

PRESSURIZATION SYSTEM FOR INKJET CABINET

“INKJET DEFENDER 100”

SYSTEM FOR PRESSURIZATION CABIN “INKJET DEFENDER 100”

DETAILED DESCRIPTION OF THE SYSTEM:

01. N° 1 AIR TREATMENT UNIT

Performed with robust casing composed by panels pressed-folded in galvanized steel, with gasket interposed; equipped with counter-frame of filters insertion, filtering section with filter support frames, door for access and maintenance. Plenum soundproof housing fan (§ 02).

- BAG FILTERS: series of glass microfiber filters, sewn longitudinally with protective coating polyester.

Flow rate: $Q = 2000 \text{ m}^3/\text{h}$

Filter surface area: $6,80 \text{ m}^2$

Fine filtration, Class F7 (EN 779:2002).

Flammability: F1 - DIN.53438

02. ELECTRO-FAN

in outlet centrifugal type high efficiency, housed in soundproof plenum of the unit, having the following technical specifications:

- FLOW RATE $2000 \text{ m}^3/\text{h}$
- TOTAL HEAD $\sim 110 \text{ mm w.c.}$
- POWER $1,1 \text{ kW}$
- ABSORBED POWER $0,85 \text{ kW}$
- ROTATING SPEED $2840 \text{ RPM} - 2\text{P}$

Constructive Specifications:

- statically and dynamically balanced impeller
- single acting suction volute with suction and drive inlets
- steel shaft on bearings with grease lubricated mounts
- supports for installation in plenum of the filter
- vibration damper on outlet mouth
- three-phase electric induction motor directly coupled with the fan.

03. N° 1 OUTLET PIPING

discharge from the mouth of that box in the Your cabin, with a cross section sized to obtain the most suitable air velocity, performed with galvanized sheet fittings / bends sectors with low pressure drop, flanges and / or coupling sleeves, gaskets and bolts for mounting.

AIR SHOOTING FROM HIGH.

04. ELECTRIC BOARD

with overload cut-outs for fan motor, stop-start button, status indicator lights and selector switches. Installed on board of treatment unit, with electric wiring to electro-fan. Equipped of: Automatic system load loss ΔP testing, through the filtering surface with alarm, signaling the need to replace / regeneration of the filter.

05. ENGINEERING AND DOCUMENTATION

based on approved lay-out of the Client, including:

- sketches of positioning of the treatment group;
- indications for power supply and pneumatic;
- plant's documentation; manuals of use and maintenance.

