DRIVEN BY POSSIBILITY™

CASE STUDY:

MEASURABLE ENERGY SAVINGS

WITH POLY CHAIN® GT™ CARBON™

Healthcare facilities require extensive HVAC systems to maintain healthy and comfortable environments. One U.S. hospital was struggling with high energy bills before switching to Gates.

End Market: Healthcare
Application: Air handling units
Original Parts: 2-BX43 v-belt drives
Solution: 8MGT-1120-12 Poly Chain GT Carbon drives

PROBLEM

- The hospital had 49 air handling units with competitive v-belt drives.
- The existing drives were operating below 90% efficiency, causing energy loss and high expenses. The reduced efficiency also resulted in less-than-ideal airflow, which led to staff and patient wellness concerns.
- In addition to minimizing energy costs, the hospital was looking for a solution with a longer lifespan to reduce downtime and maintenance.

SOLUTION

- Gates converted the competitive v-belt drives to Poly Chain GT Carbon, a premium synchronous belt, effectively increasing their systems' belt drive operating efficiency to 99%.
- Once the new synchronous belt drives were installed, the hospital saw over $64,000 in energy savings alone!
- The hospital also realized significant maintenance savings - Poly Chain GT Carbon doesn't require the periodic retensioning needed by v-belts, and needs to be replaced less frequently.
- The more efficient air handling units were better able to meet the strict air quality criteria required by healthcare facilities, allowing the hospital to better ensure staff and patient safety standards.

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PRODUCT OVERVIEW

- Durable polyurethane construction resists chemicals, oil, pollutants, and abrasion
- Sturdy carbon tensile cord lends high power density for robust load-carrying capacity in a compact package, while reducing stretch
- Operates at 99% efficiency for the life of the drive
- No retensioning means most maintenance costs and safety risks are eliminated.

SAVINGS

- Over $64,000 in confirmed energy savings
- Maintenance labor and expense decreased, with no need for retensioning and longer belt lifespan

WANT TO SEE HOW MUCH YOU COULD SAVE?

Try the Gates energy savings calculator!

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