



Take advantage of technology

Intelligent Exhaust and Ventilation Systems

Tjernlund modulating draft, exhaust and combustion air systems expand your design options and adapt to changing conditions for precise control of exhaust and ventilation processes.

Architects

- Building designs not limited or dictated by needs of traditional exhaust and ventilation methods.
- Conceal exhaust terminations and eliminate unsightly chimneys, vents and louvers.
- Eliminate multiple exhaust vent roof penetrations.
- Eliminate large wall openings for make-up air louvers.
- Increase exhaust termination velocities to avoid issues with air intakes and windows.



Mechanical Engineers

- Factory sized and guaranteed vent, exhaust and combustion air system performance.
- Proven performance on a wide range of applications throughout North America.
- Route vents with no practical limitations.
- Save money by eliminating multiple vents and reducing vent diameter.
- Expand existing vent capacities for equipment upgrades and additions.
- Common vent category I and III heaters.
- Independently operate both exhaust and make-up air with a single controller.
- Automatically modulating performance allows heaters to operate at optimum efficiencies.
- Maintain constant negative pressure in common exhaust and dryer vents.



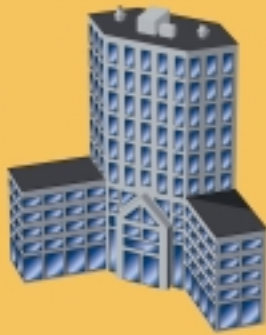
Contractors

- Fit for duty design and construction for straightforward installations.
- Color coded job site wiring and factory provided quick-connect harness.
- Easy to service.
- Outstanding factory tech support.



Tjernlund Intelligent System

Office Buildings



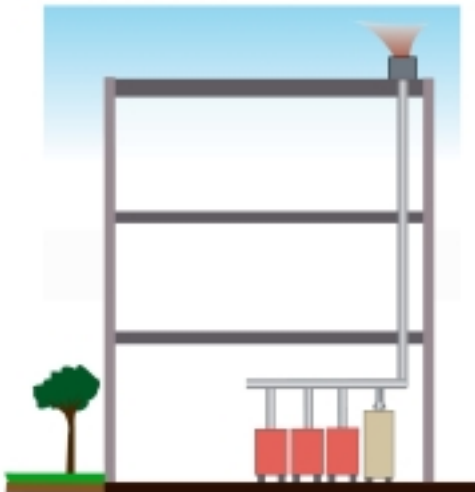
Institutional Buildings

(Schools, hospitals, prisons, military bases)



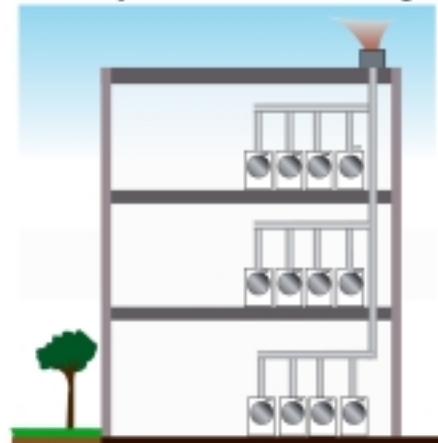
Residential High Rise Buildings

Boiler/Water Heater Draft



- Eliminate multiple chimneys and roof penetrations
- Reduce chimney diameter
- Overcome long horizontal vent connectors
- Combine atmospheric and power burners in common vent
- Common vent fan-assisted boilers/water heaters

Central Exhaust Vent Serving Multiple Clothes Dryers



- Maintain negative pressure for entire exhaust vent
- Automatically modulates to accommodate number of dryers in operation
- Eliminate backflow to adjacent floors
- Reduce exhaust vent diameter

Boiler/Water Heater Combustion Air



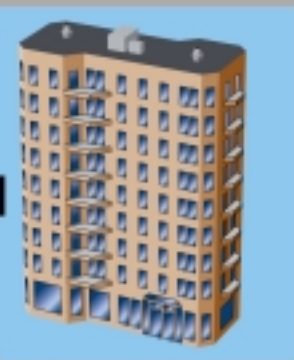
- Eliminate large louvered openings in building
- Duct combustion air from distant locations
- Maintain neutral mechanical room pressure
- Proportional, on-demand combustion air

Central Exhaust Shaft Serving Multiple Floors



- Maintain negative pressure for entire exhaust vent
- Automatically modulates to accommodate number of range hoods in operation
- Eliminate backflow to adjacent floors
- Reduce exhaust vent diameter

Systems Add Value To Buildings



Commercial Industrial Buildings



Retail Buildings



Hide Vent Terminations



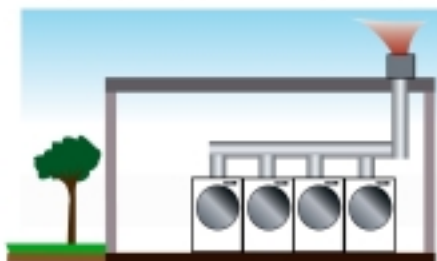
- Terminate just above roof surface
- Hide vent terminations behind parapet walls
- Increase discharge velocities of short stacks

Side Wall Vent Terminations



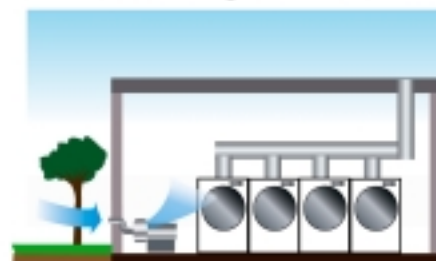
- Eliminate need for vertical chimney
- Automatically modulates to accommodate number of heaters in operation
- Automatically modulates to accommodate wind loading
- Increases design flexibility

Commercial Dryer Exhaust



- Combine commercial dryers in common exhaust duct
- Increase efficiency of common vented dryers
- Reduce exhaust duct diameter
- Overcome long horizontal exhaust ducts

Commercial Dryer Make-Up Air



- Eliminate large openings in building
- Duct make-up air from distant location
- Maintain neutral laundry room pressure
- Proportional, on-demand make-up air

Key Tjernlund System Components



CPC-3 Controller manages exhaust and supply air simultaneously



VSAD Series Auto-Draft® rooftop or sidewall mounted inducer



VSUB Series Universal Blowers install indoors or outdoors for supply and exhaust

There's no substitute for performance!



Partial List of Tjernlund System Installations

Western U.S. & Canada

- South Seattle Community College—Seattle, WA
- Larkspur Landing—Bellevue, WA
- Seattle Waterfront Marriott—Seattle, WA
- Tacoma Housing Authority, E.B. Wilson Apartment Building—Tacoma, WA
- Gonzaga McCarthy Center—Spokane, WA
- Naches High School—Naches, WA
- North Harris County Community College Central Plant—Houston, TX
- Christus Hospital—Houston, TX
- Victoria Medical Center—Victoria, TX
- Coronado Club—Houston, TX
- Hilton Garden Inn—Duncanville, TX
- Allen Public Library—Allen, TX
- Arch Diocese of Denver—Denver, CO
- Hyatt Regency—Albuquerque, NM
- Hilton Garden Inn—Rancho Bernardo, CA
- Seahaus Luxury Condos—La Jolla, CA
- Cortez Lofts—San Diego, CA
- Mission Bay Housing—San Francisco, CA
- Springstown Middle School—Vallejo, CA

Central U.S. & Canada

- Columbus International Airport—Columbus, OH
- Detroit Public School Fine Arts Building—Detroit, MI
- Fox Lake Laundry—Fox Lake, IL
- Chicago Housing Authority—Chicago, IL
- Midwest University—Chicago, IL
- Harley Davidson—Milwaukee, WI
- Field Museum—Chicago, IL
- Iowa Events Center—Des Moines, IA
- Mystic Lake Casino—Shakopee, MN
- St. Louis Armory—St. Louis, MO
- YMCA—Minneapolis, MN
- Sundra Spa—Wisconsin Dells, WI
- Peoria Civic Center—Peoria, IL
- Western Water Park—Rapid City, IA
- Mud Hens Stadium—Cleveland, OH
- Elmhurst Library—Chicago, IL
- Mazzoli Federal Building—Louisville, KY
- Majestic Theater—Chicago, IL
- Sprint—Defiance, OH
- Alton Law Enforcement Center—Alton, IL

Eastern U.S. & Canada

- Dunkin Donuts Distribution Center—Portsmouth, NH
- Yale University Smilow Field House—New Haven, CT
- Temple Israel Synagogue—Kingston, NH
- Naval Station Admiral Nimitz Hall—Newport, RI
- Opryland Hotel—Nashville, TN
- Federal Courthouse—Nashville, TN
- Historic Mount Vernon Inn—Alexandria, VA
- Maryland Institute of Art—Baltimore, MD
- Marriott Key Bridge—Washington, DC
- Gracie (Mayor's) Mansion—NYC, NY
- Saddle Brook Police Department—Bergen County, NJ
- Brio Tuscan Grille—Lake Park, FL
- Y.M.C.A.—Muscle Shoals, AL
- The Sanctuary—Kiawah Island, SC
- Laurel Park Race Track—Laurel, MD
- Public Library—Leominster, MA
- Univ. of AL Athletic Facility—Tuscaloosa, AL
- First Baptist Church—Pontotoc, MS
- Metro-Suburban Bus Authority—Garden City, NY

Details on Tjernlund Specified Systems are available at www.tjernlund.com or from your Tjernlund representative.



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