

## CARNATIC FLUTE – THE YARL FLUTE



The Carnatic Flute is one of the oldest Indian musical instruments, and Lord Krishna is often portrayed as a young boy playing a flute. If you are a flautist or thinking of taking up the flute, you are truly blessed by Lord Krishna. If you are searching for a high quality, perfectly tuned flute, you have come to the correct place.

The conventional Carnatic Flute is made of Bamboo and has eight finger holes and one blow hole. As with Bamboo flutes, it is very difficult to get a perfectly tuned flute and even rarer to get two identically tuned flutes. The main reason for this scarcity is the variation in the inner diameter of Bamboo and the variation in the positioning of finger holes when they make the Bamboo flute. Selecting a perfectly tuned Bamboo flute is an extremely tedious task and most flautists would agree that if you sample 100 Bamboo flutes, you may be in luck to find 1 or 2 perfectly tuned flutes.

With poorly tuned Bamboo flutes, the flautist has to rotate the flute, adjust the blowing or adjust the finger hole opening to compensate for the inaccurate pitch of each note. For a novice, this would be frustrating and make it difficult to master the art of playing the flute. This could lead them to give up playing the flute or play the wrong pitch of those notes and annoy the listeners! Eventually they have to give up playing the flute or start searching for a better flute.

After many years of experimenting with various sizes and types of materials, a synthetic material Polymethyl methacrylate (PMMA), also known as acrylic or acrylic glass was chosen to make Carnatic flutes. Acrylic flutes produce rich tonal quality comparable to high quality Bamboo flutes. Yarl Technologies introduces an acrylic Carnatic flute to the South Indian music community.



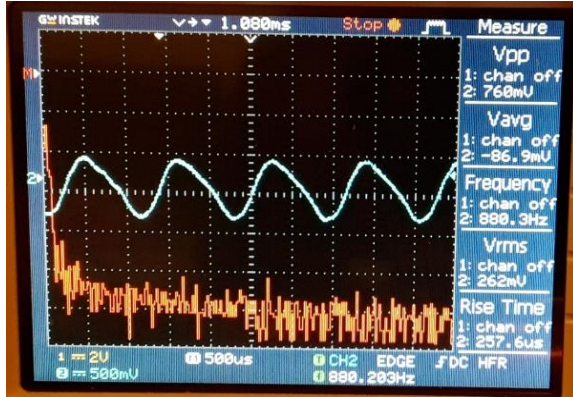
Yarl Technologies manufacture a range of special acrylic tube sizes with Inner diameter and wall thickness designed to suite the pitch of the flute. The Yarl flute is made of very high quality light-weight acrylic material which produces rich tones and semitones that are very pleasing to the ears. At present, Yarl flutes are made for pitches from 1 Kattai to 5-1/2 Kattai (for 1 Kattai flute the pitch of 'Sa' is tuned to C5: 523.25Hz; for 1-1/2 Kattai flute the pitch of 'Sa' is tuned to C5#: 554.36Hz and so on).



Each finger hole distance from the blow hole is calculated to suite the typical fingering technique used for playing the Carnatic flute. Precise positioning of finger-holes are achieved with laser cut finger holes that are a perfect fit to each finger, enabling full control of the openings.

The specially crafted blow-holes enable even the novice flautist to produce sharp, crisp and clear tones across two and a half octave ranges. Flautists will also find it extremely easy to modulate the blowing. With the Yarl flute, each note is perfectly tuned and hence the flautist can play without the need for continual adjustment.





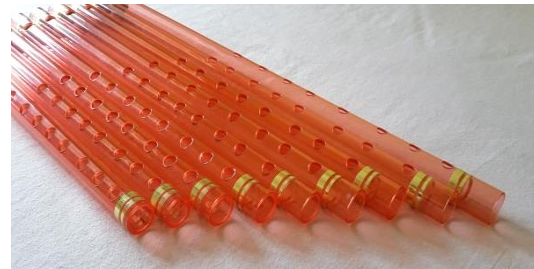
Wave shape and frequency spectrum of 4 Kattai note 'Ga' – A5: 880Hz.

Each note is tested for accuracy of frequency and wave shape to ensure timbre quality using a spectrum analyser. Its light-weight design enables the flautist to play for long hours. Most importantly, the melodious tone of this Yarl Carnatic flute makes it hard for the flautist to stop playing!

Have you ever wondered why you have not heard more than two flautists play together? This may be because it is very difficult to get two identical Bamboo flutes. With perfectly tuned identical Yarl flutes, this would now be possible!



1 Kattai to 5-1/2 Kattai Yarl Flutes



Laser cut precise position of finger-holes



Light-weight (just 50g to 70g) acrylic flutes

Please contact Yarl Technologies by email ([yarltechnologies@gmail.com](mailto:yarltechnologies@gmail.com)) to purchase your Carnatic Flutes.

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