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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

c•met
pct

Led by experience. Driven by curiosity.

Technical features

Hexa-Con CVHE-250BW/25-AAAN-AS

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

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.

Switzerland (Head Office)

Comet AG
Flamatt

China

Comet Mechanical Equipment
(Shanghai) Co. Ltd., Shanghai

Germany

Comet Technologies Germany
GmbH, Aachen

Japan

Comet Technologies Japan KK
Yokohama

Korea

Comet Technologies
Korea Co., Ltd., Suwon-si

Malaysia

Comet Technologies
Malaysia Sdn Bhd, Penang

Taiwan

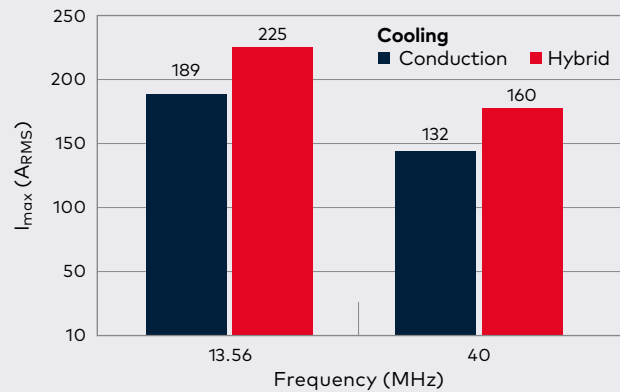
Comet Solutions Taiwan Ltd.
Hsinchu

United States

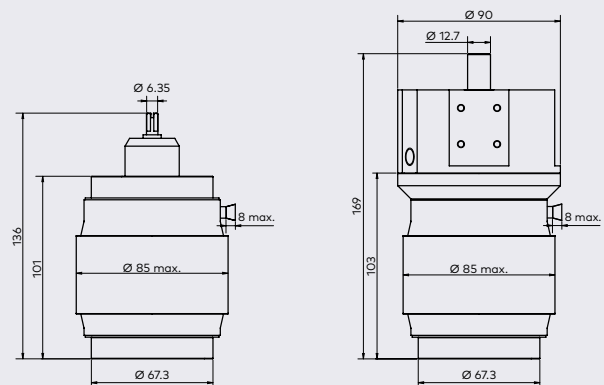
Comet Technologies USA, Inc.
San Jose/CA

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Comparison of cooling types (Hexa-Con series)



Comparison of dimensions

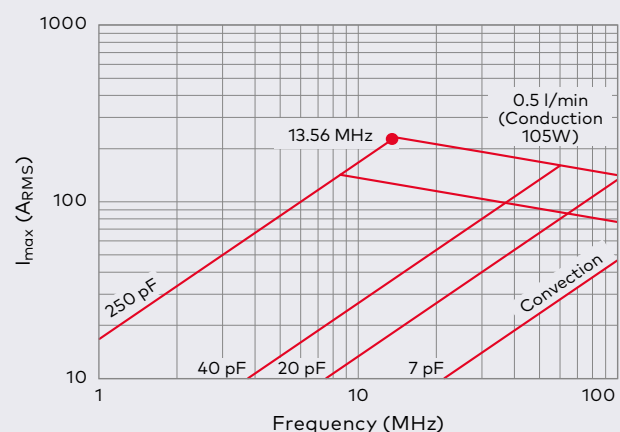


Standard Hexa-Con

Hybrid-cooled Hexa-Con

Current vs. frequency and capacitance

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



Technical information can be found in our Service Bulletins:

pct.comet.tech/service-bulletins

Comet products may be protected by patents in the United States and other countries. For detailed information please consult our website
pct.comet.tech/patents