



## Typhoon

### Ionizing airknife, blower driven

Simco-Ion's Typhoon airknives eliminate static and remove particulate from flat or contoured surfaces. Typhoon incorporates a high-velocity blower with a deep penetration airknife. This system provides a continuous stream of clean ionised air for removal of surface particulate and contamination. The Typhoon is adaptable to large halo systems used for auto and truck body cleaning prior to painting. It is also extremely suitable for smaller pre-paint cleaning systems for plastic parts and fascia. By using blowers instead of compressed air, Typhoon can reduce operational costs by 30 to 70%.

The airknife is constructed of extruded aluminium with incorporated mounting grooves. This design provides a precise air volume over the entire width of the airknife. In the airknife tube a high air pressure appears and is flowing out of the airknife narrow outflow opening. The anti-static bar produces positive and negative ions which are blown onto the surface by the airknife. The electrons will now be exchanged, which causes the surface to be neutralised and the impurities to be removed. For use in hazardous zones, the Typhoon with the P-Sh-N-Ex anti-static bar is approved.

### Power unit A2A7M

Typhoon systems with EP-Sh-N anti-static bars incorporate a power unit type A2A7M. This unit contains an additional 12V power source for connection of the airpressure sensor.

### Features

- Incorporates Simco-Ion anti-static bars which quickly neutralize static, facilitating easy removal of particulate
- Clean, uniform, high-velocity ionised air provides "one-step" cleaning
- Direct-drive motors require little or no maintenance
- Anodised finish for corrosion protection
- Connection for pressure sensor
- New design extruded aluminium profile
- Cost efficient versus compressed air
- Two mounting grooves
- Small blower / low noise level



## Specifications

	Typhoon	
	with E-P-Sh-N	with P-Sh-N-Ex
Working distance	2000 mm max.	2000 mm max.
Working width	on demand	on demand
Housing material	aluminum	aluminum / steel
Ionizing bar material	PVC	PVC
Emitter pin	special alloy	special alloy
Cable	metal shielded	Neoprene
Weight	4 kg/m	base 2 kg + 4,3 kg/m
Ambient temperature	0 - 55 °C	0 - 40 °C
Use circumstances	industrial	industrial
Operating voltage	7 kV AC	7 kV AC
Airconnection	75 mm Ø	75 mm Ø
U primary		230V 50Hz
Suitable power unit	A2A7S/MPM	integrated
Approval	UL	UL, ATEX
ATEX category		II 2 GD Ex smb IIB T4 Ex mD 21 T135C
ATEX certificate		BAS00ATEX2162X



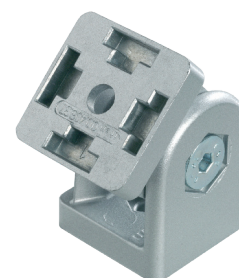
Typhoon with EP-Sh-N anti-static bar



Typhoon with P-Sh-N-Ex anti-static bar



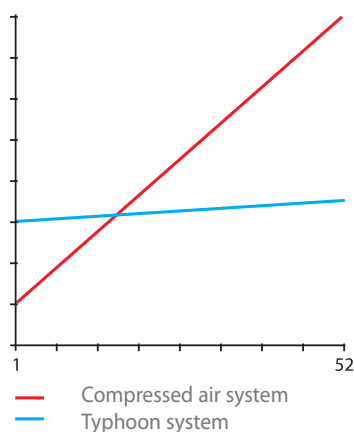
Powerfull but compact blower for the Typhoon  
airknife. Supplies filtered air to the airknife



Optional mounting hinges for Typhoon airknife.

## Profitability calculation

Considerable savings in operating costs (30-70%) can be achieved when blowers, rather than compressed air, are being used. We would be pleased to help you comparing our system with compressed air systems. Using a spreadsheet, Simco-Ion will be able to calculate exactly the payback period of a planned investment in a Typhoon, when you provide the relevant variables.



## Applications:

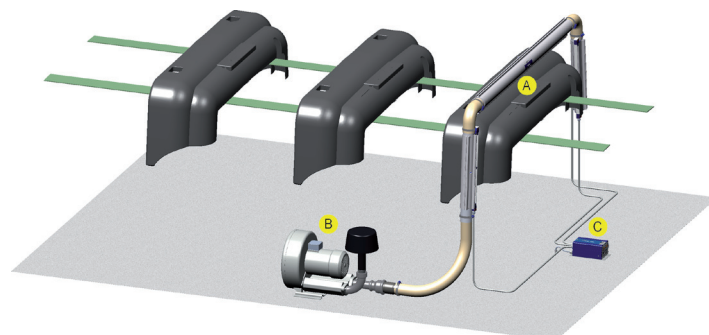
- Car bumpers / dashboards: Cleaning
- Winding sections: Neutralising
- Car bodies: Cleaning
- TV Castings: Cleaning
- Electronic cabinets: Cleaning
- General Mouldings: Cleaning
- Packaging materials: Neutralising
- Thermoformed trays: Neutralising



A2A7M Power Unit with 12V  
connection for the pressure sensor



An optional airpressure sensor can measure the air pressure inside the airknife. If the pressure drops under the required level, the system does not work optimal. A system check is then necessary, often it appears that the air filter needs to be cleaned.



Bumper painting

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