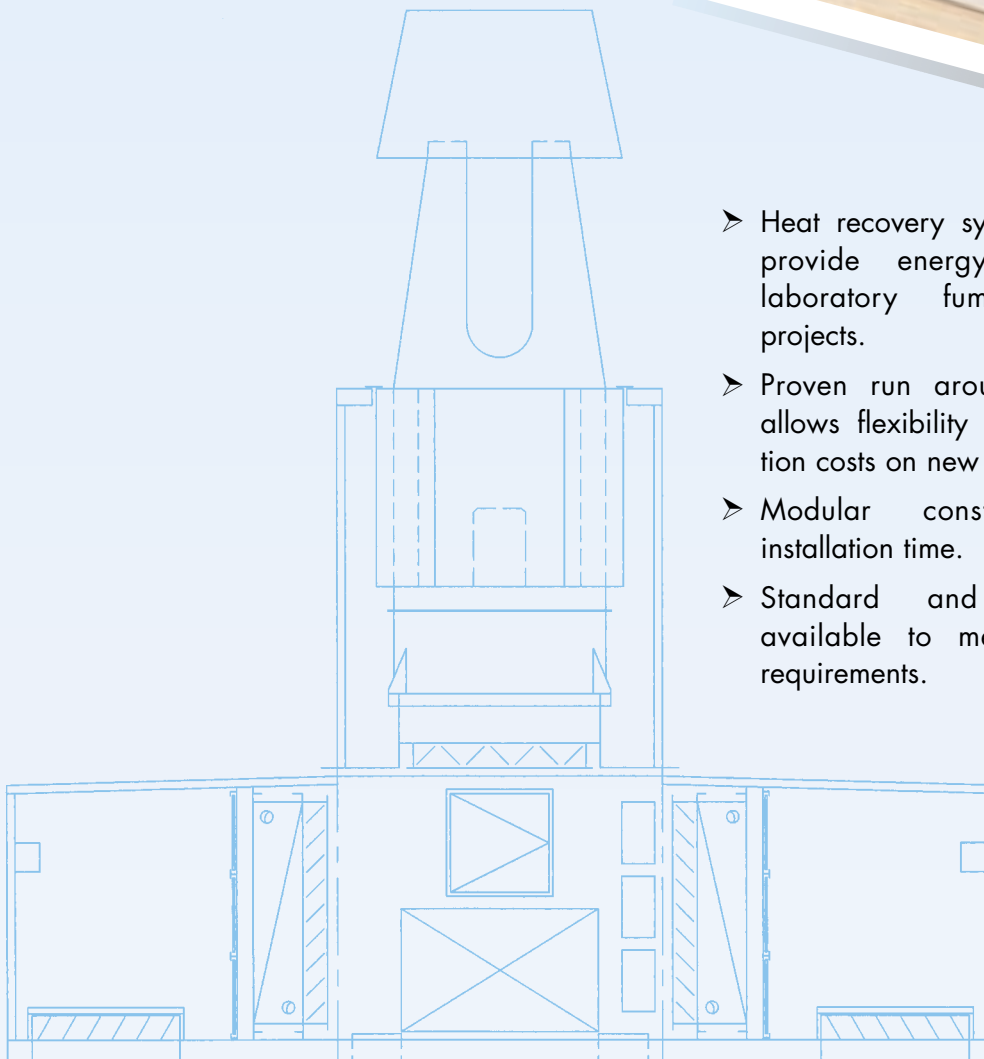


Laboratory Exhaust Energy Recovery Applications

LOWER OPERATING COSTS ON LAB VENTILATION SYSTEMS WITH ENERGY RECOVERY PLENUMS

CAPTURE THE ENERGY BEING EXHAUSTED FROM YOUR BUILDING



- Heat recovery systems by Strobic Air provide energy conservation on laboratory fume hood exhaust projects.
- Proven run around coil technology allows flexibility and minimal installation costs on new and retrofit projects.
- Modular construction minimizes installation time.
- Standard and custom designs available to meet specific project requirements.

Modular Construction saves installation time and assures on time completion



7:30 am Trucks and cranes arrive on site. Installation begins after crane is in place.



9:30 am First lift begins, modular construction minimizes field work and crane lifts. Components lifted directly from truck and set in place on roof.



2:30 pm All components in place, crane and trucks have left job site. Only bolting off remains to finish installation.

One day, one crane, several trucks and a handful of men, that's all that was required to install the energy recovery plenum and Tri Stack fans.

BENEFITS

- Short payback periods
- Flexible plenum layouts to accommodate building requirements
- Most components accessible from outside reducing need to perform maintenance inside plenum.
- Double wall insulated casing minimizes heat loss and provides additional strength

MULTIPLE PLENUM ARRANGEMENTS

SMALL

5,000-10,000 CFM

Roof Top
Side Inlet
Redundant Fan

MEDIUM

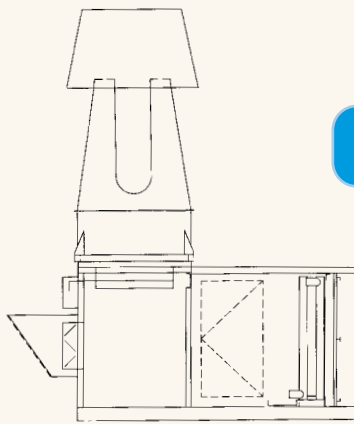
20,000-50,000 CFM

Two or Three Fans, Roof Top,
Double Sided Inlets, Bottom Duct
Connection, Internal Pipe Chase,
Insulated Housing

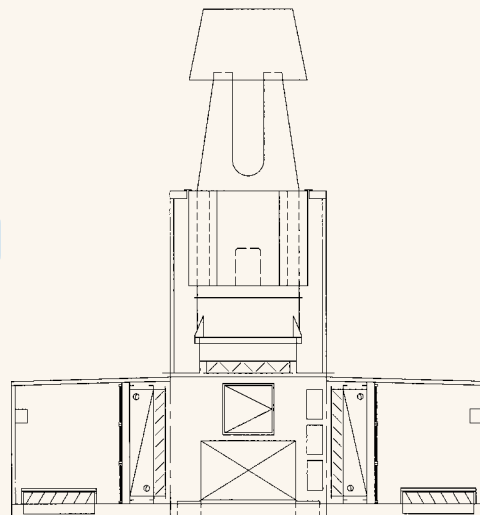
LARGE INDOOR

50,000-180,000 CFM

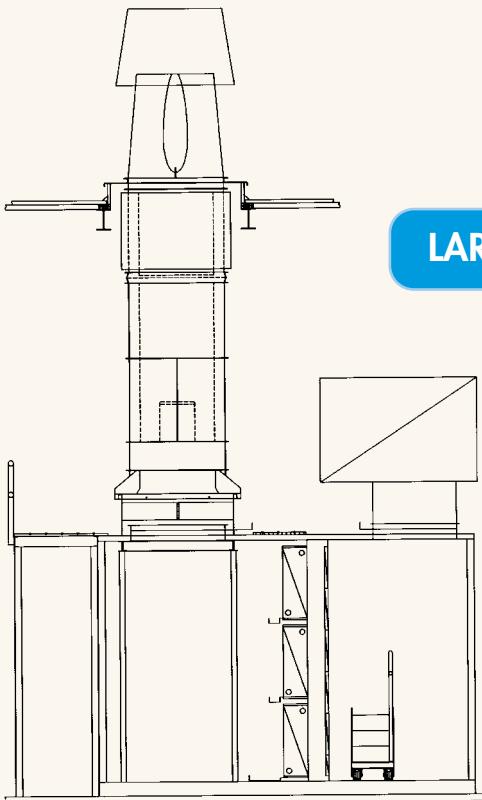
Three or Four Fans, Plenum, Fan
Housing, Extension Spool Piece
& Sound Attenuator Indoors,
Discharge Nozzle Outdoors,
Insulated Casing



SMALL



MEDIUM



LARGE INDOOR

SELECTION INFORMATION AND CONSTRUCTION DETAILS

PLENUM SELECTION INFORMATION REQUIRED:

- Number of plenums required
- Tri Stack model number
- Number of fans per plenum
- Future fan requirement
- Total exhaust air volume
- External static pressure
- Plenum location
 - Outdoor
 - Curb mounted
 - Steel or dunnage
 - Indoor
- Exhaust duct configuration
 - Side inlet
 - One side
 - Two sides
 - Bottom inlet
- Run around coil requirements
- Exhaust air (DB/WB)
- Outside air design conditions
 - Winter
 - Summer
- Glycol type and percentage
- Internal pipe chase required
- Filtration
- Coil Pull
 - Side coil pull
 - Front access
- Bypass Damper
 - Is specific location required? (yes/no)
- Sound attenuation required? (yes/no)

CONSTRUCTION DETAILS:

CASING

- 2" double wall construction
- 16 gauge painted galvanized exterior
- 20 gauge painted galvanized steel or stainless steel interior
- Walls insulated with 2" 3# density rigid urethane foam insulation
- Structural support steel provided at all load bearing points
- Interior and exterior surfaces painted with matching paint system as Tri Stack fans.
- Stainless steel surfaces not painted.

Tri-Stack Generation III roof exhaust systems...

First we invented the technology.
Then we perfected it.

For design/applications tips, visit our web site:
www.strobicair.com or www.met-pro.com/strobic.html
E-mail: tristack@strobicair.com

FLOOR

- 2" double wall construction
- Uppers surface from 12ga. painted steel plate or stainless steel, with solid welded seams
- Floors insulated with 2" 3# density rigid urethane foam insulation

BASE

- 6" or 8" structural steel base rails
- 6" or 8" structural steel intermediate supports
- 4 to 6 lifting lugs per shipping section
- 20 gauge galvanized under skin

EQUIPMENT

- Return air inlet opening
- 2" 30% pre-filters, side pull or front loading
- Magnehelic filter gauge
- Access doors provided matching unit construction
- Heat recovery coils
- 5/8" x .020 Cu tubes
- .008 Alum fins
- 304 Stainless steel casing
- 8 Row/12 FPI
- Electro fin baked epoxy phenolic coating
- Emergency drain pans provided (304 SS)
- Airfoil fan isolation dampers (low leakage aluminum construction with epoxy coating)
- Airfoil bypass dampers (low leakage aluminum construction with epoxy coating)
- Electronic actuators in NEMA 3R
- Bypass hoods provided with bird screens
- Optional: 120V electrical package
- (2) Incandescent marine lights wired to a (1) weatherproof light switch and a (1) single receptacle per section
- All wiring shall terminate in a fused disconnect for a "1 point" 120V field connection (by others)



160 Cassell Road, P.O. Box 144
Harleysville, PA 19438
Telephone: 1-215-723-4700
Toll Free: 1-800-SAC-FANS
Fax: 1-215-723-7401