

Studies in success



VSD delivers energy savings for the Exchange Hotel



The Exchange Hotel in Taree is a unique heritage hotel well known by the locals for its unique beer selection, quality meals and warm atmosphere. The hotel includes a pub, restaurant and bottle shop, which operate seven days a week, and also has a function centre, which operates on weekends only. The refrigeration system is split across the site. The hotel and pub operate on one system, while the bottle shop and function rooms operate on another.

The Challenge

The system servicing the bottle shop and function rooms needed to be upgraded due to ongoing service issues and poor temperature control of the beer and food systems. The existing belt drive compressors were noisy, oversized and continually cutting in and out. They could not operate efficiently at part load, which occurred Monday to Friday, when the function room was not in operation. Maintaining the old systems was costing an average of \$300 per month with refrigerant and oil service problems.

The Solution

Contractor R&L Refrigeration and Air Conditioning is a long established customer of Heatcraft Australia. They heard about the benefits of Variable Speed Drives and approached the company for a solution. Account Managers, John Mostyn and Rob Knight worked with the contractor to deliver a customised solution based on a Kirby Commander Air Cooled Condensing Unit with VSD. The Kirby Commander Air Cooled Condensing Units offer high performance and efficiency as well as reduced noise levels thanks to the Dorin H series compressors.

At a glance...

The Business Need:

A quality, reliable refrigeration system to alleviate high service costs and achieve stable temperature control.

The Solution:

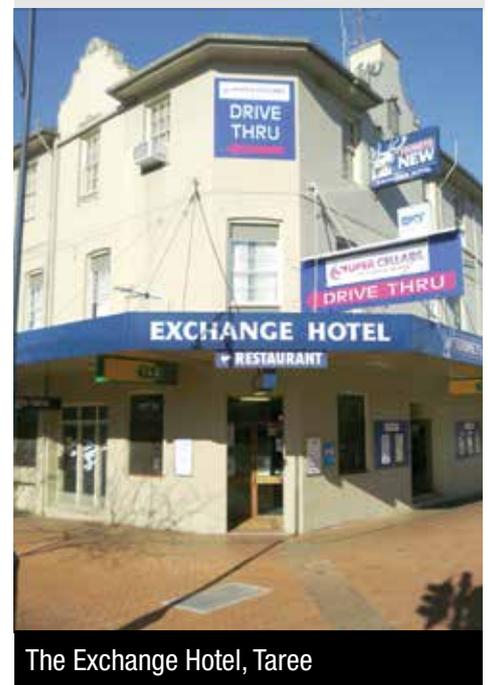
Heatcraft provided a customised solution based on a Kirby Commander Air Cooled Condensing Unit with VSD. The Kirby Commander Air Cooled Condensing Units offer high performance and efficiency as well as reduced noise levels thanks to the Dorin H series compressors.

Why Heatcraft?

Heatcraft is your refrigeration equipment specialist with trusted Kirby equipment, that is feature packed, making installation fast, easy and economic.

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The use of Dorin H Series Compressors contributed to reduced noise levels on site.



VSD unit maintains temperatures when operating at part load

The refrigeration system was configured to control;

- 1 x 4 door under bench cabinet and refrigerated display case
- 1 x 4 glass door bottle cabinet
- 2 x 2 door glass chillers
- 1 x 6 pull glycol beer system
- 1 x large keg/bottle coolroom
- 1 x large packaged beer room

The 6 pull glycol beer system, 4 door under bench cabinet, refrigerated display case and the 2 glass chillers are only operational during scheduled functions.

The 4 glass door cabinet, and 2 cool rooms operate 24/7 and represent approximately 50% of the overall load. The variable envelope / capacity range was 65Hz 18.9kw down to 30Hz 9.3kw.

Publican, Gary Rollings has noticed positive changes, since the installation of the new units. The new system with VSD is quieter than the previous system and

the addition of the VSD has resulted in a more stable refrigeration system, able to maintain temperatures when operating at part load, during week days or full load, during the weekend.

In addition to this, energy savings of \$400 - \$600 per month are also being realised. *"It was a nice surprise" commented Gary. "Our primary concern was achieving temperature stability, but to come away with a lower power bill has been a real bonus."* *"As an Australian Hotels Association Delegate for the Hastings and Manning area, I would be happy to speak with other publicans about the benefits of the system we have had installed".*

Contractor R&L Refrigeration has also been pleased with the operation of the units and after sales support provided by Heatcraft Australia, commenting that the system was *"much more efficient"* than the old system and that they have had no service calls since installation.

If you would like more information about upgrading your current refrigeration system, or would like more information on the benefits of Variable Speed Drives, please contact your Heatcraft Account Manager.

Products supplied by Heatcraft Australia included;

- Kirby Commander Air Cooled Condensing Unit PCS258LMHA1-4 CMDR DORIN H 10HP LMH 1PH FA
- Danfoss 134F7676 VSD DANFOSS 11 KW IP55

For more information on R&L Refrigeration & Air Conditioning phone (02) 6551 0247

To contact the Exchange Hotel, Taree phone (02) 6552 1160 or email exchange@bigpond.net.au



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