

**ORVS**

**OIL VACUUM UNITS  
WITH LIQUID RING PUMP**



**ROBUSCHI®**

PUMPS AND BLOWERS

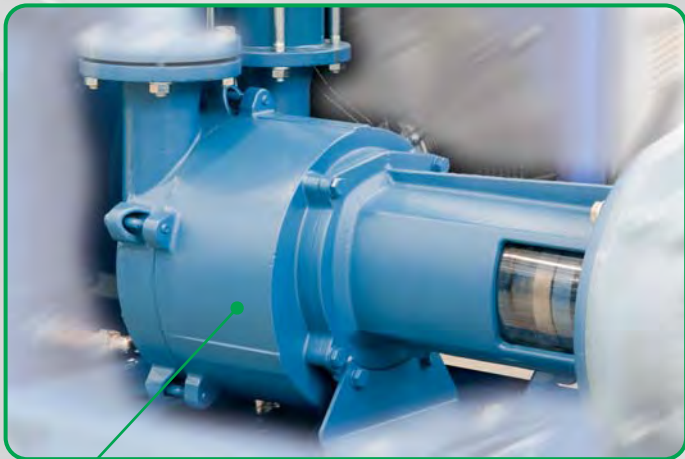
Robuschi is pleased to present the new **ORVS unit, with total oil recirculation: compact, modular and easy to install.**

The unit consists of a Robuschi liquid ring pump, **RVS** range, powered with closed circuit oil and fitted with electric drives and various auxiliary equipment and accessories to meet the various needs of our clients.

The **ORVS** range includes a wide range of sizes, for capacity levels from 40 to 800 m<sup>3</sup>/h of suction gas.



Baseframe - oil tank with inspection hatch, circulation oil, level indicator, oil/condensation discharge valve



Robuschi RVS liquid ring vacuum pump with mechanical seals, anti-cavitation valve and non-return valve.



Cartridge filter

Oil-gas separator



Oil circulation electric pump with cut-off valve (ORVS 3, 7, 14 excluded)





Electronic heat regulator for detection and oil temperature alarm



Air/oil exchanger with solenoid valve

## CHARACTERISTICS

- **high performance:** the total oil recirculation guarantees high performance levels up to 10 mbar of absolute vacuum
- **cost-effectiveness:** thanks to the complete elimination of the service water used in the traditional units
- **possibility to intake gas with vapour:** thanks to the exclusive system that separates the condensation aspirated, and the properties of the oil used
- **high vacuum level:** constant even at high room temperatures and with high aspirated gas temperatures
- **silent operation:** the technical characteristics of the unit itself ensure silent operation
- **minimum maintenance:** thanks to the vapour reduction filter with its regenerable cartridge, that uses recirculation oil and guarantees the perfect lubrication of the inner parts of the pump, protecting those parts subject to wear and tear and ensuring a long working life
- **Options:** separator tank at the inlet, and complete electric panel

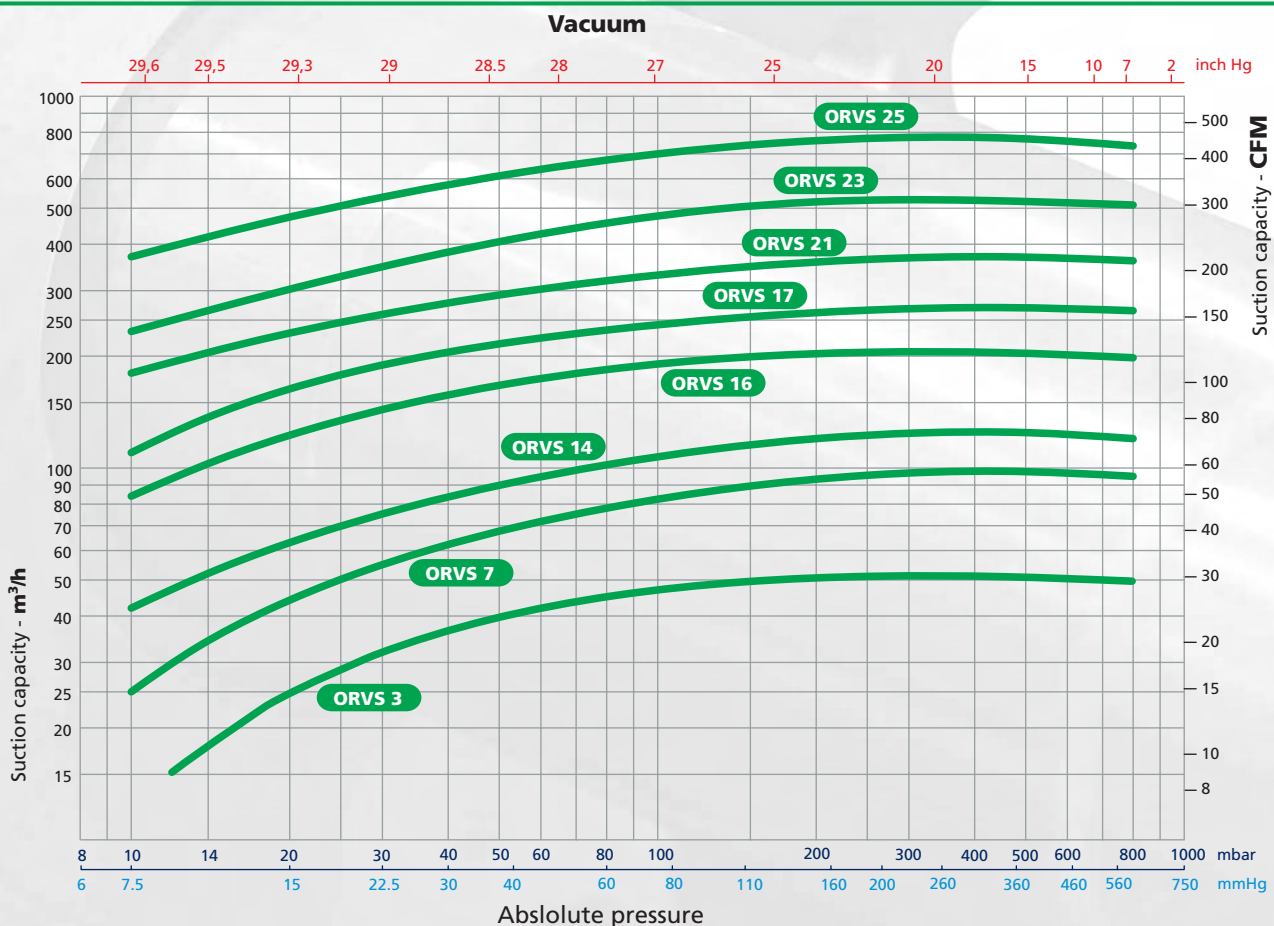
## APPLICATIONS

The **ORVS** units are able to satisfy the need for a high level of vacuum, with a water shortage problem. Thanks also to these characteristics, there are many possible applications in the various processes of the industrial sector:

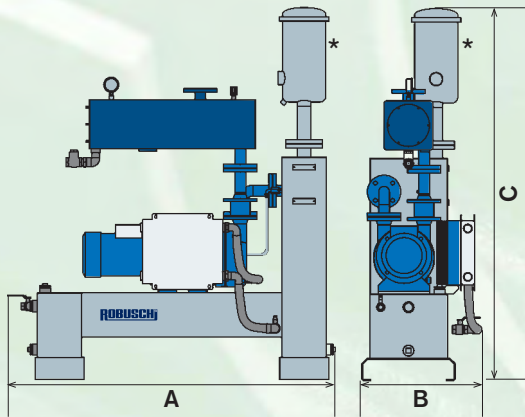
- **brick and pasta-making industries:** in the degassing of the mixture from the extruders
- **plastic industry:** in the extrusion processes
- **tanning industry:** in the vacuum dryers for tanning leathers
- **chemical-pharmaceutical plants:** in the distillation and crystallisation processes
- **wood industry:** in the dryers

...in all those systems where it is necessary to centralise the vacuum, with considerable savings in maintenance costs, and ease of installation.

## PERFORMANCES

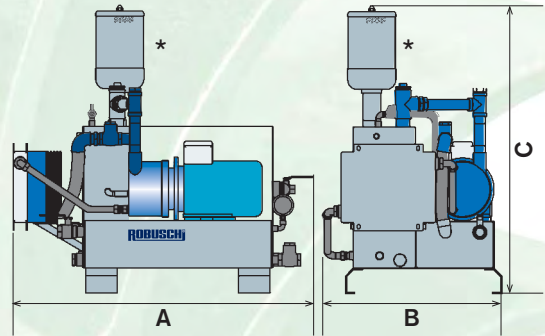


## DIMENSIONS (mm)



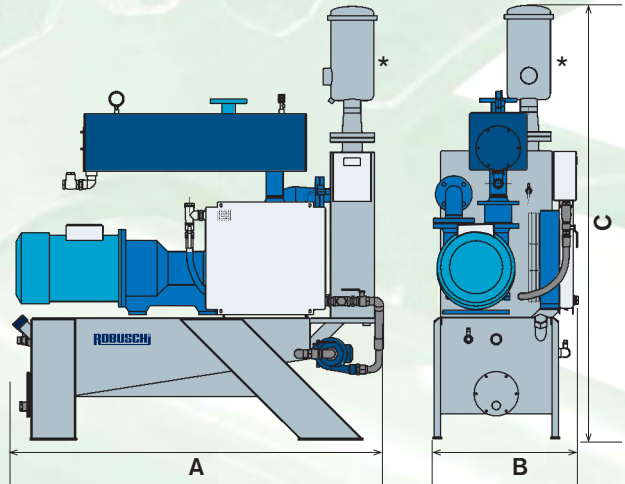
ORVS 7 - 14

ORVS 3



ORVS 16 - 17 - 21

ORVS 23 - 25



Type	Motor		A	B	C
	RPM	kW			
ORVS 3	2900	1,5	955	570	915
ORVS 7	1450	3	1475	540	1680
ORVS 14	1450	4			
ORVS 16	1450	5,5			
ORVS 17	1450	7,5	1710	665	1960
ORVS 21	1450	11			
ORVS 23	1450	15	2036	800	2639
ORVS 25	1450	22			

\* different types of filter available on request

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