



Hybrid-cooling technology

High current, compact Vacuum Capacitors

Combining the most useful features of Comet's Vacuum Capacitors, along with a new special cooling technology, allows the use of high current in a compact size Vacuum Capacitor.

Comet hybrid-cooling technology has been developed as an extension of the well-known Hexa-Con product range. The first hybrid-cooled, small size Vacuum Capacitor series enables the use of higher power while keeping the same footprint, resulting in lower cost of ownership. When comparing diameter versus power density, the Hexa-Con series with hybrid-cooling technology is best in class.

The efficient cooling technology can be adopted to any series of Comet Vacuum Capacitors and further tailored to your needs. Thanks to the use of Comet Ultra Life drive system, trouble free operation and long lifetime is ensured. The new technology can also be combined with Comet integrated drive systems.

Features

- Hybrid-cooling technology
- High power design
- 40% higher current than standard product
- Small form factor
- Ultra Life drive system

Benefits

- Long lifetime
- Low torque
- More than 40% power increase
- Efficient use of matchbox space



Hexa-Con with hybrid-cooling technology

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Led by experience. Driven by curiosity.

Technical features

Capacitance C_{max} (nominal)	250 pF
Capacitance C_{min} (nominal)	7 pF
Voltage (Peak Test U_{pt} / Peak Working U_{pw})	25 kV/15 kV
Max. Current I_{max} at 13.56 MHz with Water Cooling	225 A _{RMS} 0.5 l/min
Self Inductance	≤ 5 nH
Torque	≤ 0.25 Nm



Technical features for the sample of a Hexa-Con CVHE-250BW/25-AAAN-AS

Typical application areas

- Semiconductor
- Flat Panel Display

Customized to your requirements

Comet has developed new Vacuum Capacitors utilizing hybrid-cooling technology for high current applications. Comet's Hexa-Con Vacuum Capacitor is the first product adopting this technology. Talk to us about your specific requirements.

- Hybrid-cooling technology can be applied to all types of Hexa-Con, Tetra-Con and Maxi-Con series on demand
- Option: Integrated Drive solutions



We customize for unique applications. For more information, contact your local Comet experts.

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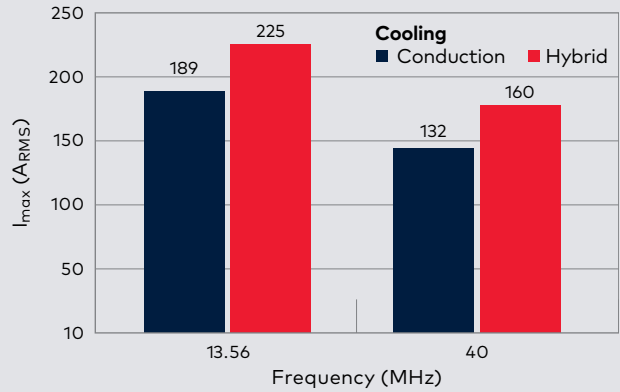
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Hsinchu

United States

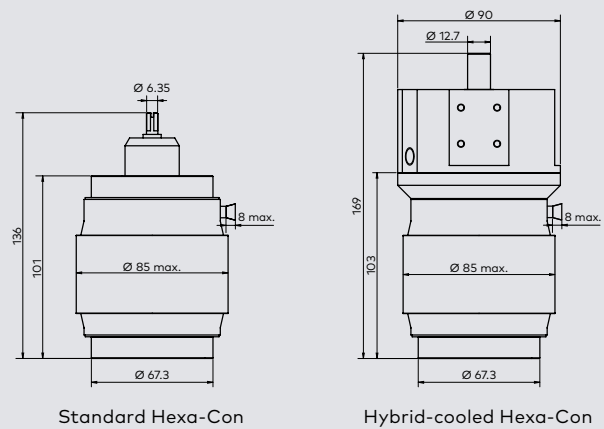
Comet Technologies USA, Inc.
San Jose/CA

pct.comet.tech | pct@comet.tech

Comparison of cooling types (Hexa-Con series)

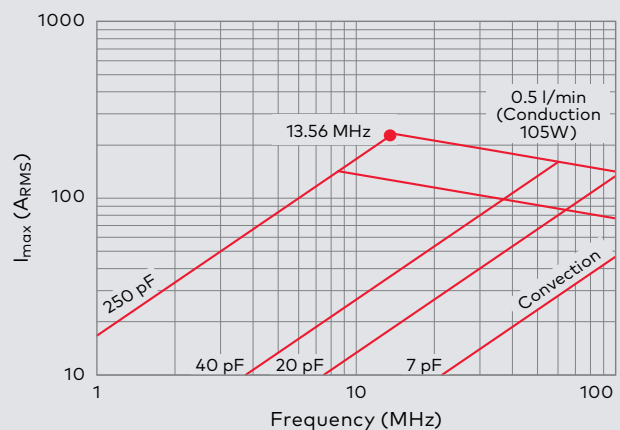


Comparison of dimensions



Current vs. frequency and capacitance

I_{max} for 0.5l/min water cooling,
max. temp. of 40° C



Technical information can be found in our Service Bulletins:

pct.comet.tech/service-bulletins