

General imsubs™  
Air Amplifying Products

## **Embrace THE Change** **Use General imsubs Products**



- ◆ Blowing & Cleaning
- ◆ Suction of chips & dirt
- ◆ Suction of coolants
- ◆ Spot cooling
- ◆ Panel board cooling
- ◆ Barrel emptying & filling
- ◆ Washing with coolant
- ◆ Drilled blind hole cleaning
- ◆ Coolant spraying
- ◆ Pneumatic portable conveyor
- ◆ Cable, tube & extrusion wiping
- ◆ Dunnage bag inflator
- ◆ All with Compressed Air

## ENERGY AND COMPRESSED AIR SAVING BLOW OFF PRODUCTS

**PSH-7 + High Thrust Nozzle HTB - 4**



- ◆ Air amplification upto 3 times.
- ◆ Lower noise level. ◆ High Thrust.
- ◆ Meets international safety norms.
- ◆ Repairable ◆ Stainless nozzle.
- ◆ Air Consumption 14 SCFM.
- Thrust : 340 gms. @ 300 mm, 99 db.

**PSH-7 + Silent Nozzle SILENT-300**



- ◆ Significant reduction in noise levels without sacrificing thrust. ◆ Repairable.
- ◆ Improves operator comfort and reduces fatigue.
- ◆ Meets OSHA noise requirements.
- ◆ Air Consumption 12 SCFM.
- Thrust : 340 gms. @ 300 mm, 84 db.

**ex Blow Gun EBG-1**



- ◆ High volume blow gun.
- ◆ Ergonomically designed. ◆ Repairable
- ◆ Strong, unbreakable & maintenance free.
- ◆ Upto 7 times air amplification. ◆ Light weight.
- ◆ Air Consumption 18 SCFM
- Thrust 400 gms, @ 300 mm, 93 db.

**PSH-7 + Ergonomic Blow CTF-16**



- ◆ Tough nylon construction.
- ◆ Maintenance/spare parts available.
- ◆ 10 to 20 time more life compared to conventional cheap imports.
- ◆ Repairable

**Dunnage Inflator Gun BI-25**



- ◆ Reduces inflation time of dunnage bag.
- ◆ Durable & repairable gun.
- ◆ Light weight hence Lower operator fatigue.

**PSH-7 + Real Blow Pipe RBP-5**



- ◆ High air amplification.
- ◆ Deep penetration. ◆ Repairable
- ◆ Versatile machine mountable or blow gun mountable.
- ◆ Meets international safety norms. Repairable
- ◆ Air Consumption 16 SCFM
- Thrust : 340 gms. @ 300 mm, 94 db.

**PSH-7 + Real Blow Nozzle RBA-2 & RBS-3**



- ◆ High air amplification.
- ◆ Machine mountable. ◆ Repairable
- ◆ Meets international safety norms.
- ◆ Available in Aluminium and stainless steel.
- ◆ Air Consumption upto 20 SCFM (Adjustable)
- Thrust : 250-400 gms. @ 300 mm, 99 db.

**Coolant Gun MCG-25**



- ◆ High flow design ◆ Repairable.
- ◆ Independent control of flow rate.
- ◆ Adjustable flow pattern.
- ◆ Inlet coupler available as optional accessories.

**Vac Blow Gun DHC-14**



- ◆ Unique deep hole cleaning system.
- ◆ Capable to clean blind holes from  $\phi 6$  mm to  $\phi 30$  mm & upto 300 mm depth.
- ◆ Single lever operation. ◆ Repairable
- ◆ Washable dust / chip collection bag.
- ◆ Light weight, break resistance & maintenance free.
- ◆ Air Consumption 20 SCFM.

## UNIQUE SPECIAL APPLICATION TOOLS & SYSTEMS

### Liquid Suction Unit LSU-34



- ◆ Easy suction cleaning of coolant/oil trapped in intricate parts after machining.
- ◆ Portable, low compressed air consumption.
- ◆ Operation controlled by trigger.
- ◆ Transparent container and filtered suction for trouble free operation.
- ◆ Convenient Drain valve.

### Siphon Spray Nozzle SSN-25



- ◆ Ergonomic spraying system for foundries, lubrication spraying, cleaner spraying etc.
- ◆ Adjustable spray volume.
- ◆ Adjustable liquid volume, fixed air volume.
- ◆ Corrosion resistant anodized aluminum construction

### Coolant Spray Nozzle CSN-07



- ◆ Excellent tool for saving on coolant while machining.
- ◆ Excellent tool cooling using minimum amount of coolant.
- ◆ Adjustable mist level.
- ◆ Adjustable air + coolant ratio.
- ◆ Flexible stay put tube to targeted spraying.

### Cable & Tube Wiper, Real Wipe CWR-16



- ◆ Wipe dry cables and tube, using compressed air.
- ◆ Openable design for quick install.
- ◆ Uniform 360° air flow uniform cleaning
- ◆ Adjustable flow and thrust.
- ◆ Saves air and cost over conventional drying.
- ◆ Available in 8 mm, 12.7 mm, 20 mm, 22 mm, 25 mm, 30 mm, 75 mm, 100 mm, 125 mm, 150 mm, 175 mm, 225 mm and 275 mm. special size available against specific order.

### Vac in Line VIL



- ◆ High volume air blow, low noise.
- ◆ Portable conveying system for upto 150 kg/hr.
- ◆ Can be used for conveying plastic pallets, small parts, food grain, husk, sugar & Ventilate smoke, Vapours.
- ◆ Available in aluminum and stainless steel construction.
- ◆ Wide range of sizes from 12 mm upto 150 mm throat diameter
- ◆ Used for blower / ventilator.

### Chip Shield and Extensions tubes

**NEW**



- ◆ Extension tubes are available from 50 mm to 600 mm long
- ◆ Extends reach of blow nozzle for difficult to reach area.
- ◆ Chip shields are made from tough polycarbonate and prevents ricocheting chips from causing injuries to operator.
- ◆ Extension tube and chip shield is optionally available for all suitable guns and nozzles.

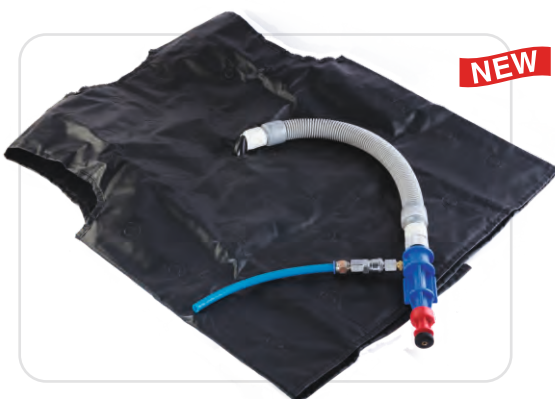
### Real Blow Super High Thrust Nozzle **SHTB-7**



- ◆ Air amplification upto 2 times
- ◆ Very high thrust.
- ◆ Used in woven sacks and textile machine cleaning, forging, shell core cleaning, road cleaning.
- ◆ Air consumption 37 CFM @ 5.5 bar Thrust : 1500 gms @ 300 mm

### Vortex Tube based Personal Cooling Vests

**NEW**



- ◆ Designed to provide comfort to operator where air conditioning is not possible.
- ◆ Uses only compressed air to provide cooling and comfort.
- ◆ Does not restrict movement.
- ◆ Higher air movement enhances body evaporative cooling efficiency.
- ◆ Universal size vest, adjustable cold air temperature by knob.
- ◆ Can be worn under protective clothing.

### High Flow Quick Release couplers

**NEW**



- ◆ Unique high flow Quick release couplers for liquid and air.
- ◆ Durable brass construction.
- ◆ Available in 1/4", 3/4" and 1/2" BSP.

### Liquid Suction Unit **LSU-25**

**NEW**



- ◆ Compressed air operated, built in spill prevention.
- ◆ Fits on 280 mm diameter standard drum/pail.
- ◆ Supplied with steel pail of 20 liters.



## HOUSEKEEPING, COLLECTING, AIR PREPARATION

### Vac Blow gun VBG-14



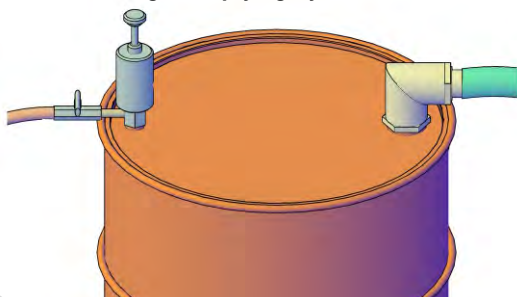
- ◆ Two in one vacuum cum blow gun.
- ◆ Repairable
- ◆ Strong unbreakable.
- ◆ Low cost, zero maintenance.
- ◆ Washable dust collection bag.
- ◆ Wide application for cleaning and collection.

### Barrel Emptying System RAPFLO-17



- ◆ Compressed air operated barrel emptying system.
- ◆ Suitable for plastic barrel and steel barrel.
- ◆ Very low compressed air consumption.
- ◆ Built in safety valve for over pressure protection.
- ◆ No motor, no spark or motor burn out.
- ◆ Available in all SS or economical steel + plastic construction.

### Barrel Filling & Emptying System RAPFLO-16



- ◆ Compressed air operated barrel filling and emptying system.
- ◆ Suitable for steel barrel only.
- ◆ Instant mode change with overfill protection.
- ◆ All stainless steel and economical stainless steel + plastic construction.
- ◆ Very low compressed air consumption.

### MOISTURE SAPERATOR WITH PREFILTER WOMS-25



**NEW**

- ◆ Point of use water and mist separator with 1 micron prefilter with 80% efficiency.
- ◆ Provides excellent quality clean air to devices.
- ◆ Not a replacement of referigerant / desiccant air drier. As it does not reduce dew point temperature.
- ◆ Very low maintenance, long filter element replacement interval of 2 years and 3 year for filter element.
- ◆ No electricity required.

## VORTEX TUBES

### VORTEX TUBE



#### What is a General Imsubs Vortex Tube ?

The General Imsubs Vortex Tube is an effective, low cost solution to a wide variety of industrial spot cooling and process cooling needs. Compressed air is injected into the vortex tube, flows at a rate of up to 1,000,000 RPM towards the 'hot' end of the tube. Once this hot air reaches the end, a small amount is exhausted through a control valve. The rest of the air is forced backwards towards the other end and exits as 'cold' air. The Vortex Tube can decrease temperatures by ~115°F (46°C) and raise temperatures up by ~200°F (93°C) from the initial inlet air temperature. Vortex tubes are available in three sizes, Small, Medium & Large depending upon compressed air consumption.

#### Advantage of Vortex tube

- Instantaneous cold stream of air.
- No RF interference.
- Low cost of ownership
- Very low space requirement.
- Stainless Steel construction.
- Available in two sizes – Small, Medium & Large
- Enhances reliability and durability of equipment
- Adjustable flow rate.
- Maintenance free as there is no moving parts.

#### Applications or Vortex Tube

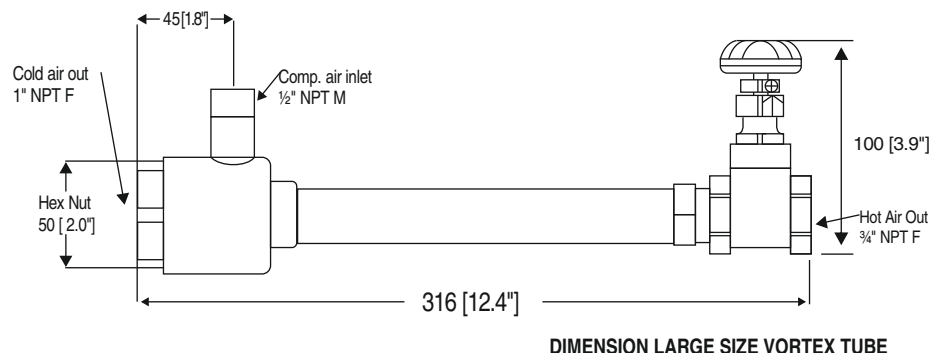
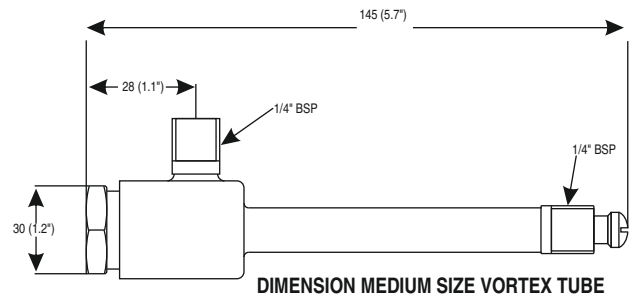
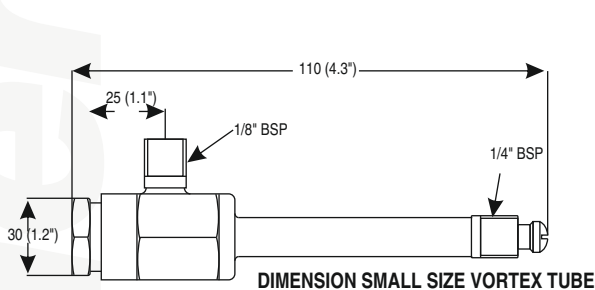
- Heat sealing machines
- Sewing machine needle cooling
- Tools and plastic grinding and machining
- Molded component cooling
- Laboratory instrument / chambers cooling.
- Ultrasonic welding horn cooling
- Dry machining
- Camera cooling in spray drier, induction furnaces and such applications.

#### PERFORMANCE :

Performance mentioned here is at tube being set to maximum refrigeration. Air flow is at 7 bar (100 PSI) pressure.

MODEL	RHL-002	RHL-004	RHL-008	RHL-010	RHL-015	RHL-025	RHL-030	RHL-040	RHL-050	RHL-075	RHL-100
CFM	2	4	8	10	15	25	30	40	50	75	100
LPM	57	113	226	285	425	710	850	1135	1415	2123	2830
BTU/Hr	120	215	500	600	900	1500	2000	2800	3000	4500	6000
Kcal/Hr	30	55	125	150	225	380	500	700	755	1125	1500
SMALL VORTEX TUBE				MEDIUM VORTEX TUBE				LARGE VORTEX TUBE			

Vortex tubes are factory set at maximum refrigeration. Depending on operating conditions, temperature drop of compressed air is around 30° C



## CABINET COOLERS



### CABINET COOLER

#### PERFORMANCE :

Performance mentioned here is at cabinet cooler being set to maximum refrigeration.  
Air flow is at 7 bar (100 PSI) pressure.

General Imsubs, Vortex based cabinet coolers are compact, quick install and maintenance free solution to heating problem often faced in control panels. General Imsubs cabinet coolers are made from Stainless steel and they do not affect safety of panel cabinets. General Imsubs cabinet coolers are available with thermostat control or continuous operation type.

General Imsubs Cabinet coolers are provided with pressure relief valves so that safety of panel cabinet is not affected. Cabinet coolers are available in various cooling capacity from 55 to 700 Kcal/Hr (215 to 2800 Btu/H). Multiple cabinet coolers can be coupled to achieve higher cooling capacities. General Imsubs cabinet coolers are IP65 certified.

MODEL	CC-004	CC-008	CC-010	CC-015	CC-025	CC-030	C-040
CFM	4	8	10	15	25	30	40
LPM	113	226	285	425	710	850	1135
BTU/Hr	215	500	600	900	1500	2000	2800
Kcal/Hr	55	125	150	225	380	500	700

Cabinet coolers are advised to be used with appropriate drier, where compressed air due point temperature is lower than -25° C to ensure safety of control panel.

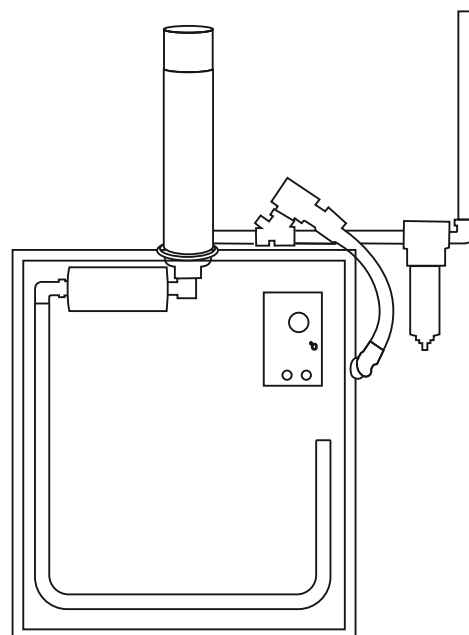
Cabinet coolers are supplied with air distribution kit and customer can optionally order suitable air filters.

#### Available options:

Selection of Cabinet coolers depends on application and customer requirements. We supply cabinet coolers with following options.

#### Additional Options / Accessories

1. Air filter
2. Side mounting kits.
3. Temperature control kit with solenoid valve  
(Requires AC power supply)



Schematic representation

## COLD AIR GUNS

### COLD AIR GUN



Cold air gun utilized vortex tube to provide dry cool air for spot cooling dry machining and many other such application.

Cold air guns utilizes available compressed air on shop floor and gives stream of cold air which could have temperature 40 ° C lower than input compressed air temperature.

Cold air guns has no moving parts hence practically zero maintenance. Its magnetic base allows quick and easy installation

Cold air guns are known to increase tool life and machining speed while machining plastics, brass, wood and other material which must be machined dry.

#### Features:

- ♦ Instant installation and portable, can be shifted to machine instantly.
- ♦ Adjustable cold fraction / company set cold fraction.
- ♦ Flexible, stay put hose for precise targeting of cold air.
- ♦ Two outlet hose available against specific orders.
- ♦ Dramatically increases tool life and improves tolerances.
- ♦ Cold air stream blows off chips hence post cleaning may not be required.
- ♦ Powerful magnetic base to hold cold air gun at desired location.

#### Application:

- ♦ Dry Machining of plastic, brass and composite materials.
- ♦ Grinding, drilling and sharpening operations.
- ♦ Mold, dies cutting edge cooling.
- ♦ Cooling of adhesive, solders and weld seams.
- ♦ Spot cooling requirements.

#### PERFORMANCE :

Performance mentioned here is at cold air gun being set to maximum refrigeration. Air flow is at 7 bar (100 PSI) pressure.

MODEL	CAG-004	CAG-008	CAG-010	CAG-015	CAG-025	CAG-030	CAG-040
CFM	4	8	10	15	25	30	40
LPM	113	226	285	425	710	850	1135
BTU/Hr	215	500	600	900	1500	2000	2800
Kcal/Hr	55	125	150	225	380	500	700



**General Imsubs P. Ltd.**

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