



REDBOX
INTERNATIONAL

RBC4000

MODEL RBC4000 *3ph In 1ph Out*
FREQUENCY CONVERTERS (MODELS AVAILABLE FROM 4KVA TO 10KVA)



Cost-Effective, Compact and Dependable:

RBC4000 series Frequency Converters provide the most cost-effective and flexible way of providing 400Hz and 60Hz for workshop use. By using the most advanced electronic design, RBC4000 models offer a remarkably compact, quiet and robust converter. This means that personnel may work in close proximity to them without the tiring noise normally associated with 400Hz 60Hz converters.

Simplicity in Operation:

Push button control panel with LCD digital display

Applications:

RBC4000 series machines are suitable for installations within plant rooms and workshops. These units are commonly used for powering production lines, test and development laboratories and simulators.

High MTBF, Low MTTR:

An oversized rectifier and robust IGBT based inverter offer high reliability, while modular construction and a simple lay-out means that access for maintenance and repair is very straight forward.

- **Low Acoustic Noise**
- **Simple Operation**
- **Comprehensive Output Display**

www.redboxpower.com sales@redboxpower.com

Tel (0) +44 1794 518888 Fax +44 (0) 1794 518848

RBC4000 TECHNICAL SPECIFICATIONS

INPUT

Mains Supply Voltage	230/400VAC±10% Single or Three Phase (other voltages available on request).
Mains Supply Frequency	50 or 60Hz±5% (other frequencies available on request).
Power Factor	0.99Pf @ full load.
Input Protection	MCB to BS EN 60898.
Protections	DC over-voltage protection, mains low protection and input surge protection.
Technology	Full wave controlled thyristor / diode bridge with IGBT power factor correction.

OUTPUT

Voltage	115V single phase (other voltages available on request)
Voltage Regulation	Static ±1%, Dynamic ±6%.
Output Wave Form	Sinusoidal
Frequency	50,60 or 400Hz ±0.1% (other frequencies available on request - 16- 850Hz).
Distortion (THD)	<3% into linear load.
Load Power Factor	0.3 lag to 0.3 lead.
Crest Factor	3:1
Overload (KVA)	120% continuous 121% for 2 minutes, 160% for 5 seconds without reduction in output voltage.
Efficiency	90-93% depending on system.
Protections	Electronic overload / short circuit, over-temperature, inverter over/under voltage and low DC shutdown.
Technology	High Frequency, pulse width modulated IGBT with isolation transformer.

GENERAL

Noise Level	<55dBA @ 1 metre.
Maximum Relative Air Humidity	90%, non-condensing
Maximum Altitude	2000m Above sea level before de-rating
Max / Min Temperature	0-40°C

STANDARDS

BS EN 50091-1 (Safety)
BS EN 50091-2 (EMC)
BS EN 61000-3-4 (Harmonics)

Model	Power	Weight Kg
4004	4KVA	170 kg
4008	8KVA	240 kg
4010	10KVA	275 kg

CASE SIZE mm

H1000 X W530 X D750 mm
Dimensions and weights can change without notice

OPTIONS

OTHER INPUT VOLTAGES
VARIOUS INPUT AND OUTPUT CABLE LENGTHS AND CONECTORS
ADDITIONAL OUTPUT OF 28V DC

