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engineering a better life

ebm-papst Inc. · 100 Hyde Road · Farmington, CT 06034 · USA

Flexibility that's out of this world: *The resilient AxiACi Series*
Houston, we have an innovation!



Introducing ebm-papst's AxiACi Series 92mm and 120mm axial fans!

For the diverse requirements of refrigeration technology, industrial ventilation, and telecom applications.

Until a few years ago, AC asynchronous and shaded-pole motors were the standard in refrigeration technology. Both options are robust and durable; unfortunately, they both also generate excess heat that needs to be dissipated and have a low efficiency level of only about 30%. As in many industries, energy and cost savings initiatives have driven the demand for more efficient cooling solutions.

With that in mind, we developed our new AxiACi series. This series features our highly efficient GreenTech EC motor which runs extremely smoothly and quietly with low vibration. Additional advantages, especially for refrigeration customers, include operating temperatures that go down to a frigid -40°C (-40°F) including at start-up; resistance to salt spray, water jets, and dust (IP65); ATEX certification DIN EN 60079-7 (Group IIA Class T4); and compatibility with natural refrigerants including ammonia, propane, ethanol cyclohexane, and butane, just to name a few.

These benefits, combined with an impressive service life (65,000 hours) that is up to twice that of standard AC models, a global voltage range of 90-264VAC (50/60Hz), and maintenance-free operation, make the AxiACi series an ideal replacement for outdated and inefficient AC solutions. And, since it's designed to withstand the rigors of extreme environments while still delivering high levels of flexibility and efficiency, the AxiACi series also excels in industrial ventilation, telecom, and many other demanding applications.

AxiACi92 and AxiACi120 at a glance:

- Virtually silent operation and minimal energy consumption thanks to:
 - A 3-phase multi-pole motor with very low floor level and low peaks in the acceleration amplitudes which reduces structure-borne noise
 - Guide blades that are exactly matched to the dynamically balanced fan impeller, ensuring less turbulence and a uniformly directed airflow
 - An optimized blade design with winglets
- Global voltage range of 90-264VAC (50/60Hz)
- Broad temperature range of -40° to +75°C (-40° to +167°F)
- Unbeatably compact and lightweight
- Robust, durable, and maintenance-free
- Compatible with natural refrigerants
 - Ammonia, propane, ethanol cyclohexene, butane, and others
- Universally approved
 - All models: UL507, CSA 22.3, DIN EN 60335-1, CCC, EAC, CE
 - Select models: IP65, DIN EN 60335-2-89, DIN EN 60079-7 Group IIA Class T4, salt spray resistance

Target markets and applications

- Commercial refrigeration
- Cabinet cooling
- Industrial
- Medical technology
- Telecommunications