**HANWEST PTY LTD** SPECIALISED COMPONENTS FOR AIR CONDITIONING & REFRIGERATION



ABN 49 003 452 551

## **CONDENSER SELECTION**

## SELECTION FACTORS

There are five factors that are required to enable the selection of a suitable condenser.

- **1.** Refrigerant type
- **2.** Application (Low, medium or high temperature)
- **3.** Total heat rejection
- 4. Condensing temperature
- 5. Entering water temperature

## SELECTION PROCEDURE

- **1.** Determine system compressor capacity at the design conditions.
- 2. From Table A (for hermetic compressors) or Table B (for open compressors) find the total heat rejection factor.
- **3.** Multiply the compressor capacity by the total heat rejection factor to obtain the THR.
- **4.** Air conditioning applications use the THR as above.

**Medium** temperature refrigeration applications - use the following formula: Compressor capacity x THR factor x 1.05 = THR

**Low** temperature applications - use the following formula: Compressor capacity at design suction and condensing temperature x THR factor x 1.10 = THR

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