

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 31 Jan 52

AN/FRT-TYPE

AN/COMP TYPE NUMBER:

T-175/FR

RADIO TRANSMITTER



T-175/FR

Radio Transmitter T-175/FR is a medium power, a-m (voice, cw, and frequency shift keying), long range, transmitting equipment which operates in the high frequency band in fixed plant point-to-point, ground-to-air, and similar applications.

This equipment consists of rack-and-panel mounted oscillator, exciter, power amplifier, driver, and related components inclosed in a floor type steel cabinet, and operates in four-frequency channels, two of which can be preset.

It uses a rhombic or doublet type antenna system, fed by a balanced 70- to 600-ohm transmission line.

It requires 200 to 250-v of a-c power.

AN/FRT-TYPE

INSTRUCTION LITERATURE: TM 11-818

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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-175/FR	76 x 27 x 25	550
1	Fan and housing	27 x 21 x 14	64
	Transformers	15 x 12 x 21	166
	Vacuum Tubes	26 x 20 x 26	64

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Fixed plant.

INSTALLATION: Fixed ground station.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10;

AN/FRR-3, -4, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16,

-20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23;

AN/VRC-1, -4; BC-312, -342, -348, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC;

R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U,

-211/U, -213/SR, -274/FRR, -320/FRC, -389/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH;

RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -198, -193, -244, -274,

-399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCO; TCP; TCS;

AR-88 (RCA); Collins 19S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund

SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 3 - 13 in 4 bands.

Band 1: 3 - 4.5

Band 3: 6 - 9

Band 2: 4.5 - 6

Band 4: 9 - 13.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, and frequency shift keying.

POWER OUTPUT: 350 w.

POWER REQUIREMENTS: 1,400 w, 1,500 va, 200 - 250 v, 50/60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitter T-175/FR packed for domestic shipment: total weight 809 pounds, total volume 43.25 cu ft, 1 ship ton.