USI ITALIA s.r.l.
Via della Metallurgia, 14
37139 Verona – Italy
Tel. +39 045 8510388
Fax +39 045 989496

PRESSURE SWITCH INSTALLATION

ON MIXING ROOM

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1 Introduction

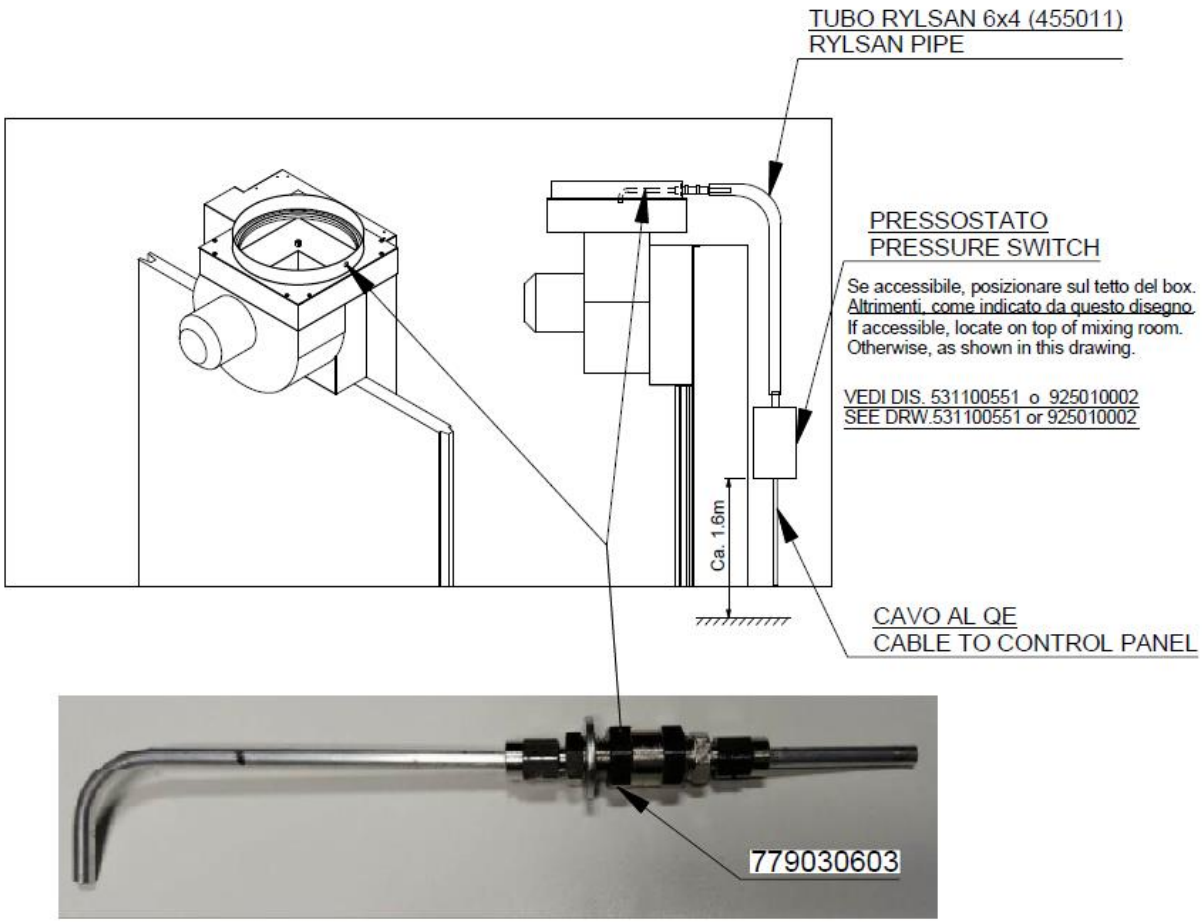
We have recently received several requests from inspectors / local authorities to provide functional changes or safety implementations in the paint mixing rooms. In order to unify the product, and in the absence of a specific European regulation for paint mixing rooms, we have applied one of the most common requested safety requirements to the whole production of Usi Italia paint mixing rooms. As a matter of fact, we have introduced a differential pressure switch to check the correct ventilation of the room.
As consequence, it has been slightly modified the functionality of control panel: ventilation must be turned on all the working day, while the lights only as long as needed. For all the information in this regard, see paragraph 3 in the following page.

2 Pressure switch installation

The device must be installed after the ventilator unit, with proper air kit 779030603 and must be set during mixing room commissioning as showed in the drawings, simplified in the picture below.

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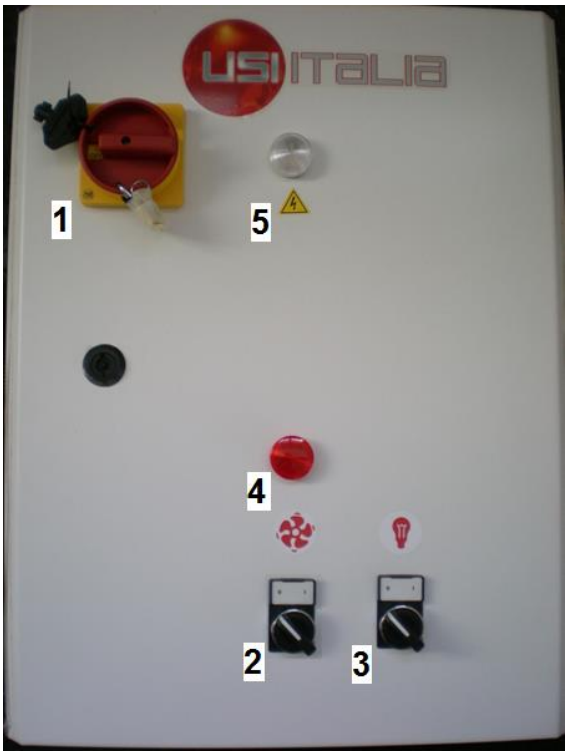
TARATURA / SETTINGS
MISURARE LA PRESSIONE POSITIVA E RIDURRE DEL 30%. E.S. : VALORE MISURATO =100 Pa 100 - 30% = 70 Pa TARARE A 70 Pa
MEASURE THE POSITIVE PRESSURE AND DECREASE BY 30% E.G. : MEASURED VALUE = 100 Pa 100 - 30% = 70 Pa PRESSURE SETTING =70 Pa

TARATURA / SETTINGS
MISURARE LA PRESSIONE POSITIVA E RIDURRE DEL 30%. E.S. : VALORE MISURATO =0,4"w.c. 0,4 - 30% = 0,28"w.c. TARARE A 0,28"w.c.
MEASURE THE POSITIVE PRESSURE AND DECREASE BY 30% E.G. : MEASURED VALUE = 0,4"w.c. 0,4 - 30% = 0,28"w.c. PRESSURE SETTING =0,28"w.c.

3 Control panel operation

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1 – Main switch

2 – Fan ON/OFF switch

3 – Lights ON/OFF switch

4 – Ventilation anomaly light

5 – Power ON indicator light

3.1 Ordinary start up at the beginning of operation hours

1. Turn main switch (**pos. 1**) to position '**ON**'. The indicator light (**pos. 5)** lights up.
2. Turn switch (**pos. 2**) to "**I**" position. The fan that realizes the air exchange of the mixing room starts running. Once the pre-set purge time has elapsed, the lights can be turned on. **The ventilation system shall be in operation during operating hours or whenever solvent vapours are present.**
3. Turn the selector (**pos. 3**) to the '**I**' position. If ventilation is on and the purge time has elapsed then the lights will turn on. To turn off the lights, turn the selector to the '**0**' position. During operating hours the lights can be switched on and off according to the need to use the mixing room.
4. If the ventilation is running (switch **pos. 3** in position '**I**') and there is an anomaly in the air exchange (detected by the flow switch) the red light (**pos. 4**) lights up and an audible alarm sound (buzzer). In this condition, the operator must stop using the mixing room and follow the indications of user and maintenance manual.

3.2 Ordinary shutdown at the end of operation hours

Check carefully that inside the mixing room there are no sources of solvent vapours (cans opened or not sealed tightly, rags soaked with solvents, tools soiled with paint, etc.) and then turn off the lights by turning the switch **pos. 3**,in the stop position '**0**' and turn off the ventilation by turning the switch **pos. 2** in stop position '**0**'.

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