

Double Horn in F and Bb / F-Horn : Tuning in Just Intonation

valves 1, 2, 3* (custom-built) are tuned to rational proportions (2/15, 1/15, 4/15) of the respective open horn's length producing, in various combinations, two Utonal Series of fundamental pitches with wavelengths in the proportions 15 : 16 : 17 : 18 : 19 : 20 : 21 : 22 with the two horns tuned a just perfect fourth (3:4) apart

* Alternately, the normal 3rd valve may be used, tuned to the proportion 3/15, so that the valve combination 1+2 and 3 are synonymous. In this case, the undertone tuning "22" will not be available, and the fingerings indicated for undertones 19 - 22 apply instead to 18 - 21

notated AT SOUNDING PITCH using the Extended Helmholtz-Ellis JI Pitch Notation accidentals designed by Marc Sabat and Wolfgang von Schweinitz, 2004

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