

SPECIFICATION

1. Scope

This specification covers the Datron transducer for cleaning under the atmosphere of $25 \pm 3^\circ\text{C}$ 40 ~ 70%RH.

2. Type

Trans-C58*20030(3)30

Trans-C	58 & 200	30	(3)	30
Transducer	Frequency	Ceramic dia.	PZT spec.	Emitting dia.

3. Dimensions

As per the drawing : Height = 35.5m/m Emitting Diameter = 30m/m

4. Electrical Specification (By Piece)

- a. Resonant Frequency $F_r = 58*200 \text{ kHz} \pm 0.5\text{kHz}$
- b. Resonant Resistance $Z_r < 20\Omega$
- c. Capacitance $CAPA = 4.7 \pm 20\% \text{ nF}$
- d. tgD (% KHz) < 0.5
- e. Q_m > 500



5. Mechanical Characteristics (Periodical in Laboratory)

- a. Acoustic Power = $5.6 \pm 0.5 \text{ Wcm}^{-2}$ -- By Ohmico Ultrasonic Power Meter UMP- DT-1AV
- b. Amplitude : $> 2.6\mu\text{m}$ for 58Khz -- Peak-to-peak in sinusoidal
 $> 0.8\mu\text{m}$ for 200Khz -- Peak-to-peak in sinusoidal

6. Impedance VS Frequency curve of Trans-C58*20030(3)30

