

# BREATHING AIR COMPRESSORS

Versatile. Reliable.

Flexible.

- Quick charging times
- Safe operation
- Various drive motors
- Easy to use
- High reliability
- Including range of accessories





# RELIABLE BREATHING AIR COMPRESSORS

### At a glance...

|  |                         |
|--|-------------------------|
|  | <b>Nominal Pressure</b> |
|  | 232 - 330 bar           |
|  | <b>Motor Power</b>      |
|  | 2.2 - 11kW              |
|  | <b>Volume Flow</b>      |
|  | 80 - 600 L/min          |



### The Range of Breathing Air Compressors

Champion offer a range of breathing air and technical gas compressors from the small portable CBA6 series with a flow rate of 100 l/min and a pressure of 300 bars to the more powerful models for large refilling centres such as the CBA36 with a flow rate of 600 l/min and a maximum pressure of 330 bar.

Compressors such as the CBA36 meet the needs of large refilling centres as it charges a 10 litre single-cylinder at 200 atmospheres in 3.3 minutes with noise levels as low as 75 dB(A). The range is compliant to EN 12021 CGA E.

Champion compressors are available with single and 3-phase electric motors as well as petrol or diesel engines. Additionally, Champion offer a series of important accessories, such as filling panels, transfer hoses, oxygen carbon dioxide and helium analysers, pressure reducers with safety valves and other useful accessories.

**POWER RANGE:** 2.2 to 11 kW

**CAPACITY:** 80 to 600 l/min

**CHARGE TIME:** 3 to 25 mins (based on charging a 10 litre cylinder)

**PRESSURE:** 232 to 300 bar

**NOISE LEVEL:** 70 to 101 dB(A)

**VOLTAGE:** 230 / 1 / 50 / 60, 400 / 3 / 50, 440 / 3 / 60

# Technical data

## Breathing Air: Compressors - Electric

**Design:** High pressure piston

**Pressure Range:** 232 - 300 barg

| CODE        | MODEL                     | VARIANT | TYPE     | VOLT     |      |      |         |       | CHARGE TIME | DIMENSIONS L x W x H [mm] | [dB(A)]       | [kg] |     |
|-------------|---------------------------|---------|----------|----------|------|------|---------|-------|-------------|---------------------------|---------------|------|-----|
|             |                           |         |          |          | [kW] | [HP] | [L/min] | [cfm] |             |                           |               |      |     |
| CC1189900   | CBA 6 EM DIN300B          | Open    | Electric | 230/1/50 | 2.2  | 3    | 80      | 2.8   | 300         | 25min                     | 650x350x390   | 91   | 39  |
| CC1189900A  | CBA 6 EM DIN232B          | Open    | Electric | 230/1/50 | 2.2  | 3    | 80      | 2.8   | 232         | 25min                     | 650x350x391   | 91   | 39  |
| CC1189900AY | CBA 6 EM YOKE232B         | Open    | Electric | 230/1/50 | 2.2  | 3    | 80      | 2.8   | 232         | 25min                     | 650x350x392   | 91   | 39  |
| CC1189901   | CBA 6 ET DIN300B          | Open    | Electric | 400/3/50 | 3    | 4    | 100     | 3.5   | 300         | 20min                     | 650x350x390   | 95   | 39  |
| CC1189901A  | CBA 6 ET DIN232B          | Open    | Electric | 400/3/50 | 3    | 4    | 100     | 3.5   | 232         | 20min                     | 650x350x390   | 95   | 39  |
| CC1189901AY | CBA 6 ET YOKE232B         | Open    | Electric | 400/3/50 | 3    | 4    | 100     | 3.5   | 232         | 20min                     | 650x350x390   | 95   | 39  |
| CC1221268   | CBA 13 ET SMART DIN300B   | Open    | Electric | 400/3/50 | 4    | 5.5  | 235     | 8.3   | 300         | 8min 30sec                | 880x480x640   | 77   | 117 |
| CC1221268A  | CBA 13 ET SMART DIN232B   | Open    | Electric | 400/3/50 | 4    | 5.5  | 235     | 8.3   | 232         | 8min 30sec                | 880x480x640   | 77   | 117 |
| CC1221268AY | CBA 13 ET SMART YOKE232B  | Open    | Electric | 400/3/50 | 4    | 5.5  | 235     | 8.3   | 232         | 8min 30sec                | 880x480x640   | 77   | 117 |
| CC1221270   | CBA 13 ET MARK 3 DIN300B  | Cabinet | Electric | 400/3/50 | 4    | 5.5  | 235     | 8.3   | 300         | 8min 30sec                | 920x610x880   | 75   | 153 |
| CC1221270A  | CBA 13 ET MARK 3 DIN232B  | Cabinet | Electric | 400/3/50 | 4    | 5.5  | 235     | 8.3   | 232         | 8min 30sec                | 920x610x880   | 75   | 153 |
| CC1221270AY | CBA 13 ET MARK 3 YOKE232B | Cabinet | Electric | 400/3/50 | 4    | 5.5  | 235     | 8.3   | 232         | 8min 30sec                | 920x610x880   | 75   | 153 |
| CC1221273   | CBA 16 ET SMART DIN300B   | Open    | Electric | 400/3/50 | 5.5  | 7.5  | 315     | 11.1  | 300         | 6min 20sec                | 880x480x640   | 77   | 117 |
| CC1221273A  | CBA 16 ET SMART DIN232B   | Open    | Electric | 400/3/50 | 5.5  | 7.5  | 315     | 11.1  | 232         | 6min 20sec                | 880x480x640   | 77   | 117 |
| CC1221273AY | CBA 16 ET SMART YOKE232B  | Open    | Electric | 400/3/50 | 5.5  | 7.5  | 315     | 11.1  | 232         | 6min 20sec                | 880x480x640   | 77   | 117 |
| CC1221294   | CBA 16 ET MARK 3 DIN300B  | Cabinet | Electric | 400/3/50 | 5.5  | 7.5  | 315     | 11.1  | 300         | 6min 20sec                | 920x610x880   | 75   | 163 |
| CC1221294A  | CBA 16 ET MARK 3 DIN232B  | Cabinet | Electric | 400/3/50 | 5.5  | 7.5  | 315     | 11.1  | 232         | 6min 20sec                | 920x610x880   | 75   | 163 |
| CC1221294AY | CBA 16 ET MARK 3 YOKE232B | Cabinet | Electric | 400/3/50 | 5.5  | 7.5  | 315     | 11.1  | 232         | 6min 20sec                | 920x610x880   | 75   | 163 |
| CC1189906   | CBA 22 OPEN DIN300B       | Open    | Electric | 400/3/50 | 7.5  | 10   | 400     | 14.1  | 300         | 5min                      | 790x1025x1545 | 76   | 415 |
| CC1189906A  | CBA 22 OPEN DIN232B       | Open    | Electric | 400/3/50 | 7.5  | 10   | 400     | 14.1  | 232         | 5min                      | 790x1025x1545 | 76   | 415 |
| CC1189906AY | CBA 22 OPEN YOKE232B      | Open    | Electric | 400/3/50 | 7.5  | 10   | 400     | 14.1  | 232         | 5min                      | 790x1025x1545 | 76   | 415 |
| CC1189907   | CBA 22 SILENCED DIN300B   | Cabinet | Electric | 400/3/50 | 7.5  | 10   | 400     | 14.1  | 300         | 5min                      | 800x1290x1740 | 70   | 420 |
| CC1189907A  | CBA 22 SILENCED DIN232B   | Cabinet | Electric | 400/3/50 | 7.5  | 10   | 400     | 14.1  | 232         | 5min                      | 800x1290x1740 | 70   | 420 |
| CC1189907AY | CBA 22 SILENCED YOKE232B  | Cabinet | Electric | 400/3/50 | 7.5  | 10   | 400     | 14.1  | 232         | 5min                      | 800x1290x1740 | 70   | 420 |
| CC1189908   | CBA 30 OPEN DIN300B       | Open    | Electric | 400/3/50 | 9.2  | 12.5 | 500     | 17.7  | 300         | 4min                      | 790x1025x1545 | 76   | 415 |
| CC1189908A  | CBA 30 OPEN DIN232B       | Open    | Electric | 400/3/50 | 9.2  | 12.5 | 500     | 17.7  | 232         | 4min                      | 790x1025x1545 | 76   | 415 |
| CC1189908AY | CBA 30 OPEN YOKE232B      | Open    | Electric | 400/3/50 | 9.2  | 12.5 | 500     | 17.7  | 232         | 4min                      | 790x1025x1545 | 76   | 415 |
| CC1189909   | CBA 30 SILENCED DIN300B   | Cabinet | Electric | 400/3/50 | 9.2  | 12.5 | 500     | 17.7  | 300         | 4min                      | 800x1290x1740 | 70   | 420 |
| CC1189909A  | CBA 30 SILENCED DIN232B   | Cabinet | Electric | 400/3/50 | 9.2  | 12.5 | 500     | 18.7  | 232         | 4min                      | 800x1290x1740 | 70   | 420 |
| CC1189909AY | CBA 30 SILENCED YOKE232B  | Cabinet | Electric | 400/3/50 | 9.2  | 12.5 | 500     | 19.7  | 232         | 4min                      | 800x1290x1740 | 70   | 420 |
| CC1189910   | CBA 36 OPEN DIN300B       | Open    | Electric | 400/3/50 | 11   | 15   | 600     | 21.2  | 300         | 3min                      | 790x1025x1545 | 76   | 415 |
| CC1189910A  | CBA 36 OPEN DIN232B       | Open    | Electric | 400/3/50 | 11   | 15   | 600     | 21.2  | 232         | 3min                      | 790x1025x1545 | 76   | 415 |
| CC1189910AY | CBA 36 OPEN YOKE232B      | Open    | Electric | 400/3/50 | 11   | 15   | 600     | 21.2  | 232         | 3min                      | 790x1025x1545 | 76   | 415 |
| CC1189911   | CBA 36 SILENCED DIN300B   | Cabinet | Electric | 400/3/50 | 11   | 15   | 600     | 21.2  | 300         | 3min                      | 800x1290x1740 | 70   | 420 |
| CC1189911A  | CBA 36 SILENCED DIN232B   | Cabinet | Electric | 400/3/50 | 11   | 15   | 600     | 21.2  | 232         | 3min                      | 800x1290x1740 | 70   | 420 |
| CC1189911AY | CBA 36 SILENCED YOKE232B  | Cabinet | Electric | 400/3/50 | 11   | 15   | 600     | 21.2  | 232         | 3min                      | 800x1290x1740 | 70   | 420 |



# BREATHING AIR COMPRESSORS



## Breathing Air: Compressors - Engine

**Design:** High pressure piston

**Pressure Range:** 232 - 300 barg

| CODE        | MODEL                           | VARIANT | TYPE   | VOLT         |      |      |         |       |       |            | CHARGE TIME  | DIMENSIONS L x W x H [mm] | [dB(A)] | [kg] |
|-------------|---------------------------------|---------|--------|--------------|------|------|---------|-------|-------|------------|--------------|---------------------------|---------|------|
|             |                                 |         |        |              | [kW] | [HP] | [L/min] | [cfm] | [Bar] |            |              |                           |         |      |
| CC1189912   | CBA 6 SH DIN300B                | Open    | Engine | Honda Petrol | 4    | 5.5  | 100     | 3.5   | 300   | 20min      | 780x350x320  | 101                       | 37      |      |
| CC1189912A  | CBA 6 SH DIN232B                | Open    | Engine | Honda Petrol | 4    | 5.5  | 100     | 3.5   | 232   | 20min      | 780x350x320  | 101                       | 37      |      |
| CC1189912AY | CBA 6 SH YOKE232B               | Open    | Engine | Honda Petrol | 4    | 5.5  | 100     | 3.5   | 232   | 20min      | 780x350x320  | 101                       | 37      |      |
| CC1221295   | CBA ERGO 16 SH DIN300B          | Open    | Engine | Honda Petrol | 6.3  | 8.4  | 315     | 11.1  | 300   | 8min 30sec | 1130x540x640 | 96                        | 135     |      |
| CC1221295A  | CBA ERGO 16 SH DIN232B          | Open    | Engine | Honda Petrol | 6.3  | 8.4  | 315     | 11.1  | 232   | 8min 30sec | 1130x540x640 | 96                        | 135     |      |
| CC1221295AY | CBA ERGO 16 SH YOKE232B232      | Open    | Engine | Honda Petrol | 6.3  | 8.4  | 315     | 11.1  | 232   | 8min 30sec | 1130x540x640 | 96                        | 135     |      |
| CC1221296   | CBA ERGO 16 LOMBARDINI DIN300B  | Open    | Engine | Lombardini   | 6.6  | 9    | 315     | 11.1  | 300   | 6min 20sec | 1130x540x640 | 96                        | 135     |      |
| CC1221296A  | CBA ERGO 16 LOMBARDINI DIN232B  | Open    | Engine | Lombardini   | 6.6  | 9    | 315     | 11.1  | 232   | 6min 20sec | 1130x540x640 | 96                        | 135     |      |
| CC1221296AY | CBA ERGO 16 LOMBARDINI YOKE232B | Open    | Engine | Lombardini   | 6.6  | 9    | 315     | 11.1  | 232   | 6min 20sec | 1130x540x640 | 96                        | 135     |      |

## Breathing Air: Accessories

| CODE      | MODEL                                           |
|-----------|-------------------------------------------------|
| CC1189917 | CBA 6 Auto Drain Timer                          |
| CC1189918 | CBA 6 Auto Stop                                 |
| CC1189919 | Safety Valve 330 Bar                            |
| CC1189920 | Safety Valve 300 Bar                            |
| CC1189921 | Safety Valve 225 Bar                            |
| CC1189922 | CBA 6 - Air Filter Cartridge                    |
| CC1189923 | CBA 13-16 Intake Air Filter Cartridge           |
| CC1189924 | CBA 22-36 hyperfilter Filter Cartridge          |
| CC1189925 | CBA 22-36 + 13-18 Tropical Oil Filter Cartridge |
| CC1189926 | Breathing Compressor Oil 1/2Lt                  |
| CC1189927 | Breathing Compressor Oil 1Lt                    |

## AVAILABLE VERSIONS

**SMART** Basic

**MARK 3** Autostop / Auto-drain / Oil level switch / Phase control / Cabin Thermo-switch

**VOLTAGE** 230 V - 50/60 Hz

400 V - 50 Hz

440 V - 60 Hz