

## ISM-HN-03 --- Ultrasonic Long Horn with Resonant Radiating Disks



- High Output Power
- Provides cylindrical ultrasonic wave from lateral surface
- Unlimited Number of Units with Disks
- Unlimited Lateral Output Surface
- Matches Transducer to Liquid Load
- Ideal for Sonochemical and Sonomechanical Reactors
- Long Lifespan

### GENERAL SPECIFICATIONS

Maximum Output Power – 4kW\*

Maximum Gain Factor – 15

Maximum Output Diameter – 70 mm

Operating Frequency – 18 - 40 kHz

Possible Materials – Aluminum, Steel or Titanium Alloys

Resonant Length – unlimited number of full wavelengths (with dispersion taken into account)

\* - determined by direct calorimetry of water under acoustic cavitation.

Functioning of this horn is shown in the corresponding videos for [water](#) and [glycerin](#).

Further theoretical details about the closely related spool horn can be found in our [manuscript](#) and on this [page](#).