



DARWIN MK2 RANGE

BELT DRIVEN SCREW COMPRESSORS

From 5.5 to 11 kW
From 8 to 10 bar

Broadbent
Air compressors
A Division of Anest Iwata Australia

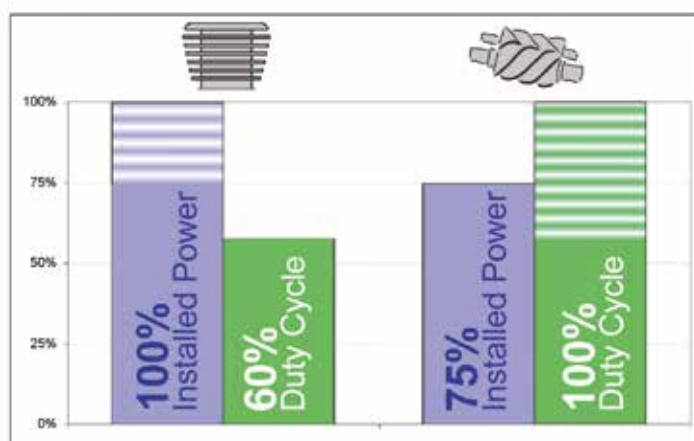
The first industrial rotary screw compressor designed to substitute your old, noisy and tired piston compressor

The Broadbent DARWIN MK2 Series has been specifically developed to guarantee the end user:

- 100% full capacity operation 24 hours per day
- Reduced energy consumption for higher volume of compressed air
- lower sound level compared to a piston compressor

A range of premium quality rotary screw compressors from 5.5 kW to 11 kW. Each model is manufactured with the highest standard using the best quality components in order to ensure a long life and total reliability. The design of the DARWIN MK2 Series benefits from years of experience in the production of innovative high quality air compressors.

The reduced installed power, the continuous operation design and the lower sound level represents fundamental advantages compared to the typical piston compressor installation.



MAIN COMPONENTS



COMPRESSOR AIR END

The DARWIN MK2 range is fitted with a single stage, lubricated air end manufactured with high quality components, providing higher efficiency and extended service life.

POLY-V BELT DRIVE SYSTEM

All DARWIN MK2 models benefit from a highly developed POLY-V belt drive transmission system that offers significantly less drive loss and three times the service life when compared to the standard "V" belts.



ADVANCED COOLING SYSTEM

The deployment of the thermostatically controlled cooling fan reduces noise and saves energy. The large surface area cools for the air and oil ensure cool operation and lower air outlet temperatures.



The simplicity of the DARWIN MK2 range of rotary screw compressors and easy maintenance makes the DARWIN MK2 Series an excellent alternative when replacing any piston compressor, allowing for an increased air volume with lower energy cost in a silent acoustic enclosure. Built using the highest quality components, the DARWIN MK2 Series features user friendly controls incorporating all safety devices via a microprocessor. Maintenance is made simple with easy access to all the serviceable parts.

The DARWIN MK2 is available from 5.5kW to 11kW.

ADVANTAGES

- Compact design and quiet operation
- Advanced cooling system
- Simple and low cost maintenance
- POLY-V belt drive system
- High quality air
- Long life and reliability



7.5 - 11 kW



5.5 kW

SIMPLE USER FRIENDLY CONTROLS

- Star delta starter
- Pressure gauge
- Hour meter
- High temperature cut out
- Automatic "safe stop" control

QUIET OPERATION

- Lower noise
- Higher efficiency

DARWIN MK2 RANGE

| Model | Power | | F.A.D | | | Max. Pressure | | Sound level | Connection | Net Weights | | Net Dimensions L x W x H |
|-------------------|-------|-----|---------|------|------|---------------|--------|-------------|------------|-------------|-----|-----------------------------|
| | kW | HP | m³/min. | m³/h | CFM | bar | p.s.i. | dB(A) | G | Kg | Lbs | (cm) |
| DARWIN MK2 5.5-08 | 5.5 | 7.5 | 0.72 | 43.2 | 25.4 | 8 | 116 | 64 | 1/2" | 125 | 276 | 60 x 52 x 78 |
| DARWIN MK2 5.5-10 | 5.5 | 7.5 | 0.65 | 39 | 22.9 | 10 | 145 | 64 | 1/2" | 125 | 276 | 60 x 52 x 78 |
| DARWIN MK2 7.5-08 | 7.5 | 10 | 1.25 | 75 | 44.1 | 8 | 116 | 68 | 3/4" | 185 | 407 | 80 x 65 x 98 |
| DARWIN MK2 7.5-10 | 7.5 | 10 | 1.00 | 60 | 35.3 | 10 | 145 | 68 | 3/4" | 185 | 407 | 80 x 65 x 98 |
| DARWIN MK2 11-08 | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 200 | 440 | 80 x 65 x 98 |
| DARWIN MK2 11-10 | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 200 | 440 | 80 x 65 x 98 |

The air flow rates have been measured at the following working pressures:
 7.5 bar for mod. 8 bar - 9.5 bar for mod. 10 bar.
 The data and performances were recorded in accordance with standard ISO 1217.
 The sound level was measured in accordance with PNEUROP/CAGI standards.

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