OBEL-P GROUP

OBEL-P Automation A/S

Product information: Obel-P Flow Coater

Obel-P Automation produces a wide range of flow coaters which are shortly described in this product information.

The machine described is for windows with max. dimensions up to 1700x2500 mm. The size of the machine will be adapted to the customer's requirements.

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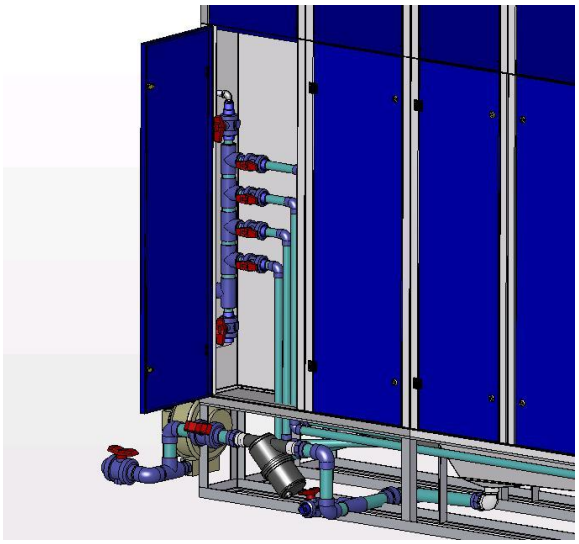

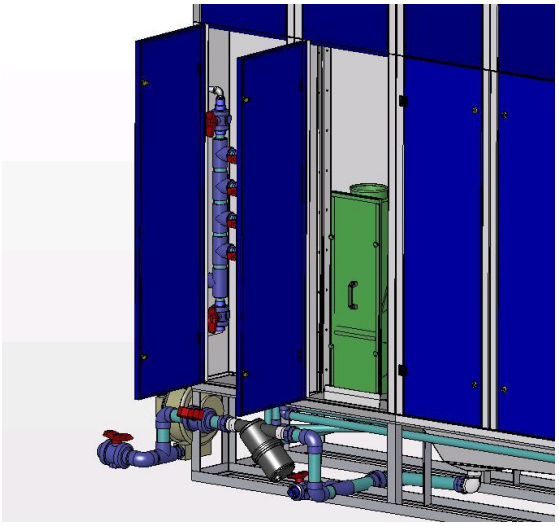

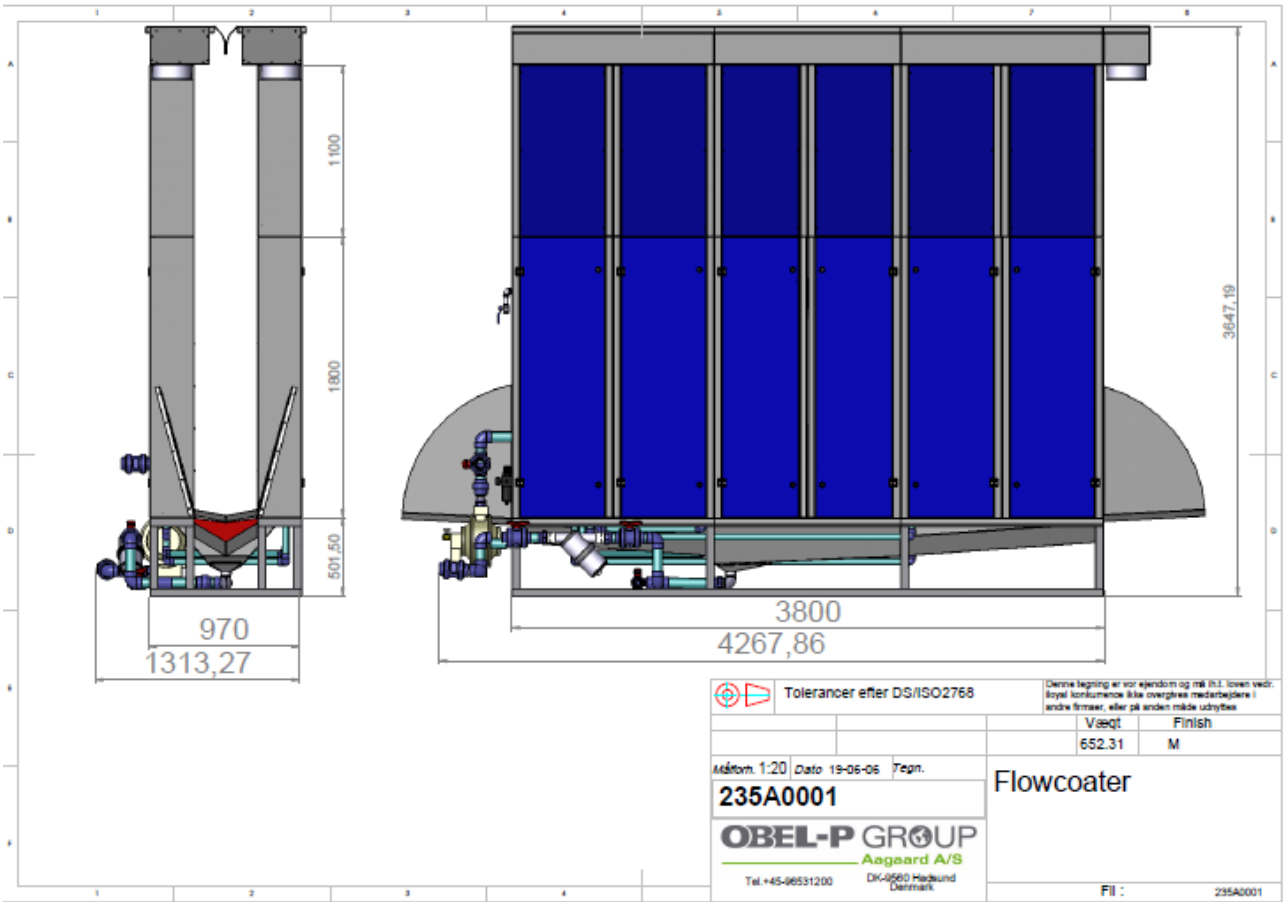

Turn/Key solutions for production of window, door, furniture and construction components
Pofile Wrapping, HF-Presses, Moulders, Saws, Glue Application, Special machines
Hard Wood, Soft Wood, Wood Based Panels

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Flow Coater, type AFW - 4000.

The system is user-friendly and compactly built with pump, piping, and extraction system built into the cabin.

Specifications:

- The cabin is lacquered on the outside and coated with teflon foil on the inside for quick and easy cleaning.
- Bottom vessel and draining racks in stainless steel.
- The nozzle strings are made from stainless steel and fastened with a spring coup-ling for easy assembling/disassembling.
- A compressed-air driven diaphragm pump conveys the liquid internally in the system and to/from the system.
- An integrated extraction system prevents vapour from oozing into the product-ion room.
- The control panel is well-arranged and user-friendly with pushbutton activation of the valves.
- The control is prepared for time operation together with the conveyor.
- Everywhere we have used quality materials, which do not cause corrosion or discoloration even in connection with water-based products.
- The pump will normally be delivered with diaphragms and valves in NBR-rubber. For liquids aggressive to NBR-rubber we suggest that the pump is equipped with diaphragms and valves in PTFE (teflon). Further information about the aggressivity of the liquid can be obtained at the liquid supplier in question.

Technical data:

The outside dimensions of the flow coater:

Length	:	4,000 mm (excl. draining racks)
Width	:	1,000 mm
Height	:	3,550 mm* (excl. supporting bracket)

* It is possible to lower the system by max. 500 mm below floor level so that the height above floor level is 3,050 mm.

Draining racks:

Length/section	:	2,250 mm
Width	:	500 mm

Dimensions of the passing zone:

Height	:	2,900 mm
Width	:	500 mm

Volume of treatment liquid:

Min.	:	40 l
Max.	:	200 l

Diaphragm pump:

Output	:	5.5-6 m^3/h
Air consumption	:	20-25 Nm^3/h

Extraction system:

Output	:	app. 1,500 m^3/h
Diameter of outlet pipe	:	250 mm

Electricity connection:

Voltage	:	3 x 400 V + PE
Current	:	3.3 A
Power	:	1.5 kW
Frequency	:	50 Hz

Compressed-air connection:

Pressure	:	5-10 bar
Pump	:	½" internal pipe thread
Time signal	:	4 mm hose coupling

Own weight	:	app. 1,300 kg

Operation conditions:
Max. workpiece size approx. 1,700 x 2,500 mm depending on the suspension angle and the height of the draining rack.

The workpieces must be suspended so that they lean approx. 20° downwards, so that there is free outflow of the surplus liquid, and so that the workpieces do not “shade” each other.

The feeding speed through the system may not exceed 4 m/min.

Nozzles and piping system must be thoroughly flushed after use.

Compressed air for the diaphragm pump must be free from water vapour and oil mist.

Electric Panel, Type PL Control – for paint system complete.

For central units, overhead conveyor and exhaust fans, drying room and vacuum room.
Plate capsulated panel in tightening class IP54 for fully automatic control and super-vision of the operating and security functions of the central units.
Main switch, star-delta starters, motor protection, relays, fuses, start/stop switch, terminal block, emergency stop and automatic anti-freeze of heat battery. In case of frost hazard (an incoming air temperature of approx. +12°) the fan is stopped, and the motor-operated closing damper is closed at the same time as the heat supply is com-pletely turned on.
When the frost hazard has passed over (an incoming air temperature of + 12°C), the fan is restarted, the motor damper is opened and the motor valve will be in balance again. The electric panel is prepared for zero (extra protection), but is excl. phase compensation.
The panel is fitted with numbered terminal blocks for external coupling and is sup-plied fully internal coupled.
Complete with variable speed control via frequency converter to the conveyor.

Energy saving dampers ∅500 with gun support.
For automatic closing of exhaustion and supply air, when the spray gun is put down.

Fan Type ALF - kW.
Complete with spark proof inlet. Impeller with backward curved blades, efficiency approx. 75%. Direct driven by 1450 r.p.m. standard motor.
Inlet and outlet for ductwork.
L x W x H = x x mm
Motor = kW, 1450 R.P.M/min.
Performance = m³/h at PA

The data for the fan are depending of the size of the machine.

Console for Type ALF Fan.
Complete in strong galvanized execution

Ducting – Complete.
In longitudinally grooved galvanized plate sheets with clamp joints incl.
Ducts in standard lengths of 1 or 2 metres.
Bends in pressed execution from ∅80 - ∅200 and segment bends from ∅225.
Clamps type Fb - Ebb, flanges, pipe brackets, bolts and mounting parts.
From Flow-Coater and let out through the roof/wall and finished by deflector cap.

For more information please contact us..

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