



Silence Triumphs On Blue Jacket 40 With Emerald Split-Gas A/C System

Compressor Noise Disturbs Tranquility In Cabins

The Blue Jacket 40 is a modern interpretation of a performance cruiser and features a three-cabin arrangement, with an option for a two-cabin layout, with the amenities and build quality expected of a luxury sailing yacht.



40-ft. cruising sailboat by Blue Jacket Yachts

During the design phase, eliminating noise of any kind was always a priority. One particularly annoying feature of air-conditioning systems is compressor noise. However, today's new split systems mean the compressor can be located separate from the evaporator, and the compressor can also be insulated for sound if needed.

"Reducing noise was integral in the design," said Bill Bolin, vice president of sales and marketing for Blue Jacket Yachts. "It's really a matter of comfort and getting the sounds out of the living compartment."

Emerald Series' Quiet Efficiency a Cool Way to Go

"The Emerald Series was selected because of the small footprint and compact size of the equipment and the efficiency of the R-410 refrigerant," said Pat Peterson, Managing

Director of Peterson Marine, a Dometic Marine dealer. "These characteristics worked perfectly with the way we wanted to air condition this particular design."



Bill Bolin, VP of Sales & Marketing for Blue Jacket Yachts

Operating with R-410A environmentally safe green gas, Dometic's Emerald Series is a range of direct-expansion split HVAC systems which provides increased efficiency by using fewer amps per capacity and offers a refined, quieter system that maximizes performance and durability.

"The split system, isolating the compressor noise from the living compartments, was a perfect solution on the Blue Jacket 40 as a luxury performance cruiser," Bolin said. "Peterson Marine, the local agent/installer for Dometic, has been a favored vendor of ours for some time."

Small Evaporating Unit's Dimensions a Perfect Fit

The Blue Jacket 40 contains a single 16,000-BTU Emerald condensing unit connected to two TurboVap evaporating units.



TurboVap series evaporating unit

"Dometic Marine has engineered TXVs [Thermal Expansion Valves] on these new TurboVap evaporators," Peterson said. "This allows the best balance of refrigerant, making a single compressor, two evaporator system the most efficient."

"We are confident that the work completed on this project and lay-out will provide the platform for us to work on future Blue Jacket 40 models which are ordered with the air-conditioning option," Peterson said.



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