

---

Subject: driver with a  $f_s/Q_{es} > 120$

Posted by [Zeno](#) on Fri, 10 May 2002 12:35:31 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

hi wayne, can you let me know which eminence driver has the closest spec compare to the following and also can you tell me which 15" eminence driver with a  $f_s/Q_{es} > 120$  Visaton BGS 40 8 OHM Art. No. 3040 40 cm (15") woofer with hard cone suspension Technical Data: Nominal power handling 200 Watt Peak power handling 300 Watt Nominal impedance 8 Ohm Frequency response fc- 4000 Hz Mean sound pressure (nominal) 98 dB (1 W/1 m) Maximum cone displacement 16 mm Resonance frequency 38 Hz Magnetic induction 1,1 Tesla Magnetic flux 1800

diameter 35,9 cm Net weight 5,4 kg D.C. resistance  $R_{dc}$  6,5 Ohm Mechanical Q factor  $Q_{ms}$  1,3 Electrical Q factor  $Q_{es}$  0,4 Total Q factor  $Q_{ts}$  0,31 Equivalent volume  $V_{as}$  263 l Effective

of the voice coil 1,55 mH thank you

---

Subject: Re: driver with a  $f_s/Q_{es} > 120$

Posted by [Adam](#) on Fri, 10 May 2002 12:48:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

The Omega Pro 15" is pretty close to that woofer.  $f_s$  39 qts .35  $v_{as}$  196 litres It has an EBP of 109. Here are a couple others. Kappa Pro LF 15" - EBP 117 Kappa 15" - EBP 115 Magnum 15HO - EBP 117 Those are their 15" drivers with the higher EBP's. Adam

---

Subject: Re: driver with a  $f_s/Q_{es} > 120$

Posted by [freddy](#) on Sat, 11 May 2002 13:46:07 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi Zeno look at Madisound's Eminence 151311 @\$79US pretty close to your Visaton  $f_s/Q_{es} = 119.375$   $f_s = 38.2$ ,  $Q_{es} = 0.32$ ,  $Q_{ms} = 7.73$ ,  $v_{as} = 299$  l,  $\alpha = 5$ ,  $x_{max} = 5.5$  mm,  $m_{ms} = 60.1$  g,  $BL = 14.9$  Le isn't specified but I'd guess around 1 mH - goes out > 3 KHz on axis as direct radiator - am looking at it for inexpensive Karlson driver Freddy

---

Subject: my intention is to build the visaton MB 115/B bass horn

Posted by [Zeno](#) on Sat, 11 May 2002 16:26:52 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi adam & freddy, Many thanks for the info and advice. I intend to build the visaton MB 115/b bass horn with eminence driver, the visaton bqs 40 driver is rather difficult to obtain here in my country, I wrote to them but they did not reply, in fact it would be too expensive to get them in from Germany, for the eminence they have the distributor here and I can get them at good price, beside I like the good old American sound. I really have no experience with all this stuff but very keen to learn and experience with speaker especially horn speaker, from what I see I think the Kappa 15 is close to the spec of the visaton driver, I may be wrong. I would really appreciate your help to realize my intention. Zeno

---

Subject: Re: my intention is to build the visaton MB 115/B bass horn

Posted by [Adam](#) on Sat, 11 May 2002 21:26:22 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

My only concern would be excursion... The Kappa 15 is a hurting unit in that department. You might want to consider JBL drivers as well... Much more expensive, but you can probably find something that will match the driver you want in all categories, including xmax. Adam

---

Subject: Adam, please assist

Posted by [Zeno](#) on Sun, 12 May 2002 13:40:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

hi adam, thanks for your input. Can you please let me know which is the Eminence driver is best suit

and come close for my project, the JBL are far too expensive here.thanks Zeno G

---

Subject: Re: my intention is to build the visaton MB 115/B bass horn

Posted by [freddy](#) on Sun, 12 May 2002 13:47:44 GMT

[View Forum Message](#) <> [Reply to Message](#)

Zenoproably the light-cone Kappa Pro 15 with ~3mm xmax would do OK for the Viston horn - you're probably going to get ~300-350Hz HF corner then go into a slow slope region - in US, cast-frame "Pro" versions of Eminence cost about the same as stamped-frame models - mainly paying for magnetbest wishes!Freddy

---

Subject: wayne can i have your opinion on driver with a fs/Qes>120

Posted by [Zeno](#) on Mon, 13 May 2002 13:07:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

for visaton MB 115 bass horn, which is the closest 15" eminence driver .thanks

---

Subject: Sorry Gabriel, but I know nothing about that horn.

Posted by [Wayne Parham](#) on Mon, 13 May 2002 13:19:01 GMT

[View Forum Message](#) <> [Reply to Message](#)

You should really model it with something like Hornresp to know what you're dealing with.