

SUMMARY OF DATA

**PURPOSE**

A general purpose receiver outfit for the reception of A.M. signals in the HF and MF bands, fitted in conjunction with Type 618 in all classes of ships.

**TYPE OF RECEPTION**

CW, MCW and Voice.

**FREQUENCY RANGE**

59-555 kHz and 1.47-30 MHz in five bands.

**BRIEF TECHNICAL DESCRIPTION**

The receiver is a conventional superheterodyne communications set, employing two r.f. stages, followed by a mixer with separate local oscillator, three i.f. stages and three audio stages. Aerial connection is made via the HF or MF transmitter giving common aerial and break-through working in each case. Power is obtained from the Power Unit, Patt. 100336, and the receiver audio output is taken back to it for connection to remote headphones or loudspeakers. Facilities are afforded for selectivity switching, (giving four bandwidths including a 200 Hz audio filter), optional A.G.C. switched b.f.o. tuning and crystal calibration checking on bands 3 and 4. The receiver may also be operated on a single crystal-controlled spot frequency by means of a plug-in crystal accessible from the front panel.



RECEIVER HF MF

**MAJOR UNITS**

Patt. No.	Description	Physical Data			
		Height	Width	Depth	Weight
100335	Receiver HF MF	14 1/16 in.	13 1/16 in.	14 1/2 in.	64 lb
100336	Power Unit (Part of Type 618)	14 7/8 in.	9 3/16 in.	22 in.	135 lb

**ELECTRICAL CHARACTERISTICS**

Selectivity	Control Position	Bandwidth
at 6 dB down	{ 8 kHz	- ± 4 kHz from 1.5 MHz to 30 MHz
	{ 3 kHz	- ± 1.5 kHz from 160 kHz to 30 MHz
	{ 1 kHz	- ± 0.5 kHz from 100 kHz to 30 MHz
	{ 200 Hz	- ± 100 Hz audio filter
I.F.	800 kHz	
Image Rejection	Below 7 MHz	- at least 80 dB
	7-15 MHz	- at least 60 dB
	Over 15 MHz	- at least 40 dB
I.F. Rejection	High impedance input	over 80 dB

Sensitivity 10-30  $\mu$ V for 20 db signal/noise ratio  
Power Output Headphones 62 mw in 100 ohms  
Loudspeakers 2 W in 600 ohms

## CONTROL CIRCUITS

When fitted with Type 618, the KH series Control Outfits will be used.

## POWER REQUIREMENTS

150 V d.c.	}	Obtained from Power Unit AP 100336
250 V d.c.		
400 V d.c.		
6.3 V a.c.		

Total consumption 75 watts approx.

## HEAT DISSIPATION

60 watts approx.

## AERIAL SYSTEM

A wire or whip aerial common to receiver and transmitter.

## HANDBOOK

BR

## ESTABLISHMENT LISTS

E1049 (Type 618 and CAS)

E1051 (A.C. Supply Outfits DWH/J/K)

## INSTALLATION SPECIFICATION