

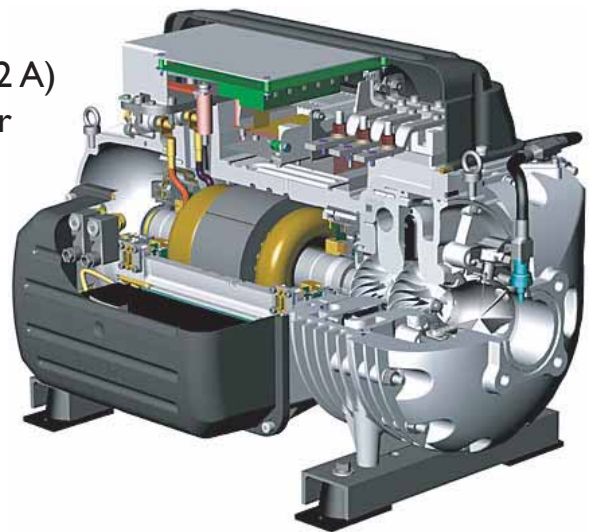
# SERVING RETROFIT MARKET

## Turbocor TT series compressor by PowerPax



### Offering Turbocor centrifugal compressor with magnetic bearings

- Plug & play installation
- Excellent payback period
- Low absorbed power
- Lowest starting current on the market (around 2 A)
- Equipment free of vibration and mechanical wear
- Lowest achievable noise level on the market
- Exceptional part-load performance (IPLV)
- Self-contained design incorporating:
  - Variable speed drive
  - Compressor controller
  - Soft starter
  - Permanent magnet efficient drive motor



### Flooded or DX applications

Suitable for retrofitting existing systems using oil-lubricated compressors with either air-cooled or water-cooled condensers

### Options:

- Full chiller controller
- BMS interface to an open protocol
- Inline suction / oil removal vessel
- Electronic expansion or level control valves with controller
- Pressure vessels or heat-exchangers
- Economizer
- EMI filtration

**Turbocor TT series**

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## TYPICAL APPLICATION



### EXISTING SYSTEM:

- ◆ 600 kW air-cooled reciprocating chiller
- ◆ Approximately 20 years old
- ◆ Suffering from various types of mechanical and electrical failures
- ◆ Low efficiency

### AIM:

- ◆ Remove both compressors and electric drive motors (total weight close to 3000 kg)
- ◆ Install two TT300 compressors with maximum weight including oil separators of under 400 kg
- ◆ Reduce power consumption
- ◆ Reduce maintenance expenditure

## BRIEF TECHNICAL SPECIFICATION

- ◆ Nominal cooling power: 280 kW
- ◆ FLC: 134A
- ◆ Nominal COP efficiency IPLV: 9.4 (water-cooled application to ARI 550-98)
- ◆ Dimensions (LxWxH)  
L : 788 mm W : 480 mm H: 490 mm
- ◆ Weight: 125 Kgs
- ◆ Noise level (load dependent): 50 to 69 dB (A)
- ◆ Capacity control: infinite, by on-board VSD

For case study results with energy audit please refer to [www.powerpax.com.au](http://www.powerpax.com.au)



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