

TowerPak™

Cooling Tower Controller

Designed as a cost effective solution for cooling tower control, TowerPak controllers are loaded with features that also make it well suited for other outdoor HVACR applications such as rooftop air handling units, air cooled chillers, condenser fans, pumps and compressors. TowerPak offers the latest in microprocessor and IGBT Variable Frequency Drive (VFD) technology in a single packaged controller. With world-class quality design and manufacture, competitive pricing, and uncompromising performance, TowerPak controllers are among the most versatile and reliable cooling tower control packages available on the market today.

TowerPak is designed specifically for cooling tower applications, particularly where building management systems do not exist. The drive's control features and environmental characteristics, however, make it an excellent choice for a wide variety of outdoor HVACR applications. The base model TowerPak includes electronic 3-contactor bypass control for use with several Control Techniques VFDs. The latest IGBT technology reduces EMI/RFI emissions and provides a 50% reduction in dv/dt allowing for longer motor leads. IGBT also eliminates the need for costly output filters and reactors while providing reliable operation in wet or humid ambient conditions. For year-round operation in extreme outdoor environments, all TowerPak drive products are rated for continuous duty at 40°C ambient temperature (derating available for higher ambient temperature).

TowerPak is built in a NEMA 3R enclosure with thermostatically controlled space heaters, ventilation fans and an optional sun shield. Complete control is available with optional water temperature controller, basin (sump) heater contactor, fluid cooler spray pump starter, de-icing control and damper control. Models are available at 208-230/480 V in power sizes to 200 HP in VFD with disconnect configurations.



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Options

- Basin (Sump) Heater Contactor
- Fluid Cooler Spray Pump Starter
- Basin (Sump) Temperature Controller
- Damper Control
- De-Icing Control

Ratings

- 208 V - 1-50 HP
- 230 V - 1-60 HP
- 480 V - 1-200 HP

Simple to install

Designed for outdoor mounting, TowerPak offers precise control in cooling tower applications in any environment. Connect three-phase power into TowerPak and three-phase power out to the cooling tower motor.

FIELD PROVEN FOR MAXIMUM RELIABILITY

Tested and proven in the harshest operating conditions by Control Technique’s electrical, mechanical and software engineering groups, these powerful drives get machines up and running quickly and consistently in any environment. With dynamic performance, PLC functionality, premium

functionalities and plug-in options, TowerPak delivers more than the average general purpose drive, providing lower cost solutions and better productivity in motor control applications.

SPECIFICATIONS

Environment

- IP20 “Open Chassis”
- NEMA 3R rating
- Ambient temperature -10 to +40°C @ 3kHz
- Humidity 95% maximum (non-condensing)
- Electromagnetic Emissions complies with EN61800-3 (second environment) as standard. Complies with EN61000-6-3 (residential) and EN61000-6-4 (industrial) generic standards

Protection

- Undervoltage, Supply and DC Link overvoltage, Phase loss, Drive overload, Instantaneous overcurrent, Short circuit, Ground fault, Drive thermal, Watchdog, and
- Motor thermal.

Control Techniques drives are backed by a 2-year warranty.

**Derating available for higher ambient temperature.*

