

Optimized Drive Cooling Solutions for Complex Systems

AC890 Common DC Bus Drives



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Parker Hannifin

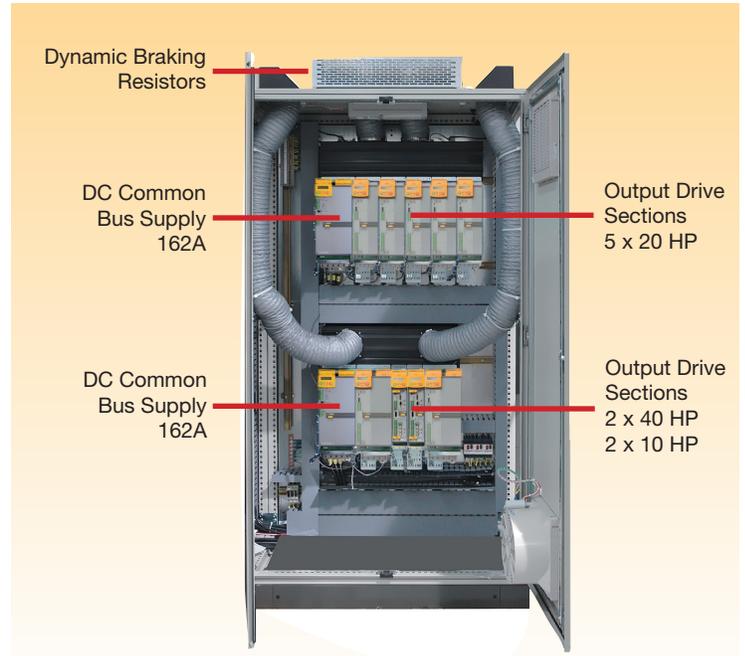
Providing optimized drive cooling solutions for complex systems

OEM's and system integrators are seeking ways to more cost effectively deliver solutions to their customers. The ability to more densely populate drive system enclosures while cost effectively managing more heat in less space is a critical element of achieving this goal. An AC890 system employing these simple and cost-effective cooling solutions can make the system manufacturer more competitive and more profitable.

Most system inverters at 50HP and larger are available with roof vent cooling kits to direct the hot air exhausted from the power stack directly out of the enclosure. This prevents heating the enclosure interior, potentially affecting other heat sensitive equipment such as PLCs thereby requiring additional, costly, enclosure cooling fans.

However, most systems inverters at lower power ratings, in particular power dense bookshelf mount types, exhaust their hot air into the enclosure. These designs can result in upward of 20 drives rated up to 10HP each (or 200HP) in a relatively small enclosure.

Parker's AC890 bookshelf design frames B through D can be fitted with an external exhaust duct and fan kit that ducts the hot air from the power stacks directly out of the enclosure. This eliminates or reduces the need for additional, costly, enclosure cooling fans. It also allows for even more power dense installation of two rows of drives, one over the other with no concern regarding heat from the lower row affecting the upper row.



Bill of materials example for AC890 cooling kit

Item	Qty	Part Number	Description
1	1	8905/DUCTKIT/190	Duct Kit, including one fan, 1 meter length of duct.
2	1	8905/DUCTFAN/190	Duct Fan - if additional is required
3	1	HA471399U001	Installation manual - available for free download

For more information on custom systems solutions, please visit solutions.parker.com/systems

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