

NUCLEAR CORPORATION OF AMERICA central electronic mfr's division

DENVILLE, NEW JERSEY

IONIZATION GAUGE TUBE TYPE

IONIZATION GAUGE TUBE

DESCRIPTION

The CEM-75 is a burn out proof version of the Bayard-Alpert design. It is capable of vacuum measurement in the range of 10⁻⁴ to 10⁻¹⁰ millimeters of mercury. The burn out proof filament, incorporated in the CEM-75, makes it desirable for use in systems that are repeatedly opened to air.

SPECIFICATIONS

PHYSICAL:

LENGTH (Max.)	63/4
BULB DIAMETER (Max.)	23/8
TUBULATION O.D.	3/4
FILAMENT thorium oxide coated iridia	ım ribbon

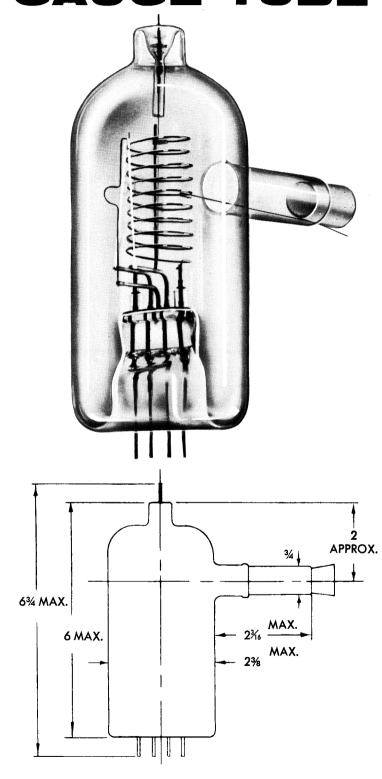
ELECTRICAL:

FILAMENT VOLTAGE	3-5 VOLTS AC	
FILAMENT CURRENT	4-6 AMPS AC	
GRID VOLTAGE	+150 VOLTS	
COLLECTOR VOLTAGE	—30 VOLTS	
GRID DEGASSING:		
VOLTAGE	7.5-8 VOLTS AC	
CURRENT	10-11 AMPS AC	
SENSITIVITY (NITROGEN)		
100 microamps per micron @ 10mg grid current or		

100 microamps per micron @ 10ma grid current or 10 microamps per micron per ma grid current

SPECIAL GAUGES

Our engineering staff is available to design and customproduce specialized ionization gauges to meet your particular operating requirements.







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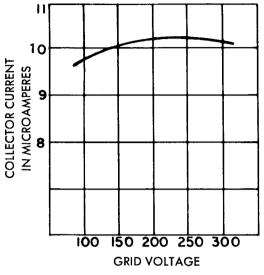


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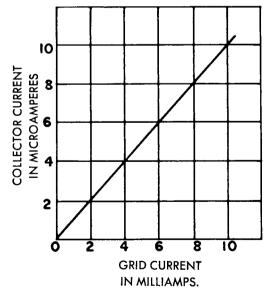
CEM-75
The CSM-75 is available with three different types of tubulation that are designated by the letter following the gauge type.

CEM-75N (NONEX GLASS) CEM-75P (PYREX GLASS) CEM-75K (KOVAR TUBING)

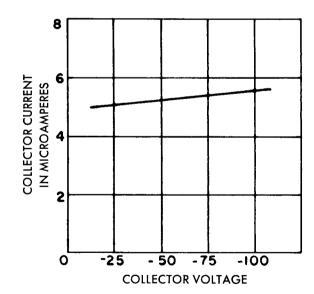
The standard tubulation size is $^{3}\!\!4$ inches in diameter but price and delivery on special sizes will be quoted on request.



PRESSURE = 1×10^{-4} mm Hg COLLECTOR VOLTAGE = -30 V. GRID CURRENT = 10 ma



 $\begin{array}{l} {\rm PRESSURE} = 1 \times 10^{-4} \ {\rm mm \ Hg} \\ {\rm COLLECTOR \ VOLTAGE} = -30 \ {\rm V}. \\ {\rm GRID \ VOLTAGE} = +150 \ {\rm V}. \end{array}$



PRESSURE = 5×10^{-5} mm Hg GRID VOLTAGE = 150 V. GRID CURRENT = 10 ma

