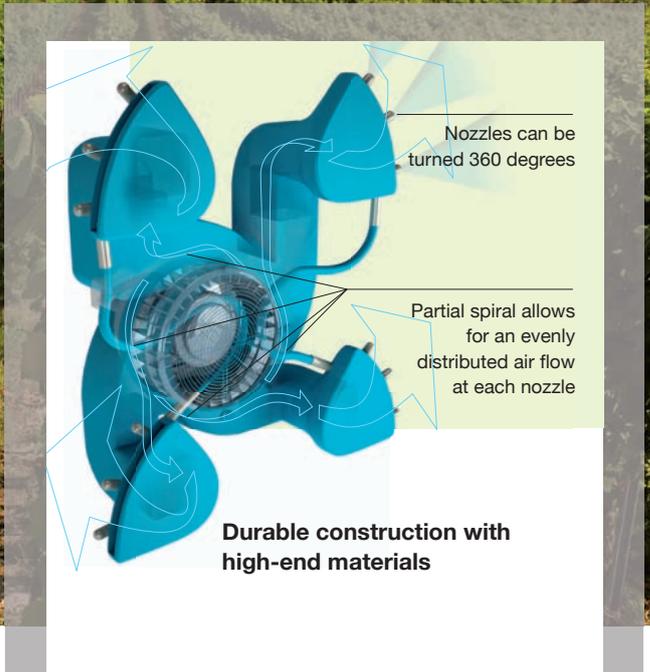


The Revolution



Radial blowers for a wide spectrum of uses

In the past 40 years, VICAR has perfected radial blower technology for specialty crops allowing a wide range of applications. "With five basic models and 15 different turbine layouts, the blowers are able to handle everything from low, narrow vegetable beds to tree-lined roads with trees up to 45 m in height and width," says Timo Sexauer from LTS Landtechnik Sexauer. For more than 35 years, the business based in Bischofingen in the Kaiserstuhl region has been a dealer for VICAR pesti-

Patented partial spiral system

Each of the turbine's spray nozzles receives air from different sections of the turbine wheel (see graphic). If the outlets are closed-off on one side of the turbine via the hydraulically adjustable air-flow valves, for example in a water protection area or at the edge of a forest, the air intake is automatically adjusted to the

optimal volume, in this case by half. This guarantees both consistent air flow and air symmetry at all outlets. To avoid frictional losses between the turbine wheel and the air outlets, the curved ducts are equipped with special directional fins that stabilize the air flow.



Timo Sexauer uses his in-depth knowledge of viticulture to support product innovation at VICAR.

cide application equipment throughout Europe and overseas. "Thanks to our extensive experience in orchard and vineyard management, we've been working closely with VICAR in the areas of product refinement and pest management technology innovation", Timo Sexauer says, explaining his company's close relationship with the manufacturer. The son of a wine grower, Sexauer has been closely involved with viticulture since his childhood and is familiar with both the vineyards' demands in equipment performance as well as the challenges of intense cultivation on often steep terrain.

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VICAR radial blowers – ecological. economical. efficient.



Save time and costs by driving down only every other row for pesticide applications

Efficient pest management technology for viticulture

Efficient pest management is the basis for high crop yields and grape quality. Especially when pest pressures are high, it is crucial that pesticides thoroughly penetrate the foliage, including the undersides of each leaf as well as the entire fruit. That is exactly what VICAR radial blowers excel at by using higher air speeds at lower air volumes, compared to other blower types. This allows the air, as the



carrier of the pesticide, to be directed more precisely. As a result, pesticides are dispersed onto plants and fruit more efficiently and cost effectively.

Greater penetration with higher air speed



When working down every other row in a vineyard, VICARS' radial blowers with their higher air speeds have a great advantage: not only do they achieve much greater penetration of the plants, especially in the first row, but also better adsorption of the pesticide in the second row. This is the requirement for a thorough coating of all plant material, both the leaves' upper and under sides as well as the entire grapevine structure. Depending on the width of application and the resulting speed losses over distance, the average coating rate is about 40% for the first and up to 60% for the

second row. Thus, if you work down every other row, the reverse effect allows you to achieve a nearly 100% application rate on each side of each grapevine. Not only does this save the expense of acquiring multi-row pesticide applicators, but it also saves time and fuel yielding lower labor and operating costs.

Decades of hands-on experience.
Technical know-how.
Expert consulting services.

LTS LandTechnik Sexauer

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Foliage penetration with VICAR blowers

