

## ECHOSWIFT Fume Hoods with Scrubber System

Echoswift scrubber system is design to wash down the hazardous contaminate before it discharge to the atmosphere.

A scrubber is an air pollution control device that removes aerosol and gaseous pollutants from the air stream. Echoswift offer three (3) type of scrubber that are outdoor (SO), Inside fume hood (SI) and beside (SB).



- **Main Body.**  
Baked epoxy coated electro-galvanized (EG) steel. Fire-retardant F.R.P. (Fiber Reinforced Polyester)
- **Work Surface**  
Moulded from black or grey modified epoxy polyester resin with fiberglass reinforce plastic. It has an anti-spill edge all round to curb any accidental spillage.
- **SASH**  
The sash is made form 6mm thick toughened glass. The sash counterbalanced with weight linked by stainless steel cable running over nylon pulleys.
- **Frame Panel**  
Removable side panel constructed with 1.0mm minimum thickness electro galvanized steel and coated with special chemical resistant epoxy sandblast powder coat.
- **Front Fascia**  
Front Fascia with door shall be made of special chemical resistant epoxy sandblast powder coat finished electro galvanized (E.G) steel. Minimum thickness of E.G. steel would be from 1.0mm.
- **Spray Nozzles**  
Polypropylene Nozzle with direct spray system. Spray angle is 2 square feet per area.
- **Scrubber Tank**  
Scrubber Tank made of PVC and capacity 75 litres.

Schedule of Technical Data for Scrubber System

Description	Specification
Manufacturer	EchoSwift Sdn Bhd
Casing Material	Electro galvanized steel sheet with oven baked special chemical resistant epoxy sandblast powder coat
Spray Nozzles	Polypropylene
Material & Spray Angle	Water & 2 sq. feet per area
Volume / Nozzle (Direct Spray Size)	1/8 in
Air Resistance / Pressure drop (ins.w.g)	2 in w.g.
Material of Sum Tank	PVC
Dimension of Sum Tank (mm)	600 (L) x 500 (W) x 250 (H)
Capacity of Sum Tank	75 Litres

Schedule of Technical Data for Scrubber Water Pump Motor

Description	Specification
Manufacturer	Italy
Model	FIMETT I Pump – MP-40RM-220
Inlet / Outlet	19 mm / 19 mm
Capacity	45 l/min
Motor Power	230V/50Hz/1ph

Schedule of Technical Data for Filter

Description	Specification
Type	Exchangeable
Manufacturer	JET (USA)
Material	HDPE
Efficiency	98%

SPECIFICATION	MODEL			
Description	ECHOSWIFT 1.2 SB	ECHOSWIFT 1.5 SB	ECHOSWIFT 1.8 SB	ECHOSWIFT 2.4 SB
Dimension (W x D x H) mm	1200 x 760 x 2400	1500 x 760 x 2400	1800 x 760 x 2400	2400 x 760 x 2400
Internal Dim. (W x D x H) mm	950 x 610 x 1500	1250 x 610 x 1500	1550 x 610 x 1500	2150 x 610 x 1500
Construction	Main Body: Baked epoxy coated electro-galvanized (EG) steel Inner Chamber: Fire-retardant F.R.P. (Fiber Reinforced Polyester) Work Surface: Epoxy polyester resin Sash: Tempered glass, 6mm thickness (toughened glass) Base cabinet: Baked epoxy coated electro-galvanized (EG) steel			
Service Fixtures	Drip cup made of polypropylene (PP) 1 unit gas fixture 1 unit water fixture 2 units 13 Amp electrical socket outlet			
Lighting	2 x 20 watts Soft fluorescent light for interior illumination			
Optional	Centrifugal Fan/ Blower 3 or 1phase (FRP, P.P, etc.) Volume air control/ Damper (PVC)			

Our skillful team could design and install to follow with our guideline (ACGIH, OSHA International and ANSI Z9.5 – 1992 to comply with USECHH 2000 Regulation under OSHA 1994 (Act 514) and Malaysian Clean Air Act Regulations 1978. under Department of Environment (D.O.E)



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Fan / Blower



FRP Fan



P.P fan



Belt Driven

Accessories



Impeller (P.P)



Motor



Gas Phase Filter

Service



Testing

