

CAME GROUP

URBACO 

AUTOMATIC BOLLARDS

**TECHNICAL MANUAL
LOW MAINTENANCE & OIL-FREE
HEAVY DUTY COMPRESSOR
15 l / 4 gals. RECEIVER
Reference: RCMP15**

THIS MANUAL IS INTENDED FOR TECHNICAL STAFF IN CHARGE OF THE INSTALLATION, THE OPERATION AND THE MAINTENANCE OF THIS PRODUCT.



**ELECTRIC SHOCK
HAZARD!**
Do not remove
cover when power is
on.



**BEWARE OF
HOT PARTS!**



**CAUTION!
MOVING PART
HAZARD**
Strictly comply with
security and
protection orders.

SPARE PARTS

The compressor is for sale as a whole set under ref. code RCMP15

Nbr	Designation	Quantity	Article Code
1	Motor-compressor	1	RMTCMP15
2	Air filter	1	RFRP
3+5	Filter regulator 0-8 bars + Gauge Ø40 radial 1/8 (duty pressure)	1	RMFLREGA
4	Adjustable mounting bracket M ¼ T10	1	RRPC1/4A
6	Pressure regulator valve 0-12 bars	1	RFLTA15
7	Gauge Ø50 radial ¼ (receiver (tank) pressure)	1	RMCP115
8	Safety valve	1	RCSS
9	Pressure relief valve	1	REVV
10	Control valve 3/8	1	RCSR
11+12	Automatic water drain + Dirt trap	1	RPURA15
13	Valve	1	RVACOMP

DESCRIPTION

GENERAL FEATURES

RCMP15 URBACO compressor is designed to supply compressed air for URBACO automatic 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, manometer, 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 on the output air valve. An automatic drain eliminates residual condensation water from the receiver.

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 operation ratio. 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 bollards (BEAs)	15	12	10	6	6	4	1	1	1

SPECIFICATIONS & SPECS

GENERAL SPECIFICATIONS:

- 1-cylinder compressor, oil free
- Non stop operatable
- Low maintenance
- Degree of Protection: IP54
- Dimensions (L x B x H) : 470 mm x 360 mm x 700 mm // 18.5 x 14.1 x 25.6
- Temperature range for use: -10°C /+14°F // +50°C / +122°F
- Weight: 34 kg / 75 lbs
- Noise level: 66dB

ELECTRICAL SPECIFICATIONS:

Mains supply (V)	Frequency (Hz)	Amperage (A)	Motor power (W)	Rotation Speed (turns /min)
230 mono	50	4.9	920	1390
230 mono	60	4.3	970	1660

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 : 8 bar
- Flow : 105 l/min at 0 bar
60 l/min at 6 bar (50Hz)
- Receiver capacity : 15 litres / 4 gals

INSTALLATION AND COMMISSIONING

ALL CABLING AND WIRING MUST BE DONE BY QUALIFIED PERSONNEL

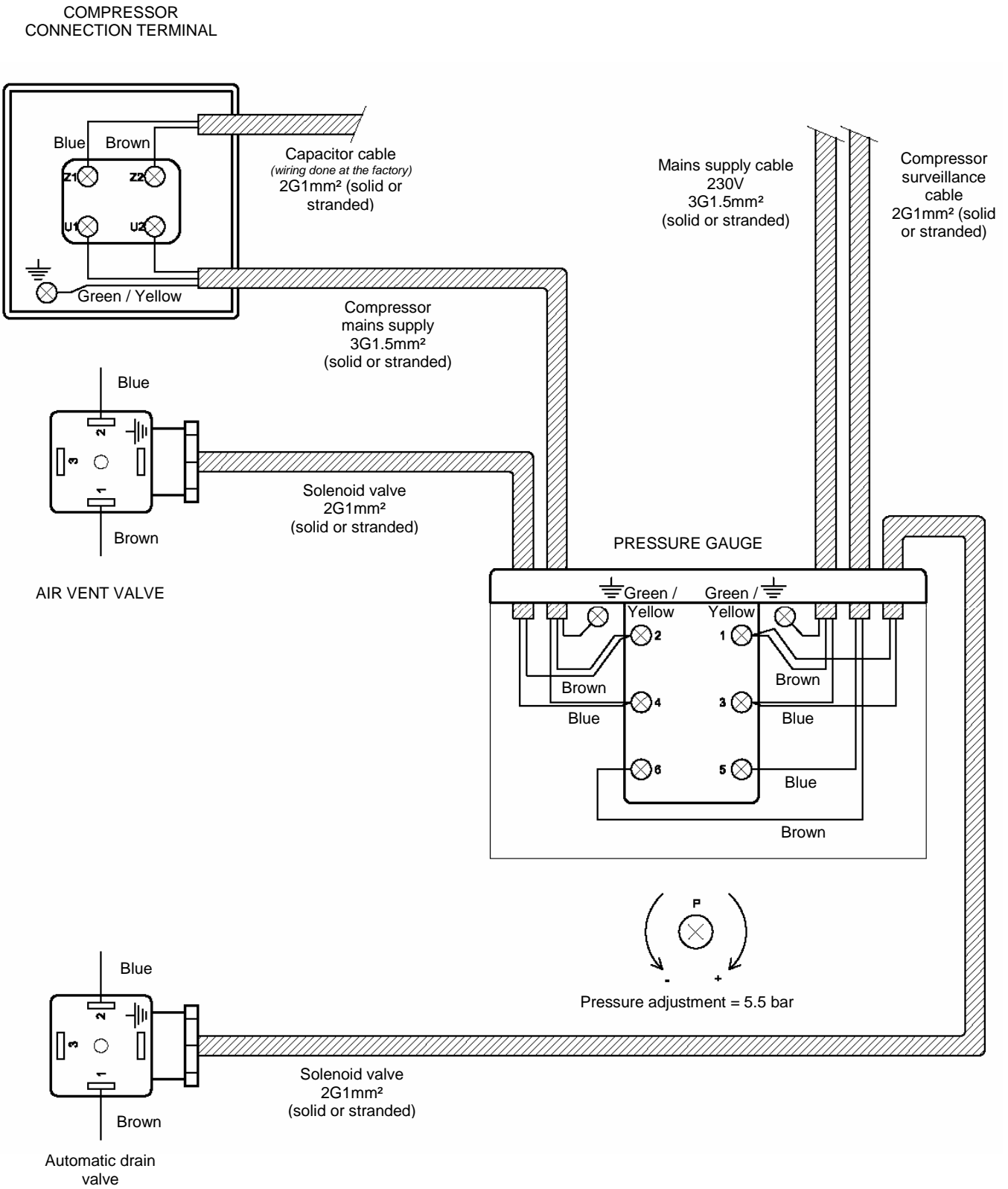
- Place the compressor on a stable and resistant surface.
- Connect flexible air tube (outer diameter 10 mm / 0.4 inches)
- Connect compressor according to the electrical diagram (main supply 230V with 3G1.5 cable and compressor surveillance with 2G1 cable).
- The compressor must be protected by a 30mA fault-current circuit breaker and 6A fuse.
- Turn power on and check pressure levels:
 - Pressure in the receiver must be adjusted on 8 bar on gauge (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 bar on gauge (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 may have to be checked more or less often 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





Type: RCMP15

This edition: June 2006

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