



# APPLICATIONS NOTICE

Temperzone Limited  
Auckland, NEW ZEALAND.  
Phone 0-9-275 0735  
Fax 0-9-275 5637

Bradway Engineering Pty Limited  
Sydney, AUSTRALIA.  
Phone (02) 671 5055  
Fax (02) 622 3154

TO : AUTHORISED DEALERS  
APPROVED INSTALLERS  
SERVICE MANUAL HOLDERS  
H.O., REG. & AUST. MGRS

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FROM : Tony King/Keith Edwards

SUBJECT : SINGLE PHASE COMPRESSOR PTC START ASSIST THERMISTOR

We now have available ex stock a PTC Thermistor suitable for application to Copeland single phase R and CR body compressors, e.g. REYQ-0175, CRFQ-0250, as used in various temperzone and Bradway single phase air conditioning units.

The PTC Thermistor is a starting aid and possible remedy or part remedy in the following situations.

1. Where a compressor is "tight" and draws excessive amps on start up.
2. Where a single phase unit is applied with line lengths in excess of temperzone/Bradway standard recommendations. (Other protections would need to be made as well and warranty may well be void - refer temperzone Engineering staff).
3. Where a compressor is cutting out on either its internal overload or an external current thermal overload on start up and yet runs satisfactorily otherwise.
4. Where a compressor has a high number of starts per hour allowing minimum time for equalisation of system pressures during the off cycle. (The compressor should also be protected in this situation by an Anti-Rapid Cycle Timer).

The PTC thermistor takes about 2 minutes to recover after a start up.

## COMPRESSOR WIRING DIAGRAM

### SINGLE PHASE MOTOR

