



WALKER
INDUSTRIAL SYSTEMS



WBPF Series Plug Fans

Walker Industrial Systems are the industrial fan and blower portfolio of the GJ Walker Group.

Servicing customers Australia-wide, we provide robust ventilation solutions for industrial environments. With the ability to customise products to suit individual project requirements, we manufacture a variety of options for different applications.

With performance and reliability at the forefront of design, our fans and blowers are also backed by an experienced team. Our expertise spans a wide range of commercial, HVAC, and industrial environments, and we provide exceptional service, delivery, and performance to the market that is synonymous with the GJ Walker name.



Pharmaceutical



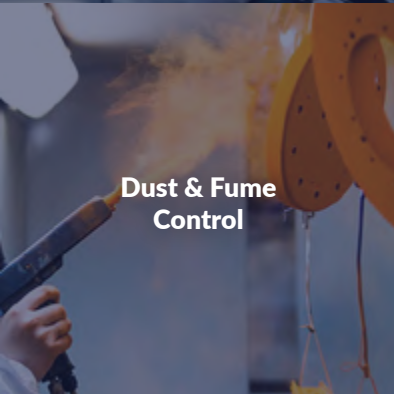
Mining



Paper & Pulp



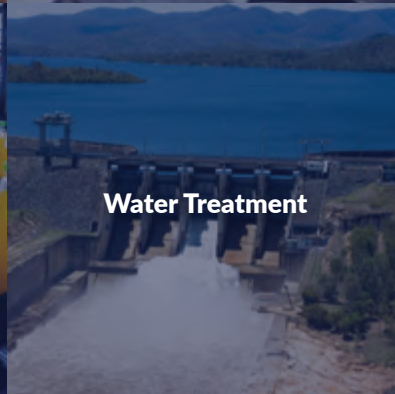
Manufacturing



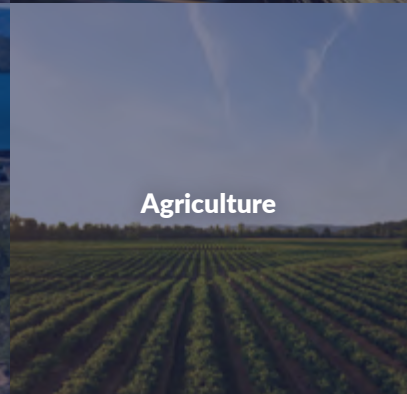
Dust & Fume Control



Food Processing



Water Treatment



Agriculture

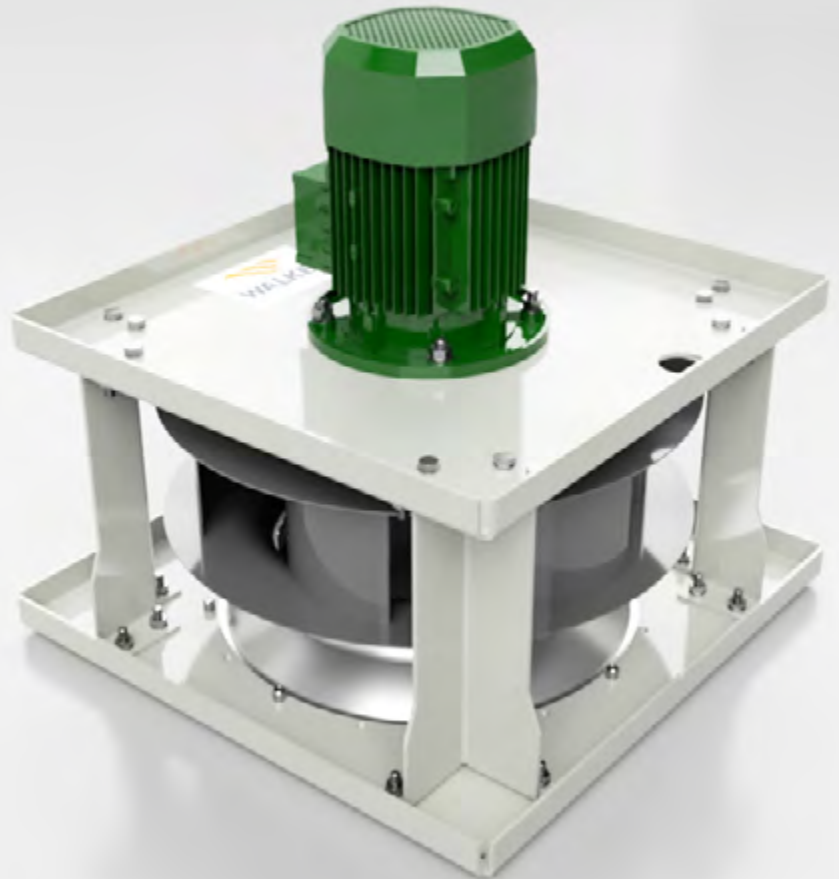
WBPF Series Plug Fans

Walker Industrial Systems plug fans are unoused fans designed for easy installation directly into a plenum. Our plug fans are ideal for retro applications where system performance requires expansion within the same space.

Designed and manufactured for efficiency, our Walker Industrial Systems plug fans are a compact design and perfect for use in various applications including general HVAC systems and air handling units.

With energy consumption being a major consideration in every engineer's equipment selection procedure, we can provide the most energy efficient fan size for any required duty.

To determine the most efficient fan size, get in touch with our team of experts today.



WBPF Series Plug Fans



Size range
280mm dia. to
630mm dia.



Power range
.75kW to 7.5kW
(see tables)



Can be mounted
in vertical or
horizontal
position
(horizontal with
ALU motor)



Checked for
stress using FEA
(finite element
analysis)



Locally
assembled -
Typically 4 week
lead time



Possible to modify
for anti-sparking
or increased safety
environments
(max. speed limits
may apply)

Tables

Permissible mechanical combinations - do not attempt to compare rpm limits with airflow/pressure, as wheels are different geometry.

2 pole

4 pole

6 pole

WBPFN	0.75	1.1	1.5	2.2	3	4	5.5	7.5
280/80	3180	3640						
310/80		2990						
310/90			3310					
355/90		2490	2750	3090				
400/90		2050	2280					
400/112						3150		
450/90		1710						
450/132								3030
500/100				1760				
560/100			1300	1455	1640			
630/112				1220		1480		
630/132							1650	

WBPFY	0.75	1.1	1.5	2.2	3	4	5.5	7.5
280/80	3170	3650						
315/80		2950						
315/90			3300					
355/90		2300	2560	3020				
400/90		2000	2220					
400/112						3180		
450/90		1615						
450/132								2920
500/100				1700				
560/100			1240	1420	1590			
630/112				1155		1470		
630/132							1610	

WBPFR	0.75	1.1	1.5	2.2	3	4	5.5	7.5
280/80	2920	3300						
315/80			3060	3495				
315/90		2435	2695	3070				
355/90		1870	2075					
400/90							3225	
400/112		1585	1755					
450/90								2930
450/132				1640				
500/100					1525			
560/100				1110				
630/112							1505	1675

uses longer leg kit
uses longer leg kit
uses longer leg kit

- Standard WBPFN is made with airfoil impeller
- Impeller and inlet cone are interchangeable with WBPFR and WBPFY
- WBPFR requires IE3 motor for NCC compliance
- WBPFR 560 / 630 requires longer leg kit
- Default motor sizes as tabulated, it is not recommended to swap motor poles or kW's

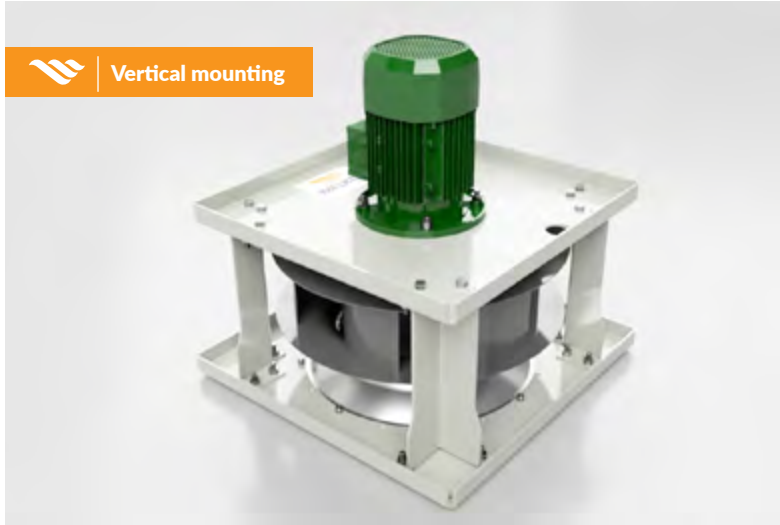
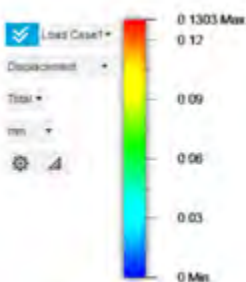
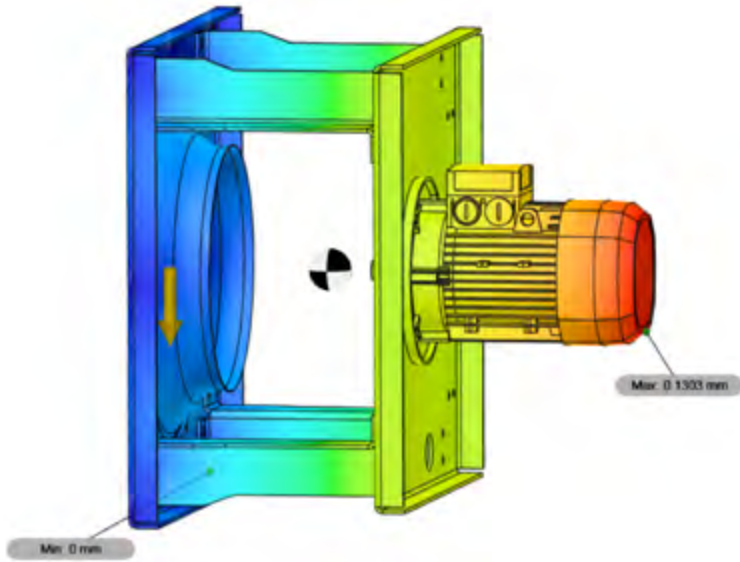
Finite Element Analysis (FEA)

Finite element analysis (FEA) is a computerised method for predicting how a product reacts to real-world forces, vibration, heat, fluid flow, and other physical effects. Finite element analysis uses mathematical techniques to predict what is going to happen when the product is used, as part of the product development process. It works by breaking down a complex structure into smaller and more manageable portions. As the structure gets split into smaller sections, more knowledge is gained of how the larger structure will respond to stressors.

Today's finite element analysis software is intuitive to use, accessible across electronic devices, and incredibly fast and powerful. Finite element analysis helps predict the behavior of products affected by many physical effects, including:

- Mechanical stress
- Mechanical vibration
- Fatigue
- Motion
- Heat transfer
- Fluid flow
- Electrostatics
- Plastic injection molding

FEA allows our clients to save time and money, reduce energy and material waste, and gather instant and accurate feedback on how physical stress could affect your products. It also contributes to a quicker, less intensive design cycle with increased productivity.





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