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Modular dryers AQUADRY are a modern, efficient and flexible solution for in-line-drying; they are characterized by great practicality in use, due to the continuous panel feeding system. The combined in-line dryer, shares the efficiency of the high speed hot air and infrared lamps with a high radiation capability, results in the most efficient drying system for paints or the most efficient flash-off and/or

drying system for water based lacquers, as it reduces the evaporation times of the water contained in the finish. The dwell time in the dryer depends on the panel feeding speed; it is limited to a few minutes and can carry out flash-off operations for lacquers with final UV hardening, or otherwise fast drying for one- and/or two-components water based lacquers.



#### PLUS AND BENEFIT

- The high speed hot air flow, is achieved by feeding air through air blades connected to an inlet duct: this produces a very efficient and consistent thermal exchange.
- The air blades are installed in equally spaced rows along the whole dryer plenum and guarantee uniform air distribution, in terms of speed and capacity, on all panels.
- In order to achieve maximum drying efficiency, it is possible to use different types of lamps with varying wave-lengths, depending on the kind of product and on the quantity applied. The lamps are placed transversally and alternately to the air blades.
- The ventilation system comprises: an external air inlet and recirculation unit with heating exchanger, and an exhaust ventilator. Minimum filtration level G3. The air capacities are variable through manually or automatic adjusted dampers.
- Automatic temperature adjustment of the ventilating air.
- The incoming air to the dryer is mixed with re-circulated air, the appropriate balance of which provides significant energy savings.
- Variable exhaust ventilator capacity.
- Structure of dryer and ventilating unit: is of sandwich panels of steel with polyurethane foam insulation, guaranteeing energy savings. Lower parts closed using insulation material, inserted into the panel feeding conveyor.
- The modules (3 to 9) can be assembled giving lengths in multiples of 1500 mm.

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## AVAILABLE OPTIONS

1. Two models with different air capacities are produced: VS = Standard Ventilation and VM = Increased Ventilation.
2. Electric servo control for automatic air speed adjustment, with display at control panel, by means of Pitot tube static anemometer.
3. Pneumatic operating damper for closing exhaust.
4. Frost protection, with sensor and automatic damper.
5. Installation of IRCK lamps
6. Installation of NIR lamps
7. Installation of CARBON lamps
8. Installation of IRM lamps
9. Power adjustment for lamps
10. RLA = version without air heating, executes Cooling with high speed air blades, with automatic adjustment between external and/or internal air inlet

## TECHNICAL FEATURES

- Dryer length: 4500 ÷ 13500 mm.
- Cooling length: 3000 ÷ 10500 mm.
- Working width dryer: 1300 mm.
- Passage working height: 80 mm

## TECHNICAL SPECIFICATIONS

Options	Electric power kW	Jet air speed mt/sec	Thermal power kcal/h	Air make-up mc/h	Air with solvent exhaust mc/h
1 – AQUADRY LA - VS	8,05	9,5 ÷ 27	100.000		0 ÷ 2000
1 – AQUADRY LA - VM	12,5	12,5 ÷ 37	135.000		0 ÷ 5000
5 - n. 1 row IRCK lamp	6				
6 - n. 1 NIR lamp	8,5				
7 - n. 1 CARBON lamp	4,5				
8 - n. 1 IRM lamp	3,5				
10 - RLA	4,5 ÷ 13,2	18 ÷ 32,5		6000 ÷ 12000	

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