

***murphy* A172R**

Supersonic heterodyne receiver and record reproducer for A.C. mains (200-250 volts 50 cycles per second).
CIRCUITS—*Radio*—Uses a triode-heptode frequency changer ; variable-mu pentode i.f. amplifier ; “magic eye” tuning indicator ; double diode triode detector a.g.c. rectifier and phase splitter ; triode pre-amplifier with tone control and whistle filter circuits ; pentode l.f. amplifier ; beam tetrode push-pull power amplifier. The i.f. amplifier circuit includes a variable-bandwidth stage, which allows the higher audio frequencies to be reproduced naturally and without harshness on good local station programmes. The danger of adjacent channel carrier whistles is removed by the suppression of 9Kc/s with a specially designed filter circuit. The tuning indicator makes the exact tuning of stations easy and definite. The five position tone control includes a bass cut position for certain programmes, *e.g.* talks by deep bass voices.

'Gram—The record player takes 8 unmixed 10" or 12" records of either the 78 r.p.m. or 33½ r.p.m. type, and is supplied with two pick-ups (moving coil for 78—moving iron for 33½). Changing the speed of the turntable to suit the records to be played automatically changes the circuits in the 'gram pre-amplifier stage, thus ensuring correct compensation of the different recording characteristics. The stage uses the same valve as the radio pre-amplifier. The major tone control circuits are also the same on 'gram and radio. The whistle-filter is, however, disconnected.

Also common to both 'gram and radio is the good quality high-power audio amplifier with heavy negative feedback from a separate winding on the output transformer to the main audio amplifier (a pentode).

WAVE RANGES 16—52 metres ; 190—560 metres ; 1,000—2,050 metres.

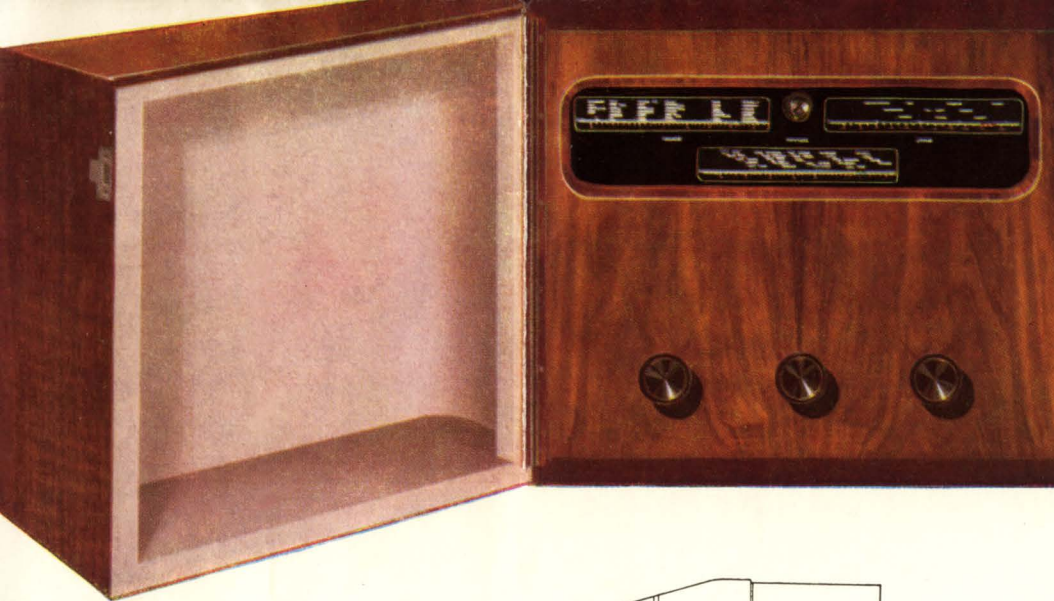
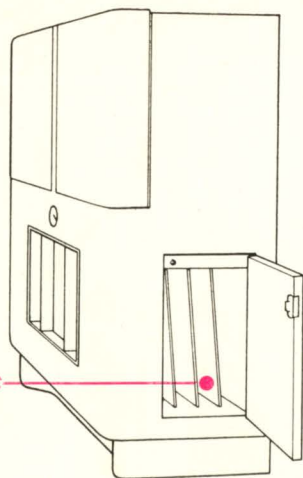
CONSUMPTION 110 watts (radio) ; 140 watts ('gram).

DIMENSIONS 39" high ; 14½" deep ; 39" wide.

your murphy dealer

MURDOCH McKILLOP
—AND COMPANY LIMITED—
107 HOPE STREET, GLASGOW, C.2.

murphy A 172 R



The record storage compartment

what shall we do for the best?

When we launched the Murphy 138 Radiogram about a year ago we felt we had done a good day's work—a good seven years' work would be more accurate. It was and remains an instrument of outstanding quality.

Soon, however, we were faced with the urgent problem of "what to do about long playing records." This is more of a problem than you may think at first sight. A record that plays for 40 minutes! Wonderful! A whole symphony on one side of a record! Marvellous! Agreed. It is a splendid and real advance for all music lovers and record enthusiasts. But two large awkward facts now force themselves on our attention. One. People already own and enjoy millions of records that need 78 r.p.m. to play them. Two. It is only a minority of 'gram listeners who often want 40 minutes continuous playing—and even they don't want it all the time. A four to five minute record will play a dance tune or a song, and for many of us that is often all we want for the moment, thank you!

For the 'gram designer the answer is clear—a modern instrument must be able to play both kinds of record. It must give first class reproduction on both kinds of record. And it must be a matter of seconds only to switch from one speed to another.

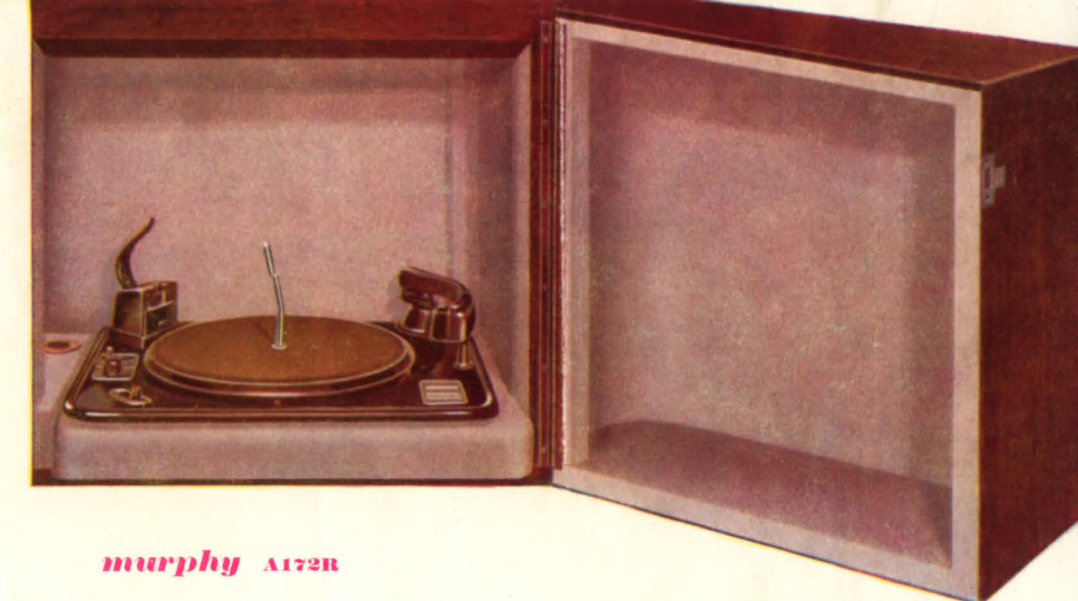
Each of these requirements raises real technical problems. We think we have overcome them in this latest and—may we say it?—finest radiogram designed and produced by us at Welwyn Garden City.

On the radio side, the A172R is an even better instrument than its predecessor. On 'standard' records (78 r.p.m.) its reproduction is as good—and that means outstanding. The new long-playing records raise reproduction problems of their own, and at present we have no definite standards by which we can compare the A172R with other instruments in this field. What we can say is that reproduction at 33½ r.p.m. is very good indeed. The A172R is an imposing instrument to look at and we feel safe in saying that your first view of it will impress you.

But your real interest is in what it sounds like. We think you will be impressed by that too.



PRICE £127 0 0 TAX PAID



murphy A172R

QUICK CHANGE

from 78 r.p.m. to 33½. This involves no more than a change of pick-up (a 4 second job), and the movement of a switch, which not only changes the motor speed, but compensates for the differences between the two types of record.

AUTO-CHANGER

which deals with up to eight 10 in. or 12 in. records.

TWIN SPEAKERS

which are necessary to handle the great power of which the machine is capable.

TOPE CONTROL

Until transmissions and records become perfect and all interference is utterly

abolished, Tone Control will remain an asset. Delicate adjustment is made possible on the A172R by means of a five position switch.

VOLUME & ON/OFF

switch is mounted externally, so that volume can be regulated without opening of doors. A discreet green light indicates when the set is on.

TUNING

Precise and low geared. But the Magic Eye sees you right anyway.

WALNUT CABINET

—simple but imposing. Provides storage for 70 records, and has separate doors for the radio and 'gram sections.