

# SPECIFICATIONS

## GENERAL

DEPTH .....	27-1/2 in. (70cm)
WIDTH .....	41-7/8 in. (106 cm)
HEIGHT .....	50-11/16 in (129 cm)
SHIPPING WEIGHT (DOMESTIC) .....	400 lbs.
SHIPPING WEIGHT (EXPORT) .....	415 lbs.
NET WEIGHT .....	360 lbs. (163 kg)
POWER REQUIREMENTS .....	120 vac, 50/60 Hz, 490 watts, 4.9 amps

## RECORD CHANGER MECHANISM

CAPACITY .....	100 records
RECORD SIZE .....	7 inches
SPEED .....	33 and 45 rpm

## CREDIT AND PRICING SYSTEM

ACCUMULATOR TYPE CREDIT COMPUTER -- DOLLAR BILLS	OPTIONAL
COINS ACCEPTED .....	Nickels Dimes Quarters Half-Dollars
TOTAL CREDIT ACCUMULATIONS .....	255 Standard Plays
PRICING .....	See pricing chart

## SOUND SYSTEM

CARTRIDGE	
TYPE .....	Shure Dynetic variable reluctance
FREQUENCY RESPONSE .....	20 to 20,000 Hz
CHANNEL SEPARATION .....	25 db @ 1,000 Hz
NOMINAL COMPLIANCE .....	$7.5 \times 10^{-6}$ cm/dyne
TRACKING FORCE .....	4 grams
OUTPUT .....	7 mv.
STYLUS .....	0.7 mil, diamond
POWER AMPLIFIER	
POWER OUTPUT PER CHANNEL, 64 WATT AMPLIFIER	32 watts rms (70-volt output)
POWER OUTPUT PER CHANNEL, 120 WATT AMPLIFIER .....	60 watts rms (70-volt output)
PREAMPLIFIER	
AVC CONTROL RANGE .....	40 db
TREBLE CONTROL .....	12 db/octave 10,000 Hz full 6,000 Hz moderate 3,000 Hz low
BASS CONTROL .....	Compensates for absss loss at low volume levels 12 db per octave

# R-74



ARLINGTON MODEL



CLASSIC MODEL

## SELECTION SYSTEM

CAPACITY. . . . . 200 selections

## TRANSFORMER PACKAGE

POWER LEVELS FOR PHONOGRAPH SPEAKERS . . . . . 1, 4, 16, 28 64 watts.  
 PROVIDES 70-VOLT LINE FOR EXTENSION SPEAKERS . . . . . 28 watts in dual channel position

## SPEAKER SYSTEM

	LOW FREQUENCY	MID FREQUENCY	HIGH FREQUENCY
SPEAKER DIAMETER. . . . .	10 inches	6 inches	3 inches
CROSSOVER . . . . .	350 Hz	5,000 Hz	
SYSTEM FREQUENCY RESPONSE . . . . .	50 to 17,000 Hz		

## LIGHTING

SIDES . . . . .	Fluorescent, 8 watts, 12 inches (2) 702-00601
SELECTOR AND TITLE RACK . . . . .	Fluorescent, 25 watts, 33 inches, 706-00601
FRONT DOOR . . . . .	Fluorescent, 25 watts, 33 inches, 706-00601
CREDIT WINDOW . . . . .	Incandescent, No. 757, (2) 28 V, 200-50763

## FUSES AND CIRCUIT BREAKERS

### JUNCTION BOX

120 VAC CIRCUIT . . . . .	10 Amp Circuit Breaker, 725-00734
120 VAC CIRCUIT (TRANSFORMER PRIMARY ONLY) . . . . .	2 Amp Circuit Breaker, 715-00733
30 VDC CIRCUIT . . . . .	3 Amp Circuit Breaker, 717-00733

### AMPLIFIER

Stereo 64 W	
120 VAC CIRCUIT . . . . .	1-1/2 Amp Circuit Breaker, 713-00733
DC CIRCUIT . . . . .	2 Amp Fuse, 701-00720 (4)
Stereo 120 W	
120 VAC CIRCUIT . . . . .	3 Amp, Circuit Breaker, 717-00733
DC CIRCUIT . . . . .	5, Amp, Type MTH-5, Fuse, 710-00720 (4)

CREDIT COMPUTER . . . . . 1/4 Amp, Cartridge Fuse, 707-00720

**SPEAKER SYSTEM** consists of two 10-inch low frequency speakers, two 6-inch speakers for mid-frequencies, and two high frequency tweeters. Crossover networks are also provided. (Bass speakers mounted in cabinet below).

**SELECTOR ASSEMBLY** consists of 3 push-button switch banks, a latch coil, a select pulse and latch relay, and a start relay. Each pushbutton completes a circuit to a corresponding search unit commutator segment. Premium pricing switches and a test switch are included on selector.

**CREDIT COMPUTER** registers credit for record play when coins operate the coin switches. Credit is removed when a selection is made. Also contains price programming switches.

**JUNCTION BOX** distributes 120-volt power to phonograph components and provides 30-volt AC and 30-volt DC power for the selection system, incandescent lamps, relays, and solenoids.

**RECORD CHANGER MECHANISM** holds 100 records and plays 200 selections.

**REAR ACCESS DOOR** contains an amplifier volume control, a cancel pushbutton, a manual on-off toggle switch, and terminal strips for wallbox, remote volume control, external speaker connections.

**PREAMPLIFIER AND AMPLIFIER** amplifies phonograph cartridge output and drives the speaker system.

**OUTPUT TRANSFORMER PACKAGE** matches amplifier output to speaker system impedance.

**SEARCH UNIT AND PINWHEEL ASSEMBLY** is a component of selection system. Pushes out pins on a mechanical pinwheel memory that correspond to record selection.

**SLUG REJECTOR** accepts good coins and rejects slugs and bad coins. Tests coins for size, thickness, weight, metal content, and shape.

**COIN SWITCHES** establish credit in the credit computer. Operated by coins as they fall from slug rejector into cash bag.

FIGURE 1-1. MAJOR COMPONENTS

## SECTION 1 - DESCRIPTION

### GENERAL

The R-74 represents the continuing improvement in styling and sound reproduction expected of Rowe/AMI's forward looking, pace-setting phonographs. A 200 selection, high fidelity stereo phonograph, the R-74 features solid-state circuit and pricing, 64 watts of honest speaker-driving power, greater sound coverage, and ease and safety in servicing.

Circuit breaker protection of electrical systems, and a fault ground system are features retained in the R-74. The time-tested record changer mechanism requires lubrication only once every five years and the entire phonograph is covered by the most liberal warranty in the music industry.

The phonograph contains a stereo sound system which starts with a 0.7 mil diamond stylus tracking at four grams pressure and ends with the biggest sound available. The 64-watt full-range, solid-state amplifier incorporates automatic volume control, automatic record quality control and automatic loudness contour. Location of middle and high frequency speakers gives the R-74 greater sound coverage. Bass power has been increased and the duct-tuned bass enclosure is larger than ever. The resulting increase in bass levels is immediately noticeable.

Each of the choices in styling offer brushed, epoxy-coated aluminum grilles, vinyl-clad steel lower sides, high-impact polystyrene and stainless steel trim, plus chrome plating over dual nickel for beauty and durability. All models provide subtly-lighted side panels, and door and side panel glass is tempered safety glass.

Included in an array of optional accessory equipment is a 120 watt solid state amplifier for those locations with heavy extension speaker requirements. This proven amplifier delivers an honest 120 watts of power (rms) to the speaker system.

### ACCESSORY EQUIPMENT

Phonograph accessory equipment is listed in the following table. All accessory equipment and kits include mounting parts and installation instructions. These accessories are available from your Rowe/AMI Distributor. New accessories will be announced as they become available in service bulletins issued by Rowe International, Inc. These service bulletins are mailed to all Rowe Distributors. Blank space has been left on page 1-3 for writing in new accessories.

**TABLE 1-1. ACCESSORY EQUIPMENT**

PART NO.	DESCRIPTION	FUNCTION
601-07406	Optional 120-Watt (RMS) Stereo Amplifier and Output Transformer Package.	Used in locations with heavy extension speaker requirements. Plugs into phono harness. Delivers 120W (RMS) power. Includes matching output transformer package.
214-14375	Dollar Bill Acceptor	Accepts valid one dollar bills in U.S. currency and establishes one dollar's worth of credit in the phonograph credit computer.
201-66819	Digital Print Out Money Meter	Solid state device records total receipts on ticket inserted at each service call. The surest security device available. Plug in installation.
206-13723	Monitor Alarm Kit	Makes an incredibly loud noise if an attempt is made to pry open or smash in cash box door. Consists of a horn operated by a replaceable Freon aerosol can. Because the alarm is not electrically operated and is not accessible without a key, it cannot be disarmed.

PART NO.	DESCRIPTION	FUNCTION
201-66447	Phono Paging Kit	All plug-in unit, complete with microphone, preamplifier, and 50 foot microphone cable to allow use of phonograph sound system as paging system.
603-03400	WRC Walette Wallbox	Remote control unit for phonograph. Has self-contained credit and pricing and selection system. Takes nickels, dimes quarters, half-dollars.
601-03400	WRA Walette Wallbox	Same as WRC except that it takes nickels, dimes, and quarters only.
601-03380	CGA Stepper	Permits phonograph operation with Walette wallboxes, Other models available for competitor wallboxes.
401-05627	Auxiliary Power Supply	Powers up to six Rowe/AMI Walette wallboxes. Low-voltage supply separate from that required for the phonograph.
401-05678	Secondary Power Supply	Powers each additional six or more Rowe/AMI Walette wallboxes.  Other power supplies available for competitive equipment.
SPEC 5054	12-Conductor Cable	For connecting Walette to Phonograph.
601-02187	Extension Speaker (Model EX-201)	12-watt, compact "bookshelf" speaker system contains one 8-inch full range speaker.
601-02188	Extension Speaker (Model EX-301)	25-watt, two channel system includes 3-1/2 inch tweeter and 10-inch bass speaker.
601-02105	Extension Speaker (Model EX-401)	25-watt, high efficiency, two-channel system includes horn and cone-type speaker.
402-02190	Decorator Extension Speaker (Model EX-700)	Wall-type speaker with walnut cabinet. 70.7 volts, 5 watts. Available with volume control.
301-03382	Monaural, 70 volt Line Level, Multiple Speaker Remote Volume Control (Model RC-800)	Multiple speaker control for use where it is desirable to control the volume of several speakers from a single point. Transformer-type control for use with 70. 7-volt, constant-voltage lines only. Rated at 15 watts maximum. Stainless steel mounting plate fits standard deep electrical outlet box.
301-03396	Stereo, 70-volt Line Level, Multiple Speaker Remote Volume Control (Model RC-800)	Stereo speaker line control. Similar to 301-03382 control but controls two speaker lines simultaneously. Requires double electrical switch box for mounting.

PART NO.	DESCRIPTION	FUNCTION
306-03333	Monaural Individual Speaker Remote Volume Control (Model RC-600)	Individual speaker volume control for controlling a single speaker. Contains a heavy-duty L pad control rated at 15 watts of audio power. An on-off switch allows speaker to be turned completely off.
301-03387	Monaural Individual Speaker Remote Volume Control (Model RC-700)	Individual speaker volume control for controlling a single speaker. Similar to Model RC-600 except that the L pad and switch are mounted on a stainless steel plate which fits a standard deep electrical outlet box.
301-03399	Stereo Individual Speaker Remote Volume Control (Model RC-700)	Dual speaker volume control for controlling one set of stereo speakers. Contains two ganged heavy-duty L pads rated at 15 watts of audio power each. On-off switch controls both speakers. Mounted on a stainless steel plate that fits a standard deep electrical outlet box.
301-06322	Remote Volume and Cancel Control	Remote stereo volume control and cancel button.
SPEC 5064	Remote Volume and Cancel Control Cable	For connecting remote volume and cancel control to Phonograph.
302-06322	Remote Volume and Cancel Control with Cable	Remote stereo volume and cancel control with 50 feet of cable.

### COMPATIBILITY CHART

The table on the following page shows the compatibility of various component systems and accessories with various model phonographs. Use this table as an aid in determining interchangeability of accessories, for field exchange and ordering purposes.

TABLE 1-2. COMPATIBILITY CHART

PRODUCT	EQUIPMENT	TI-2 STD	TI2 Solid State Credit Com.	R-74	RI-1	RI-1G	CTI-1	HAJ	HLJ
64 Watt Amplifier	601-02179	OK	STD	STD	OK	OK	OK	OK	OK
* 64 W Output Transformer, 5 Pos. SW	401-06322	OK	STD	1&3	OK	OK	OK	OK	OK
* 64 W Output Transformer, 6 Pos. SW	403-06322	2	2	STD	2	2	2	OK&3	OK&3
50 W Hybrid Amplifier W/Pre-Amp		601-04358 STD	OK	1&3	602-04572 STD	602-04572 STD	601-04358 STD		
100W Amp. with 100W Output Trans.	602-04195	OK	OK	1&3			OK	STD	STD
120W Amp. with 120W Output Trans.	601-07406	2	2	OK			2	OK&3	OK&3
Credit Computer No. 1	601-06666		STD	OK					
Credit Computer No. 2	601-07593		OK	STD					
MAF Money Meter	610-03301	STD					STD	STD	5
MBA Digital Print-Out Money Meter	200-66699	OK	STD	4			OK		STD
MBB Digital Print-Out Money Meter	201-66819			STD					4
WRA, WRC Wallbox	604-03400; 605-03400	STD	STD	STD	STD	STD	STD	STD	STD
BA-2 Bill Acceptor W/Chopper		207-14375 STD	6	7			212-14375 STD		
BA-2 Bill Acceptor W/O Chopper			210-14375 STD	216-14375 STD					
Bill Stacker	601-07660			STD					
Bill Box		STD	STD				STD		

\* Dual channel possible. (Requires switch on T.A. cable for stereo records).  
 1. Will be mono. limited to 24W. in jukebox speakers.  
 2. Bass only  
 3. Need adaptor harness (Mate-N-Lok to Universal) if extension speakers used.  
 4. Need adaptor harness (Mate-N-Lok to Univ. Amp.)  
 5. Need adaptor harness (12 way to 15 way)(Mate-N-Lok)  
 6. Replace chopper with S.S. credit pulse board ass'y.  
 7. Note 6 plus Adaptor Kit (Stacker).

## BILL ACCEPTOR INTERCHANGEABILITY

The bill acceptor used in the R-74 can be adapted for use with MM-6, TI-1, and TI-2 models. In addition bill acceptors used in MM-6, TI-1, and TI-2 models are adaptable to the R-74. Specific information for each conversion is listed in the following chart:

TABLE 1-3. BILL ACCEPTOR INTERCHANGEABILITY CHART

ADAPTATION		BILL ACCEPTOR CONTROL CENTER PART NO.	ADAPTATION INSTRUCTIONS
FROM	TO		
R-74 CREDIT COMPUTER	TI-2 CREDIT COMPUTER	607-03769	SUBSTITUTE 401-06521 CREDIT PULSE BOARD ASSEMBLY FOR 402-06521 OR CUT THE RUNNER AT PIN 5. SOME EARLY 401-06521 CIRCUIT BOARDS WERE CONVERTED TO 402-06521 BY SOLDERING A JUMPER WIRE TO PIN 5. IF YOU HAVE ONE OF THESE BOARDS, SIMPLY REMOVE THIS JUMPER
R-74 CREDIT COMPUTER	TI-2 ELECTRO-MECHANICAL CREDIT UNIT	607-03769	SUBSTITUTE 401-05730 PULSE CHOPPER FOR 402-06521 PULSE BOARD ASSEMBLY.
R-74 CREDIT COMPUTER	TI-1 OR MM-6 ELECTRO-MECHANICAL CREDIT UNIT	607-03769	SUBSTITUTE 401-05730 PULSE CHOPPER FOR 402-06521 PULSE BOARD ASSEMBLY. REMOVE AND TAPE WHITE/SLATE WIRE FROM CENTER PIN AT 7-PIN COMBO PLUG.
TI-2 CREDIT COMPUTER	R-74 CREDIT COMPUTER	606-03769	* SUBSTITUTE 402-06521 CREDIT PULSE BOARD FOR 401-06521 OR ADD A JUMPER WIRE BETWEEN PINS 5 AND 12.
TI-2, TI-1 OR MM-6 ELECTRO-MECHANICAL CREDIT COMPUTER	R-74 CREDIT COMPUTER	604-03769	* SUBSTITUTE 402-06521 CREDIT PULSE BOARD FOR 401-05730 PULSE CHOPPER

\* WHEN CONTROL CENTERS 604-03769 OR 606-03769 ARE USED, THE BILL ACCEPTOR WILL NOT BE LOCKED OUT DURING THE STACK CYCLE. TO ADD THIS FEATURE, REMOVE AND TAPE THE YELLOW/GREEN WIRE FROM THE CENTER POSITION OF THE 7-PIN COMBO PLUG. CONNECT A WHITE/SLATE WIRE TO THE CENTER POSITION, RUN THROUGH THE HARNESS TO THE CONTROL CENTER AND CONNECT TO THE EXISTING WHITE/SLATE WIRE ON PIN 12 OF THE LOGIC BOARD EDGE CONNECTOR.