in motion. Limitations on size shall be as follows.
8. **Tray Filing of Card Sizes**

Carrier Pitch	Maximum Vertical Space Available
4 1/2"	4"
5 1/4"	4 3/4"
6"	5 1/2"
9. **Tracking**
Carrier stabilizer tracks and arms shall be designed to provide stability to each end of the carrier throughout the complete carrier travel circuit. This shall be accomplished by using two stabilizer rollers at each carrier end. The roller guide tracks shall consist of upper and lower curved portions and vertical portions. One of the two rollers will always be in an effective section of stabilizer track at each end of the carrier.
10. **Controls**
Each KARDVEYER unit is equipped with basic controls that enable you to start, stop and completely direct the operation of it.

10.1. Master On/Off Switch

Depressing the "ON" switch will turn the unit "ON". If the ON/OFF switch fails to light, verify that the power cord is plugged into an electrical outlet. The unit may be turned off at any time.

10.2. Safety Status Panel

The KARDVEYER unit safety system continually monitors the proper operation of the unit and prevents operation of or abruptly stops the unit if any safety sensor has been activated. Status of this system is indicated on a Safety Status Panel which is located directly above the "ON/OFF" switch.

10.3. Keyboard Console

The keyboard console provides complete control to scan or select media stored in the unit. The console consists of a numeric touch pad, display and index windows.

- a. Clear Key:
Any level selection may be cleared or canceled by depressing "CLEAR". A new level selection may then be entered.
- b. Level Selection:
A level may be selected by entering one or two digits of the selection and depressing "ENTER". The selected level will be immediately brought to the posting position.
- c. Scanning:
Levels may be scanned at any time by depressing either "UP" or "DN". Scanning will stop when the key is released.
- d. Memory:
In addition to the normal memory during scanning, any displayed selection may be temporarily stored for later recall. One of two memory modes may be selected during installation; Single Reference or Multiple Buffer Mode.
 1. Single Reference Mode:
Any displayed selection may be temporarily stored in memory for later recall by depressing "MS" memory store.
The stored selection may be recalled to the display and selected at any time by depressing "MR" memory recall. The selection is not erased from memory when recalled; it will remain in the memory until another selection is stored.
 2. Multiple Buffer Mode:
Multiple level selections may be entered and stored by depressing MS after each entry. Up to forty selections may be stored before a long tone will indicate the buffer is full. Selections may be recalled in the order they were stored by depressing "MR". Each selection is erased from memory when recalled.
- e. Safety Functions:
The unit will abruptly stop if any safety system has been activated. The Safety Status Panel will indicate the particular condition that stopped the unit.
- f. Audible Signal:
A short tone confirms each key entry.
- g. Load Indicator:
The display will flash once per second when the media weight being lifted is more than 80% maximum imbalance allowed for the unit.

11. Keyboard Selector Panel Assembly

A keyboard selector panel and two digit display shall be provided and located near the front and at the center of the posting board surface. The selector panel shall be a ten digit keyboard to be used for carrier selection. The selector panel shall also include a "CLEAR" key. The "CLEAR" key shall be capable of clearing the display and stopping the conveyor system at any time. The "ENTER" key shall cause the unit to continue moving to the level previously selected after having been stopped due to activation of a safety device while the unit was in motion.

The selector panel shall also include an "UP" and "DN" (down) key. These may be used to operate the unit in the desired direction to scan the files. After using the "UP" or "DN" key, the previously selected carrier will be posted by depressing the "ENTER" key and the display will indicate the previously selected number.

12. Control Switch and Safety Status Panel

The control switch shall be used to control power application to the unit.

The safety status panel shall indicate all safety systems are clear by lighting a green light labeled NORMAL at the top of a column of four lights. Three additional red lights, when one or more is lit, shall indicate a safety system activated. These red lights shall be labeled as follows from the top down: upper safety eye, front safety eye and safety bar.

13. Control Circuits

Control circuitry shall be solid state and designed with a modular concept. Relays may be used for switching when current is not flowing through the relay contacts. The control circuits shall be mounted on a removable chassis which will be accessible from the right side of the unit. The following conditions shall also be provided for:

- a. The control shall be designed for ease of maintenance.
- b. The circuitry shall control carrier positioning to within plus or minus 1/4" of the posting level.
- c. The micro processor control shall be designed to provide movement through the shortest path for bringing carriers to the posting level.
- d. Adequate protection of the unit under stalled and overloaded conditions.
- e. Power requirements:
 - 105 VAC to 125 VAC from 50 to 60 Hz.
 - .25 AMP or less with motor not running.
 - 6 AMP average with motor running.
 - 12 AMP maximum with motor running and under maximum imbalance conditions.
- f. Transient Condition
 - Shall consist of transient current during unit cycle start operation not exceeding 15 amps for a maximum duration of 0.2 seconds.

14. Posting Board

A work surface for operator convenience shall be located directly in front of the access area. It shall be designed to withstand a static load of 250 pounds centrally located without yielding.

The posting board shall extend over the entire width and out from the front of the unit 10".

The working surface shall be one piece construction of 5/8" thick 45-lb. density particle board covered with a surface material which shall be durable, smooth, easy to clean and of a decorative nature.

15. Sliding Doors

Two sliding doors shall be provided on the upper front portion of the unit. They shall close off the access area and will be equipped to work in conjunction with latching and locking mechanisms to provide security for the stored media. The vertical sliding door shall be counterbalanced such that not more than ten pounds force shall be required to move it in either the up or down direction. The sliding doors shall move in guide channels which are assembled to the end support assemblies.

16. Carriers vs. Load

Carriers shall be available in two widths - 84.15" and 68.88", each with a load capacity of 165 pounds. The widest carrier shall be designed in such a manner that not more than .200" static deflection of front or rear carrier angles shall occur at center when subjected to the maximum load of 165 pounds evenly distributed.

17. Tray Filing

Trays shall also be designed to house the card size media 5 X 3, 6 X 4, 8 X 5, check and tab, filed front to rear. (5 X 3 media - .45 lbs./filing inch, 6 X 4 media -.72 lbs./filing inch, 8 X 5 media - 1.2 lbs./filing inch, check media - .80 lbs./filing inch, and tab media -.71 lbs./filing inch, tight packed condition.) The card size trays shall be single compartment trays.

All trays shall be equipped with followers to provide support of media when partly filled. The trays shall be designed to be retained by the carriers when the conveyor system is in motion. Maximum vertical space available shall be described in Section IV, Page 40.

18. Cycle Time

One complete cycle time, with the conveyor system balanced, will be the time required from entering an instruction, via the keyboard carrier selector panel, until the requested carrier is delivered to the access area.

Each complete cycle time describes conveyor operator time. The minimum, average and maximum cycle times will be as follows:

Carriers Per Unit	Unit Height	Minimum	Average	Maximum
10	50"	1.8 sec.	4.4 sec.	8.7 sec.
12	50"	1.6 sec.	4.6 sec.	9.1 sec.
14	50"	1.4 sec.	4.6 sec.	9.1 sec.

19. Conveyor Imbalance

The conveyor system shall be capable of transporting loads up to a 350 pound maximum imbalance condition.

20. Reliability

The equipment shall be designed for a service use of ten years when operated in eight hour shifts, five shifts per week. Average conveyor movement time shall be one hour per week. Service use shall be considered all time when power is on.

21. Maintainability

The equipment shall be designed to enable front panel and end panel access for maintenance and repair.

22. Size

The KARDVEYER units shall be designed in standard height, widths and depth as follows:

- a. Heights
All KARDVEYER units shall be made in a standard height of 50".
- b. Widths
The KARDVEYER units shall be made in two standard widths, 86 1/4" and 101 1/2".
- c. Depth
The KARDVEYER unit shall be made in one standard depth, 44 - 3/16" including posting board extension of 10".

KARDVEYER STEEL GAUGES

The following list of major Kardveyer assemblies has been prepared by our Engineering Department for your information.

Trays	26 GA	(.018")
Tracks	16 GA	(.059")
Main Column Assembly	14 GA	(.075")
Carrier Body	16 GA	(.059")
Carrier Lips	11 GA	(.120")
Base Spreader Front	12 GA	(.105")
Base Spreader Rear	12 GA	(.105")
Spreader Between Columns	14 GA	(.075")
Skins	18 GA	(.047")
Suspension Arms	3/16" X 2" wide	
Chain for Conveyor	#60 (3/4" pitch)	
	Tensile Strength = 8,500 lbs.	

KARDVEYER

Unit Configuration (Without Trays)

Overall Dimensions		Number of Carriers	Maximum Recommended Load/Carrier	Weights	Shipping
H	W		Lbs.	Net	Weights
50	86-1/4	10	165	1100	1336
		12		1186	1430
		14		1316	1550
50	101-1/2	10	165	1254	1460
		12		1358	1594
		14		1515	1742

KARDVEYER TRAY

Shipping Weights

TRAY	CATALOG NO.	NO. OF TRAYS PER CARTON	CARTON WEIGHT
Check w/follower 8 23/32 x 3 1/2	2548292.1	20	42
Check w/Rod 8 23/32 x 3 1/2	2548291.1	20	48
5 x 3	2548284.1	36	48
6 x 4	2548288.2	20	38
8 x 5	2548294.1	20	50
Tab	2548290.1	20	38

INSIDE WIDTH AND DEPTH OF CARRIER

Width of Unit	Carrier Width	Carrier Depth
101"	84.1"	12.062"
86-1/4"	68.8"	12.062"

Carrier Lip; Front -1.5"

Carrier Lip; Back -1.5"

TRAY SPECIFICATIONS FOR KARDVEYER

KARDVEYER MEDIA TRAY	CATALOG NO	TRAY/ CARRIER	TRAY WEIGHT LBS.	MAXIMUM MEDIA WEIGHT PER TRAY	MAX. RECOM. WEIGHT/ CARRIER MEDIA & TRAY	PITCH	EXTERIOR DIMENSIONS			INTERIOR DIMENSIONS		MAX. FORM SIZE	
							HEIGHT	WIDTH	DEPTH	WIDTH	DEPTH	VERTICAL TRAYS	
												HEIGHT	WIDTH
CHECK W/O ROD 8-23/32 X 3-1/2	2548292.1	86 101											
CHECK W/ROD 8-23/32 X 3-1/2	2548291.1	7 9	1.750	9.00		5-1/4, 6	3.000	8.953	12.062	8.885	11.34	Based Upon Pitch of Unit*	8-3/4
		7 9	1.562	8.42		5-1/4, 6	3.000	8.953	12.062	8.885	11.34		8-3/4
5 X 3 VERT.	2548284.1	13 16	1.250	5.40		4-1/2	3.000	5.203	12.062	5.135	11.97		5-1/32
6 X 4 VERT.	2548288.1	11 13	1.375	8.64	86" UNIT= 165 lbs.	5-1/4	3.688	6.203	12.062	6.109	11.97		6-1/16
8 X 5 VERT.	2548294.1	8 10	2.125	14.40		6	4.688	8.203	12.062	8.135	11.97		8-1/32
TAB VERT.	2548290.1	9 11	1.625	9.13	101" UNIT= 165 lbs.	4-1/2	3.00	7.609	12.062	7.541	11.97		7-13/32

FOOTNOTE:

*4-1/2" Pitch Unit (50" High 14 Carrier Models) Max. Form Ht. = 4"
 5 1/4" Pitch Unit (50" High 12 Carrier Models) Max. Form Ht. = 4-3/4"
 6" Pitch Unit (50" High 10 Carrier Models) Max. Form Ht. = 5-1/2"

