

UltraSynch™ Technology for Refrigeration Applications



Unique Ultrasynch™ technology in the ECR82/92 means that the motor/fan maintains an absolutely constant speed across a wide voltage range (185V to 250V and 90V-140V).



Benefits of this technology

- Motor is unaffected by voltage fluctuations common in many countries which means longer motor life and savings on maintenance and service costs.
- Constant motor speed means that air flow in the refrigerator stays even, temperatures throughout the chilled space are as designed and food stays fresh longer.
- Ultrasynch™ means that the low frequency “throbbing” sounds that are often heard in supermarket refrigeration aisles simply cannot occur, as every fan will operate at precisely the same speed.

The on board computer measures the AC supply many times each second.

The ECR82/92 speed is “locked” to the AC supply frequency.
On 60Hz supplies, the ECR92 usually runs between 1809 and 1791 rpm.
On 50Hz supplies, the ECR82 usually runs between 1493 and 1507 rpm.
In addition, all ECR Ultrasynch™ fans operating from the same AC supply will operate at exactly the same speed.

A shaded pole induction motor with similar ratings will run at anything between 1600 rpm and 1200 rpm over the range of AC supply conditions encountered in normal operation.

