



studies in success

Out with the old. In with the new - quickly!



Located in the beautiful wine district of the Hunter Valley NSW, Cypress Lakes is a luxury resort with a championship 6,487 metre par 72 18-hole golf course and modern villa accommodation.

When the existing chiller at the Oaks Cypress Lakes Resort Hunter Valley failed, maintenance contractor, Clements Refrigeration & Air Conditioning had a small window to work in – both in terms of footprint and timeframe.

The installation and client called for a reliable, energy efficient chiller, complete with partial heat recovery that would fit within the existing plant room and operate quietly, due to the close proximity to resort accommodation.

Why Lennox?

Clements Refrigeration & Air Conditioning met the client's brief and within the tight 12 hour timeframe replaced the existing unit

with a Lennox Neosys NAC380SM complete with Partial Heat Reclaim for domestic hot water pre-heat.

Clements had previously installed Lennox Chillers on other projects and was confident in the operational capability of the unit. Lennox Neosys™ chillers deliver high efficiency at full and partial load by the use of multi-scroll compressors and specific algorithms designed to reduce energy costs.

The inclusion of eDrive™ variable speed pump technology automatically reduces the pump speed when operating at a reduced load.

At a glance...

The Business Need:

A quiet, reliable chiller that could deliver a complete solution - with heat reclaim capabilities in one small footprint. The installation needed to be completed within 12 hours.

The Solution:

Clements Refrigeration & Air Conditioning met the brief with a Lennox Neosys NAC380SM complete with Partial Heat Reclaim for domestic hot water pre-heat.

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Lennox 387.3kW Neosys Chiller NAC380SM complete with Partial Heat Recovery..



With respect to noise, Lennox Neosys™ chillers are fitted with the patented Active Acoustic Attenuation System™ which enables the installer to program/set noise level by time slot and then choose the performance or required noise level mode. The Active Acoustic Attenuation System™ automatically adjusts the airflow from the Owllet™ variable speed fans according to the building load while complying with the permitted sound level. It also enables floating condensing pressure management.

Optional, factory fitted heat reclaim on the Lennox Chiller further simplified installation, saving the client and installer hours of labour time on site.

Advanced electronics allowed easy integration into existing Bacnet Control system.

Service Support Confidence

Having met the specification for performance and small footprint, the team at Clements were reliant on commissioning and service support from the equipment supplier to meet their installation timeframe.

The Heatcraft commissioning team arrived onsite early to ensure the commissioning went smoothly. The shutdown of the existing chiller commenced at 6:00am. The job was completed by 5pm. Mark Anderson, Service Manager Clements Refrigeration & Air Conditioning stated that he felt he had 100% back up from Heatcraft commissioning team throughout the whole installation.

"The Heatcraft representation was 100% committed to the job at hand and left no stone un-turned. The

engineering backup was sensational. Unitary drawings of pipe and electrical entries were precise and on-point assisting greatly with pre installation. The Lennox Neosys chiller has performed 100% to specification and performed perfectly once the power was turned on."

Since the Chiller has been installed, the facility managers at Oaks Cypress Lakes Resort have noticed the unit's reliability, excellent performance in high ambient conditions and low decibel rating. Sound was extremely important due to close proximity to accommodation.

For more information on the Lennox installation, contact your Heatcraft Account Manager on 13 23 50.

To contact Clements Refrigeration & Air Conditioning, call (02) 4932 3833.



The Lennox Chiller fit within existing plant room and thanks to the combined experience from Clements Refrigeration and Air Conditioning and Heatcraft Australia was able to installed and commissioned within the 12 hour required time frame.