

CAME GROUP

URBACO 

AUTOMATIC BOLLARDS

**TECHNICAL MANUAL FOR
HEAVY DUTY COMPRESSORS
LOW MAINTENANCE & OIL-FREE
50 litre /13 gal. RECEIVER
Article Code: RCMP50**

**THIS MANUAL IS INTENDED FOR TECHNICAL STAFF IN CHARGE OF
INSTALLING, OPERATING AND MAINTAINING THIS PRODUCT.**



**ELECTRIC SHOCK
HAZARD!**

Do not remove
cover when power is
on.

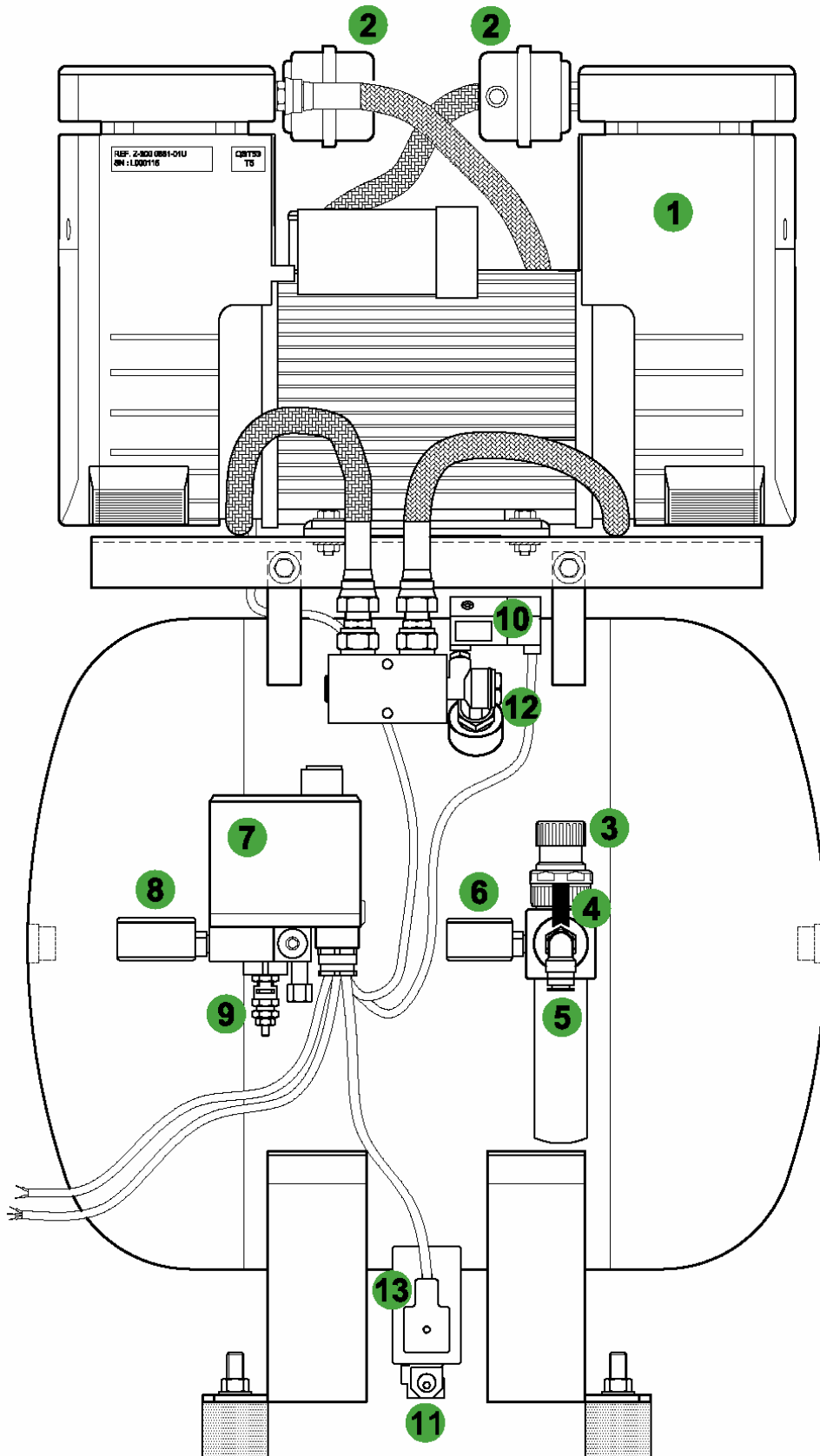


**BEWARE OF
HOT PARTS!**



CAUTION!
**MOVING PART
HAZARD**

PRESENTATION OF COMPRESSOR



SPARE PARTS

This compressor is for sale as a whole set under article code RCMP50

Nbr	Designation	Quantity	Article Code
1	Motor-compressor	1	RMTCMP50
2	Filter	1	RFLTA15
3+6	Filter Regulator 0-8 bars + Manometer Ø40 radial 1/8 (Duty pressure)	1	RMFLREGA
4	Valve, short lever plug/socket ¼	1	RVACOMP
5	Adjustable mounting bracket M¼ T10	1	RRPC1/4A
7	Pressure gauge 0-12 bars	1	RPRST
8	Manometer Ø50 radial ¼ (Duty pressure)	1	RMCP015
9	Safety valve	1	RCSS
10	Pressure relief valve	1	REVV
12	Check valve 3/8	1	RCSR
13+11	Automatic water drain + Dirt trap	1	RPURA15

DESCRIPTION

GENERAL FEATURES

RCMP50 URBACO compressor is designed to supply compressed air for URBACO automatic retractable bollards with pneumatic cylinders (jacks). Its size and the lightweight materials used make it easy to integrate inside a case or a cabinet.

This compressor has all control and air circuit elements (pressure gauge, safety valve, air vent, air filter, etc).

OPERATION

An electrical motor drives a 1-cylinder oil free compressor which does not require any special maintenance. The pressure gauge checks that pressure within pneumatic circuit is correct and the first manometer indicates the pressure in the tank. The 2nd manometer indicates the working pressure adjustable at the output air valve. An automatic drain eliminates residual condensation water out of the receiver (tank).

CONDITIONS OF USE

Because it operates without oil, this compressor may be used non stop in certain conditions. The environment surrounding the compressor must be well ventilated to guaranty this type of operation. The ambient temperature is the first criterion to be considered for long life operation.

The number of times the compressor is started per hour is also a wearing factor. Each time the compressor is turned on, it heats up more than on normal duty. A «comfortable» use should not exceed 20 starts per hour.

The maximum capacity of the micro-compressor is described in the chart below

Bollards	Generation 6						High Security		
Diameter (mm/ in)	Ø 120 / 4.72		Ø 200 / 7.87		Ø 250 / 9.84		Ø 250 / 9.84 >< 10		
Height (mm/ in)	500 / 20	750 / 30	500 / 20	750 / 30	500 / 20	750 / 30	500 / 20	750 / 30	900/ 35.5
Max. number of automatic bollards (BEAs)	25	18	15	10	10	7	2	2	2

SPECIFICATIONS

GENERAL SPECIFICATIONS:

- Compressor 2-cylinder, oil free.
- Non stop operatable
- Low maintenance
- Degree of protection: IP54
- Dimensions (L x B x H) : 470 mm x 370 mm x 720 mm //18.5 x 14.5 x 28.3 in
- Temperature range for use: -10°C /+14°F // +50°C / +122°F
- Weight: 58 kg /128 lbs
- Noise level: 71dB

ELECTRICAL SPECIFICATIONS:

Mains supply (V)	Frequency (Hz)	Amperage (A)	Motor power (W)	Rotation Speed (turns /min)
230 mono	50	6.7	1420	1380

A compressor surveillance contact is available to control length of operating time of compressor. This contact is closed when the motor is on and it is open when the motor stops.

PNEUMATIC SPECIFICATIONS:

- Maximum pressure tolerated : 10 bar
- Flow : 195 l/min at 0 bar
120 l/min at 6 bar (50Hz)
- Receiver volume : 50 litres / 13 gals.

INSTALLATION AND COMMISSIONING

ALL CABLING AND WIRING MUST BE DONE BY TECHNICALLY QUALIFIED PERSONNEL

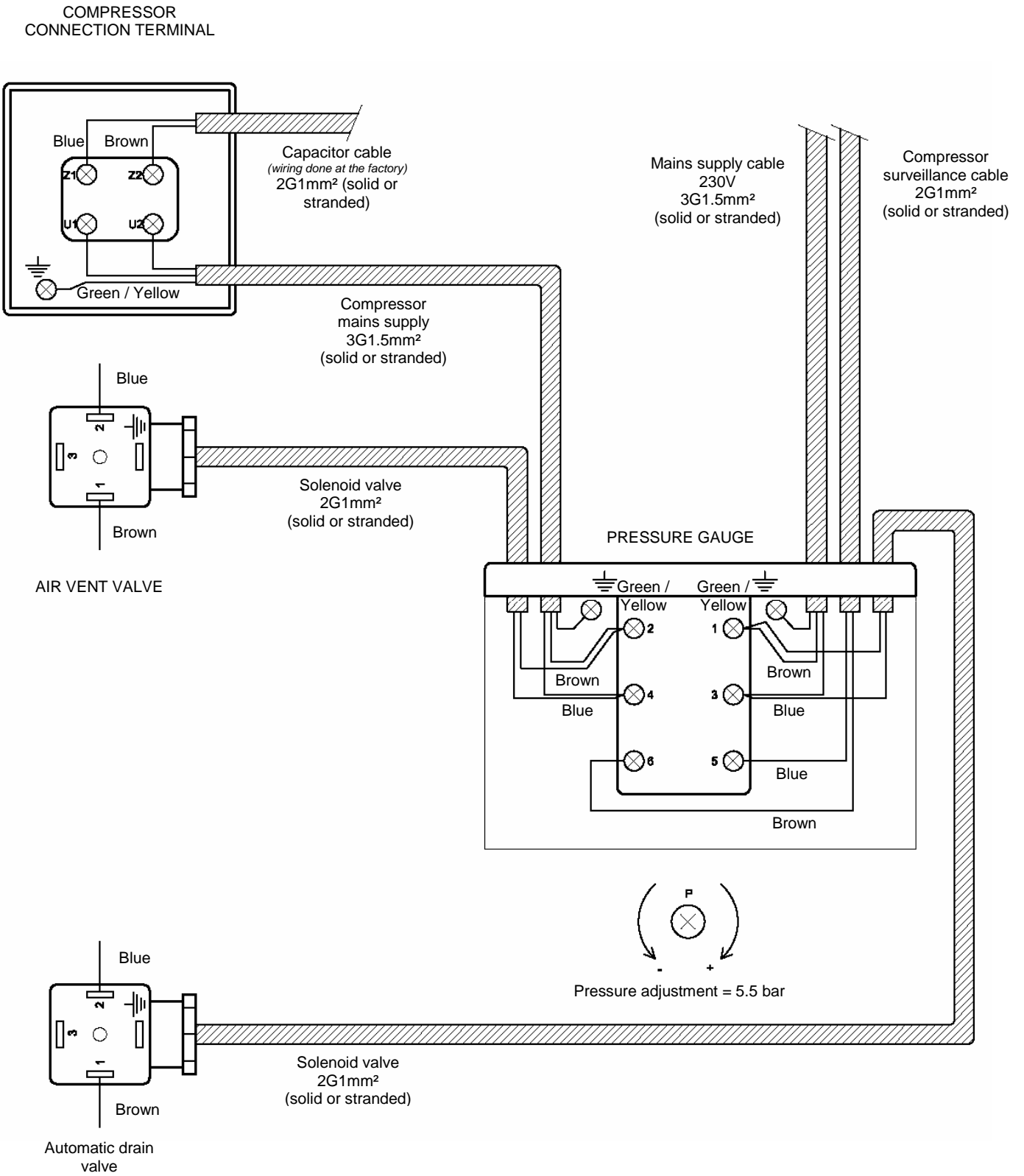
- Place the compressor on a stable and resistant surface.
- Connect flexible air tube (outer diameter 10 mm / 0.4 inches).
- Connect compressor according to the electrical diagram (main supply 230V with 3G1.5 cable and compressor surveillance with 2G1 cable).
- The compressor must be protected by a 30mA fault-current circuit breaker and 8A aM fuse.
- Turn power on and check pressure levels:
 - Pressure in the receiver must be adjusted on 8 bars, manometer (7). If necessary, set pressure on gauge by turning screw one way or the other way round.
 - Pressure on duty must be on 5.5 bars, manometer (5). If necessary, set pressure on gauge by turning screw one way or the other way round (3).

CONTROL & MAINTENANCE SCHEDULE

Control and maintenance interventions are given for information only. The various points below are to be checked depending on frequency of use.

	1 st month	2 nd month	3 rd month	4 th month	5 th month	6 th month	7 th month	8 th month	9 th month	10 th month	12 th month	13 th month
Check manometer		X		X		X		X		X		X
Check motor bearings												X
Check compressor supports												X
Check pressure gauge		X		X		X		X		X		X
Check air vent valve		X		X		X		X		X		X
Check air filter		X		X		X		X		X		X
Check for air leak		X		X		X		X		X		X
Replace air filter												X
Vent filter regulator		X		X		X		X		X		X
Test automatic drain		X		X		X		X		X		X
Check dirt trap						X						X

WIRING DIAGRAM



INTERNATIONAL SALES DEPARTMENT:

Available Monday through Friday from 8:00 a.m. till 12:30 and from 2:00 p.m. till 6:00 p.m. (local time)

+33 490 480 800



Type: RCMP50

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