

Aluminium Impellers for spraybooth ventilation

Choosing a fan that can deliver a precise airflow and a consistent pressure in and out of the spray booth is critical when removing fumes and overspray, and ensures an adequate change in make up air. Axair has supported spray booth manufacturers for over 30 years, providing low noise, low weight, fan and impeller solutions.

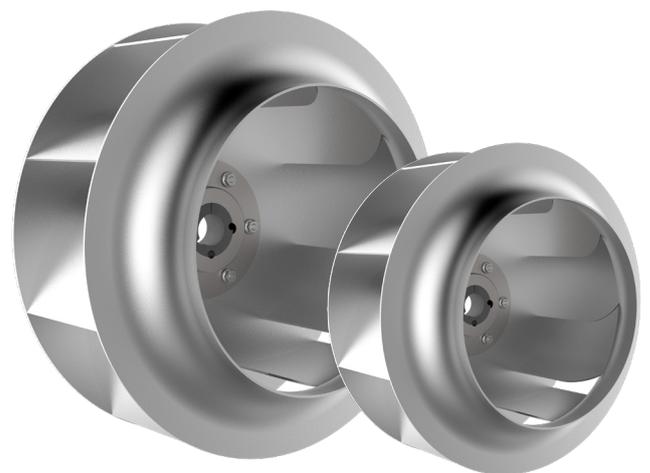
Why an Impeller only Solution?

Sourcing fans with motors for spray booth ventilation can make plant assembly a little more cumbersome. This can lead to delays in production as engineers have to find a work around a fan and motor module to ensure it fits, quite often this can lead to unbalanced impellers and a lack of performance. Choosing to source a correctly sized impeller for a spray booth application based on its own advantageous qualities, is the preferred route for the largest players in the paint booth market and one that smaller independent paint booth manufacturers are looking to replicate. With this method, the booth manufacturer supplies their own motor that is located outside of the airstream for additional safety



Which Impeller do we Suggest?

We advise clients to use the LRHF range of aluminium W series impellers from our manufacturing partners Rosenberg. In choosing the right impeller we precisely match the size of the motor and fan performance for each booth so that the fan operates at dBa levels within specified levels.



Sourcing a correctly sized impeller without a motor is the preferred route for the largest players in the spray booth market.”

Key Features & Benefits



Our industrial range of impellers adhere to industry standards and specifications, meeting the requirements of both standard and custom manufacturing plants. Available on short lead times from 250-1000Ø.

Lightweight Aluminium

The lightweight aluminium material of our W series backward curved impellers make them much easier to transport and install than competitor steel alternatives.



Dynamically Balanced Impellers

All LRHF W series impellers feature 8 backward curved blades and are dynamically balanced according to DIN ISO 21940-1 at least with quality level G6.3.

Technical Understanding

All impellers are supplied with aluminium hubs (Bgr.250-710) and taper lock steel hubs (Bgr.450-710). Our team can advise on the motor and shaft size that are suitable for the impeller we choose, ensuring it meets your operating point.



Increased Safety

By sourcing the impeller and the motor separately manufacturers are able to place the motor out of the airstream and choose ATEX motors where applicable for additional safety. The onus is on the manufacturer to determine the zone that the unit will be operating in.

“Lightweight aluminium impellers are much easier to install than steel alternatives.”

Key Impeller Specifications

Article Number	Impeller Size (mm)	Description	Max RPM
R63-28019	280Ø	280Ø W BC Impeller c/w 19Ø hub - Keyway	4600
R63-35524	355Ø	355Ø W BC Impeller c/w 24Ø hub - Taper lock	3600
R63-40028	400Ø	400Ø W BC Impeller c/w 28Ø hub - Fixed hub	3200
R63-45028	450Ø	450Ø W BC impeller c/w 28Ø hub - Fixed hub	2900
R63-56228	560Ø	560Ø W BC Impeller c/w 28Ø hub - Taper lock	1950
R63-63138	630Ø	630Ø W BC Impeller c/w 38Ø hub - Taper lock	1750
R63-71038	710Ø	710Ø W BC Impeller c/w 38Ø hub - Taper lock	1500
R63-80042	800Ø	800Ø W BC Impeller c/w 42Ø hub - Taper lock	1250

Description Key:

W - W Series Impeller
 BC - Backward Curved Centrifugal Blades



More Information

Inlet Ring Specifications

Article Number	Impeller Size to Fit (mm)	Description
Q51-25004	280Ø	Inlet Ring for 280Ø W BC Impeller
Q51-31520	355Ø	Inlet Ring for 355Ø W BC Impeller
Q51-35520	400Ø	Inlet Ring for 400Ø W BC Impeller
Q51-40020	450Ø	Inlet Ring for 450Ø W BC impeller
Q51-50010	560Ø	Inlet Ring for 560Ø W BC Impeller
Q51-56000	630Ø	Inlet Ring for 630Ø W BC Impeller
Q51-63015	710Ø	Inlet Ring for 710Ø W BC Impeller
Q51-71015	800Ø	Inlet Ring for 800Ø W BC Impeller



Contact Us

Whatever your requirement, concern or question, contact our OEM team using the below contact details. Alternatively, visit our website and open a live chat to start discussions.

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