Tjernlund Ventilation Products

- Boost airflow in ducts
- Exhaust radon gases from home
- Exhaust air to the outside
- Increase chimney draft
- Move heat or A/C room-to-room or level-to-level
- Reduce crawl space & basement moisture/odors
- Bring fresh air into home
- Reduce lint & dry clothes faster

Innovative solutions for common ventilation problems
Ventilates excess moisture: a cause of mold, mildew and wood rot

Helps vent radon, treated wood off-gassing and odors that might otherwise migrate into living areas. UnderAire fans are the only crawl space ventilators with a special “suitable for damp locations” ETL listing.

How to determine the number of UnderAire™ Ventilators needed:
Calculate the cubic area of the crawl space by multiplying the length x width x height. Divide this number by 15 to determine the minimum CFM necessary to fully ventilate the space in 15 minutes. Example: 20’ long x 40’ wide x 3’ high crawl space = 2,400 cubic ft. 2400 cubic ft. ÷ 15 minutes = 160 CFM of ventilation. Choose two V1 or V1D ventilators or one V2D ventilator.

<table>
<thead>
<tr>
<th>Crawl Space Exhaust</th>
<th>Crawl Space Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>V2D</td>
</tr>
<tr>
<td>Performance</td>
<td>220 CFM</td>
</tr>
<tr>
<td>Motor</td>
<td>2 @ 120/1/60 0.60 amps</td>
</tr>
<tr>
<td>Dehumidistat</td>
<td>Off/On 20-80% RH</td>
</tr>
<tr>
<td>Freeze Protection</td>
<td>Opens at 40°F</td>
</tr>
<tr>
<td>Dimensions*</td>
<td>18” x 9” x 2”</td>
</tr>
</tbody>
</table>

* Installs behind existing passive vent openings. Face plate trimmable.

The CS-Series Fresh Air Supply Fans for Crawl Spaces are designed to boost fresh outdoor air underneath homes and porches. Use in conjunction with V-Series Crawl Space Exhaust Fans to remove moisture in Crawl Spaces with too few or undersized passive vent openings, overall lengths of over 40 feet, or in “dead zones” or stagnant areas that are not served by existing foundation vents.

XchangeR™
Reversible Basement Ventilation Fans
Cure Damp-Musty Basements

Many homes have basements that are stale, musty or smelly because of:
- Seasonal water issues
- Sump pits & floor drains
- General lack of air exchange

The musty smell that many basements have is caused by off-gassing of molds that thrive when relative humidity is in excess of 60%.

Reversible XchangeR Basement Fans are the economical and simple way to automatically ventilate your basement to eliminate odors and reduce humidity.

Uses only 40 watts compared to over 1,000 watts for the typical dehumidifier. Save over $100 per year in electrical costs.

Also great for garages, storage areas, cabins and workshops

Three Air Flow Options
Easily reverse the direction of the airflow to:
1. Exhaust musty air
2. Supply fresh air
3. Position one fan in each direction for balanced air exchange

Volt 120
Watts 20 40
Amps 0.3 0.6
CFM 90 180

Model X2D & X2R 1 Fan 2 Fans
RADON VAC™
Side Wall Radon Mitigation System

The Effective and Affordable Solution for Existing Homes

Protect Your Home and Family From Radon

The EPA estimates that 20,000 deaths each year are radon related making it the second leading cause of lung cancer deaths. The most common solution to reduce radon exposure is through fan-powered mitigation systems.

Side Wall Venting is Safe, Simple, Subtle and Saves!

Tjernlund has developed the first engineered solution for Side Wall Venting radon gas. System includes: Sealed blower with 3" PVC connectors and a patented high velocity discharge hood.

Avoid Ugly, Intrusive Pipe Runs and the Costs and Hassles of Running PVC Through the Roof

Compact, High Velocity
D-STRAT™ Fans
DSF2-Series

The Problem:
Stratification in high ceiling warehouse and commercial spaces creates huge temperature differentials between the ceiling and the occupied floor level. It is typical for a differential of 20 degrees or more to exist.

The Solution:
D-STRAT 30 watt, 540 CFM fans can reduce this differential by 50% or more, shorten thermostat cycles, reduce heating costs and make occupants more comfortable.

Features:
- Costs less than ½ cent per hour to operate based on average U.S. electrical rates
- Unlike conventional paddle blade fans, compact D-STRAT Fans have no moving blades to be seen or bumped into. The 2000 FPM discharge velocity moves air effectively in a defined column to the floor area. Quiet, 1.5 Sone fans can be used in office areas and other noise sensitive environments.
- Compact design can be installed between roof trusses for full access to upper level storage racking. Heavy gauge swivel mount allows fan to be aimed to avoid obstructions, focused on work areas or directed at entry areas to spot dry wet floors.
- Integral fire safety switch disrupts fan operation if ambient temperatures exceed 196°F.

Also Available:
4" BOOSTER FAN

The PVC4 fan connects directly to Schedule 40 PVC and can be used as a booster fan in passive Radon mitigation systems or as a general utility fan with 4" PVC.

Model PVC4

<table>
<thead>
<tr>
<th>Volts</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watts</td>
<td>15</td>
</tr>
<tr>
<td>Amps</td>
<td>0.2</td>
</tr>
<tr>
<td>CFM</td>
<td>80</td>
</tr>
</tbody>
</table>

Perfect for:
- Gyms
- Pole Barns
- Warehouses
- Agricultural Buildings
- Factories
- Grocery Stores
- Big Box Stores
- Wet Floor Drying
Dryer Duct Booster®
Model LB2

Dramatically reduces drying times, lint build-up and saves energy

Typically, when a dryer's exhaust duct run is over 25 equivalent feet moist air cannot effectively exit to the outside—bogging down the entire drying process, resulting in increased drying time and energy costs.

The Dryer Duct Booster® surpasses existing dryer duct fans with features including:

- The Lint Blitzer blower wheel. Unlike in-line fans which will clog with lint, the Lint Blitzer blower wheel is designed to repel lint while providing optimum velocity.
- 5-year no-clog, no-maintenance guarantee.
- Save energy by reducing drying times up to 60%.
- Easy plug-in installation, automatic operation.
- Status panel visibly confirms fan is working properly.

The Dryer Duct Booster maintains proper exhaust velocities in duct runs up to 150 equivalent feet, optimizing dryer performance.

* For equivalent feet 90° elbows equal 5 feet and 45° elbows equal 2.5 feet.

Meets UL 705 DEDPV Requirements.

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts</th>
<th>Watts</th>
<th>Amps</th>
<th>CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB2</td>
<td>120</td>
<td>50</td>
<td>0.5</td>
<td>160</td>
</tr>
</tbody>
</table>

Draft & Ventilation Problem Solvers for Hearth & Home

Auto-Draft® Inducers

- Solve draft problems for solid fuel and gas fireplaces and stoves.
- Overcome chimney design problems like small, short or offset flues.
- Adjustable fan speeds maximize combustion efficiency.

Chimney Top Fans

Models RT750H & RT1500H

Fans mount easily to either tile lined or metal flues. Patented auxiliary cooling system protects motor from heat. Self-cleaning, backward-inclined stainless steel fan blades repel soot build-up. Model RT750H (up to 750 CFM) for hearth openings up to 14 ft². RT1500H (up to 1500 CFM) for openings up to 28 ft². Includes speed control.

In-Line Stove Fan

Model AD-1

Helps fires start quickly and eliminates smoke puff back when refueling. Mounts indoors on vertical or horizontal stove pipe.

Model AD-1 is the economical solution for stoves with flue outlet diameters from 5” to 8”. Includes speed control.

Hot Shot™ Universal Stove Blower

WARMS ROOMS 5 TIMES FASTER

- Increase comfort, burn less wood & warm rooms faster.
- Capture heat off top of stove & direct air flow left or right up to 45º.
- Ultra quiet, energy efficient blower.
### AireShare Transfer Fans

**Share Air Room-To-Room or Level-to-Level**

Tjernlund’s AireShare transfer fans move air to rooms that are too hot or cold. Quiet and low-profile, conditioned air moves through the wall or ceiling/floor to provide comfort.

- Blends with any décor
  - Classic grille and sleek diffuser
  - No exposed electrical cords
- Whisper quiet operation
  - Low sone cross flow blower
- Easy to install
  - Quickly installs in interior finished walls or ceilings and floors

**50% Quieter than any other Transfer Fan**

### Duct Booster Fans

- Boost air flow in hard to heat or cool rooms
- Model DB-2 features motor outside of airstream & fits in round or rectangular ducts
- Easy installation in both metal and flex duct (EF-Series only)
- Optional speed and Duct Airstat operating controls (see back page)
- Quiet, smooth operation

### The Differences:

- Heavy gauge housing
- Stronger motor than the competition
- Better performance, higher velocity (works against higher pressure drops)
- Higher temperature rating (150°)
- Quieter (lower RPM, same performance)

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Specifications</th>
<th>CFM @ 200°F</th>
<th>CFM @ 150°F</th>
<th>CFM @ 100°F</th>
<th>CFM @ 50°F</th>
<th>CFM @ 25°F</th>
<th>CFM @ 20°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-2, 6&quot; Duct</td>
<td>120V 1/70 HP .51A</td>
<td>200</td>
<td>150</td>
<td>100</td>
<td>95</td>
<td>275</td>
<td>220</td>
</tr>
<tr>
<td>DB-2, 8&quot; Duct</td>
<td>120V 1/100 HP .60A</td>
<td>275</td>
<td>220</td>
<td>180</td>
<td>160</td>
<td>325</td>
<td>250</td>
</tr>
<tr>
<td>EF-6</td>
<td>120V 30 Watt .40A</td>
<td>180</td>
<td>150</td>
<td>100</td>
<td>90</td>
<td>250</td>
<td>200</td>
</tr>
<tr>
<td>EF-8</td>
<td>120V 56 Watt 1.10A</td>
<td>325</td>
<td>300</td>
<td>250</td>
<td>200</td>
<td>475</td>
<td>400</td>
</tr>
<tr>
<td>EF-10</td>
<td>120V 1/100 HP .60A</td>
<td>475</td>
<td>400</td>
<td>325</td>
<td>275</td>
<td>875</td>
<td>700</td>
</tr>
<tr>
<td>EF-12</td>
<td>120V 1/25 HP 1.30A</td>
<td>875</td>
<td>800</td>
<td>700</td>
<td>600</td>
<td>1200</td>
<td>1100</td>
</tr>
<tr>
<td>EF-14</td>
<td>120V 1/15 HP 2.17A</td>
<td>1200</td>
<td>1100</td>
<td>1000</td>
<td>900</td>
<td>1500</td>
<td>1200</td>
</tr>
</tbody>
</table>

### Register Duct Booster

- The ultra-quiet Register Booster fans are ideal when the duct run serving the room is not accessible to install a standard In-Line Duct Booster® fan. Plugs into a standard 120 VAC outlet. Compatible with optional SCP speed control. RB10 fits 4 x 10” & RB12 fits 4 x 12” floor registers.

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts</th>
<th>Watts</th>
<th>Sones</th>
<th>CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB10</td>
<td>120</td>
<td>20</td>
<td>1.4</td>
<td>75</td>
</tr>
<tr>
<td>RB12</td>
<td>120</td>
<td>20</td>
<td>1.4</td>
<td>75</td>
</tr>
<tr>
<td>RB10 &amp; RB12 – Brown Grille</td>
<td>120</td>
<td>20</td>
<td>1.4</td>
<td>75</td>
</tr>
<tr>
<td>RB10W &amp; RB12W – White Grille</td>
<td>120</td>
<td>20</td>
<td>1.4</td>
<td>75</td>
</tr>
</tbody>
</table>
High Performance
In-Line Duct Booster® Fans

Versatile and durable Tjernlund M & P-Series exhaust fans feature high pressure air handling performance with low noise and extremely low power usage. These fans are ideal for long duct runs or air supply and exhaust applications requiring exacting performance. Use them as super quiet bathroom and spa exhausters to eliminate fogged mirrors and odors. Also great for exhausting high moisture areas such as hydroponic grow rooms or for sub-slab radon gas mitigation. All models come with 120V power cord. Use optional SCP plug-in speed control to fine tune performance.

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts</th>
<th>Watts</th>
<th>Amps</th>
<th>CFM</th>
<th>0°</th>
<th>Duct Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-4</td>
<td>120</td>
<td>100</td>
<td>0.9</td>
<td>200</td>
<td>4&quot;</td>
<td></td>
</tr>
<tr>
<td>M-6</td>
<td>120</td>
<td>125</td>
<td>1.1</td>
<td>530</td>
<td>6&quot;</td>
<td></td>
</tr>
<tr>
<td>M-8</td>
<td>120</td>
<td>210</td>
<td>1.8</td>
<td>670</td>
<td>8&quot;</td>
<td></td>
</tr>
<tr>
<td>M-10</td>
<td>120</td>
<td>260</td>
<td>2.1</td>
<td>810</td>
<td>10&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Applications:
- Duct Booster® Fan
- Outdoor air supply
- Spot ventilation
- Bathroom exhaust
- Warehouse/pole Barn exhaust
- Hydroponic grow rooms

Fresh Air IN-FORCER™

The IN-FORCER mechanically draws outside air indoors to dilute pollutants and replace stale air without sacrificing energy savings.

- Affordably priced and installs fast. Plugs into electrical outlet.
- Reduces cold drafts through windows, doors, fireplaces caused by excessive negative pressure.
- Reduces negative pressure a major cause of flue gas spillage and radon gas entry.
- Reduces moisture, mold and mildew buildup.
- Helps replace air vented by exhaust fans, fireplaces, etc.

<table>
<thead>
<tr>
<th>Model</th>
<th>Hood/Fan Diameter</th>
<th>Volts</th>
<th>Watts</th>
<th>AMPS</th>
<th>CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA4</td>
<td>4&quot;</td>
<td>120</td>
<td>18</td>
<td>.20</td>
<td>75</td>
</tr>
</tbody>
</table>

Accessories

Duct Airstat Model PS1503
Duct Airstats are used to automatically activate Duct Booster fans by sensing positive pressure in a forced air heating/cooling system. Diaphragm switch includes a built-in sampling probe which is inserted directly into the duct or plenum. Compatible with SCP and SC-1 speed controls.

Tjernlund Also Offers:
- Grilles
- Back Draft Dampers
- 120 VAC Thermostats
- 120 VAC Wireless Remote Switches

SCP Speed Control
Use to control speed of M & P Series High Performance fans or other corded fans less than 2.5 amps. Plug speed control into 120V outlet and fan into speed control receptacle.

SC-1 Speed Control
Speed control turns duct fans on and off and can vary motor RPM. SC-1 is compatible with Duct Airstat (model PS1503) and can be used with Duct Booster fan models EF-6 and EF-8. (Face plate fits model EF-6 and EF-8 electrical boxes.)