

Subject: Stone and Webster 113B vs 103E Installation.

February 26, 1971

Steve Howard  
Communications Consultant

On February 25th the customer indicated a desire for written information regarding the differences between the 113B and the 103E Data Set.

I. Difference in Features:

1. Operating Mode
  - a. 103E - originate or answer mode
  - b. 113B - Answer only mode
2. Alternate Voice Operation
  - a. 103E - Yes
  - b. 113B - No
3. Space Disconnect Feature
  - a. 103E - Yes
  - b. 113B - No

(Space Disconnect is when a terminal has the capability of generating a 3 second space signal while shutting off CD Lead and disconnecting. This spacing signal is received by the far end and disconnects that data set)

II. Difference in Interface:

Although it is expected that a business machine now working with a 103E station will work with a 113 type data station, there are minor differences in the interface leads.

It is suggested, therefore, that each subscriber who wishes answer-only service verify with his business machine supplier the interface compatibility with the 113 type data station.

Some specific items concerning the interface for the two stations are listed below.

1. The CN or Terminal Busy Lead is provided with the 113B type station on pin 25 of the data set. It may be disabled by optional strapping. This lead is not provided on 103E data set but the feature can be obtained by other means.
2. When converting from 103E station E/W the Terminal Busy option to a 113 type station, a strapping change is required at the Telephone Company connecting block to retain the Terminal Busy feature.
3. After ringing is tripped (assuming the CD Lead is turned ON) the 103E station may, optionally, present an ON signal on the CE lead while the 113 type station always presents an off signal on this lead.

The 113B weighs 2.25 lbs.

A 32A1 Data Mounting (for 20 113b's) weighs 50 lbs and requires 130 watts of power.

Cabinets that will be available are as follows:

- a. 30 lbs - KS 20018,14 - 20 Sets 30 x 24 x 12
- b. - KS 20757,11 - 60 Sets (future)
- c. 300 lbs - KS 20093,11 - 120 Sets 72 x 34 x 30.5

The air conditioning requirement for 20 sets can readily be estimated by multiplying the 130 watts x .057 which will yield 7.41 BTU/Min. or roughly 450 BTU/HR.

The 103E 5 cabinet arrangement (KS 20093 with 40 data sets) weighs 1033 lbs, consumes 520 watts, and requires 1780 BTU/HR.

The cabinet dementions plus floor space are as follows:

34" wide x 30.5" deep x 78" high + 20" front, 25" back for door clearance.

If I can be of any futher assistance please give me a call on .

743-3924.

*Kenneth M. Curran*  
Kenneth M. Curran-Engineer  
Customer Services Engineering

KMC/bt