Push-pull type ventilation system components

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1 Push hood

A three-stage design consisting of a punched metal plate, a honeycomb plate, and a pair of louvers supplies streamlined, straight-flowing air.

2 Pull hood

A pull hood ensures adequate exhaustion of streamlined air flowing from the supply side of the system.

3 Air supply fan

The system incorporates a high-efficiency turbo fan to ensure adequate airflow, even after accounting for duct pressure losses.

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4 Exhaust fan

The system incorporates a high-efficiency turbo fan to ensure adequate airflow, even after accounting for duct pressure losses.

5 Control panel

The control panel incorporates an inverter so that the system can be adjusted to supply the necessary amount of airflow while operating on the minimum amount of power.

6 Ductwork

We can propose waste-free ductwork that is designed to maximize operability.

Specifications

	Model number	Hood dimensions (mm)		Duct diameter	Airflow	Motor capacity
	Model Humber	Width	Length	(ø)	(m²/min.)	(kW)
Horizontal flow	PPH-0909	900	900	200	15	1.5
	PPH-0912	1200	900	200	20	1.5
	PPH-0915	1500	900	250	25	1.5
Downward flow	PPV-0909	900	900	200	15	1.5
	PPV-0912	1200	900	200	20	1.5
	PPV-0915	1500	900	250	25	1.5

*Prices are subject to modification depending on operating conditions at the customer's facility.

*Customer is responsible for installation work, duct materials, and shipping.

Options



Activated carbon filter



Fan stand



Package-type horizontal system



Related equipment

Package-type vertical system



Troubleresa II Plus with data logger for

SHOWA DENKI CO., LTD.

Overseas Sales Dept.

1-25 Shinden Kita-machi, Daito-city, Osaka, Japan 574-0052 Tel: +81-72-871-1511 Fax: +81-72-870-7243 E-mail: web-info@showadenki.co.jp

SHOWA DENKI (THAILAND) CO., LTD.

No1/46 Soi2 Grande De Ville, Soi Supapong 1 (Soi Srinakarin 42), SriNakarin Road Nongbon, Pravet Bangkok, Thailand 10250 Tel: +66-2330-8798 Fax: +66-2330-8799 E-mail: wannapha@showadenki.co.jp (Japanese, Thai, English)

SHOWA DENKI (KOREA) CO., LTD.

A-710 Cheonan Mirae Ace High Tech City,10, Baekseokgongdan 1-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea TEL: +8241-906-5710 FAX:+8241-906-5720 E-mail: skr@showadenki.co.jp

SHOWA DENKI (TAIWAN) CO., LTD.

No.82, Liaoyang 4th Street, Beitun Dist., Taichung City, Taiwan TEL: +886-4-2241-3005 FAX: +886-4-2241-3006 E-mail: stw@showadenki.co.jp

Push-pull Type Ventilation System



Solutions for creating safe working environments





Three features of push-pull ventilation

Emitted toxic substances flow into the exhaust hood before they can disperse, keeping them from contaminating the surrounding area.

Safety

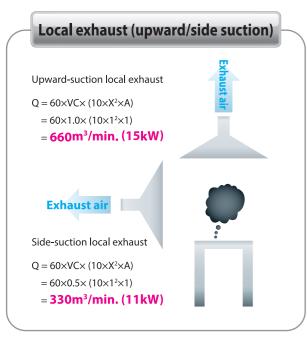
Workability

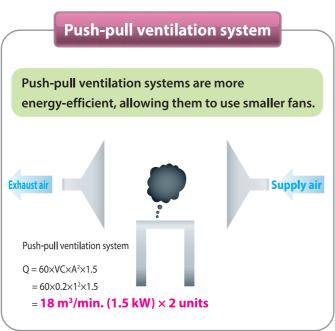
Energy efficiency

Workability is maintained at the site since the system can be installed in an open space. The system functions effectively with small motors since the air it supplies travels over a long distance.

Comparison of ventilation methods

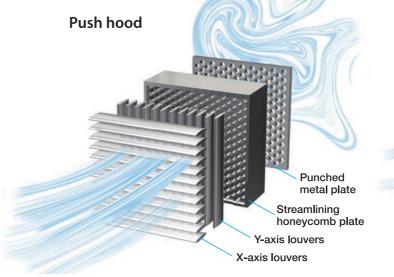
Conditions: Distance of 1 m from source of emissions to hood and hood size of 1 m $\,$

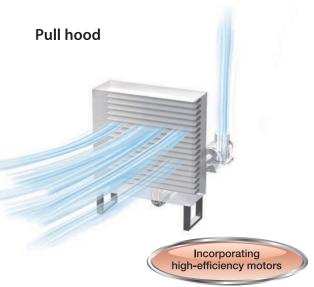






Showa Denki technology Showa Air Technology





System benefits

	Before	After	
Measurement site	Motor winding factory	Motor winding factory	
Measurement date	March 8, 2016	September 20, 2016	
Measurement worksite	Varnish area	Varnish area	
Name and management limit for measured substance	Styrene, 20 ppm	Styrene, 20 ppm	
Measurement results (A) (geometric mean value)	M ₁ = 5.7 (ppm)	M ₁ = 5.3 (ppm)	
Management category	П	I	
Measurement results (B)	55 (ppm)	3.8 (ppm)	
Management category	Ш	I	

