



Tjernlund Ventilation Products



**Innovative solutions for
common ventilation problems**



Ventilates excess moisture: a cause of mold, mildew and wood rot



See Crawl Space Fan Lit.

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.

Crawl Space Supply Fans



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.

Model	Crawl Space Exhaust			Crawl Space Supply	
	V2D	V1D	V1	CS1	CS2
Performance	220 CFM	110 CFM	110 CFM	110 CFM	220 CFM
Motor	2 @ 120/1/60 0.60 amps	120/1/60 0.30 amps	120/1/60 0.30 amps	120/1/60 0.30 amps	2 @ 120/1/60 0.60 amps
Dehumidistat	OFF/ON or 20-80% RH	OFF/ON or 20-80% RH	Optional Model DH10 dehumidistat available separately	Optional Model DH2P available or control with V2D or V1D dehumidistat	
Freeze Protection Thermostat	Opens at 40°F	Opens at 40°F	Opens at 40°F	Opens at 40°F	Opens at 40°F
Dimensions*	18" x 9" x 2"	18" x 9" x 2"	14 3/8" x 6 7/8" x 2"	18" x 9" x 2"	18" x 9" x 2"

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

XCHANGER™

Reversible Basement Ventilation Fans Cure Damp-Musty Basements



See XchangeR Video

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.

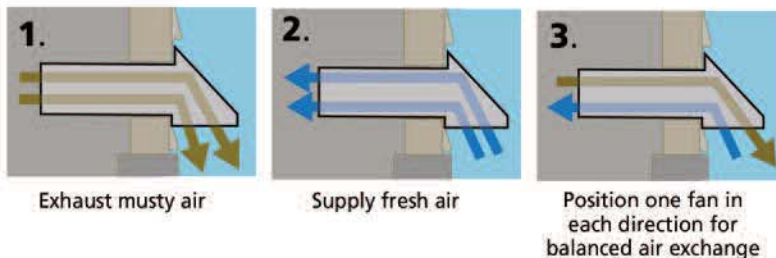
Uses only 40 watts compared to over 1,000 watts for the typical dehumidifier. Save over \$100 per year in electrical costs.

Also great for garages, storage areas, cabins and workshops



Three Air Flow Options

Easily reverse the direction of the airflow to:



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.



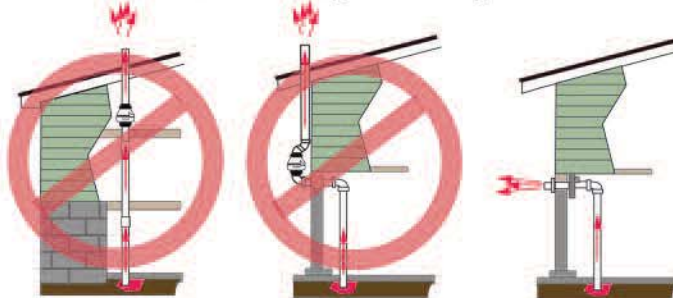
Side Wall Venting is Safe, Simple, Subtle and Saves!

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.

Model RMS160

Volts	120
Watts	50
Amps	0.5
CFM	160

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



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

Volts	120
Watts	18
Amps	0.2
CFM	80

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 Some 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.



See D-Strat Lit.

White Model DSF2W

Black Model DSF2B

Perfect for:
Gyms Pole Barns
Warehouses
Automotive Shops
Factories Grocery
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.



Suitable for gas and electric dryers.

See why the Lint Blitzer™ blower wheel has a 5-year no-clog guarantee

Go to web site www.dryerboosters.com to see a demonstration of how our Dryer Duct Booster outperforms typical in-line fans in a lint build-up test.



**Meets UL 705 DEDPV Requirements.
Complies with International Residential Code (IRC-2015).**

Model	Volts	Watts	Amps	CFM
LB2	120	50	0.5	160

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
- Eliminate problems caused by down-drafts, cold start-ups and tight construction
- Maintenance free motors withstand temperature extremes

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.



See Hearth Products Lit.

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**



Model SB1

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



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 sonic cross flow blower
- Easy to install
 - Quickly installs in interior finished walls or ceilings and floors

Room-to-Room

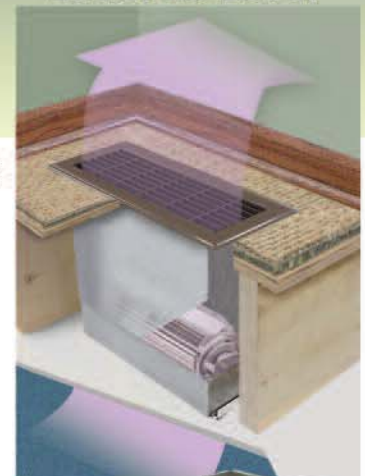


Models AS1 (Hard Wired)
AS1P (Concealed Power Cord)

Perfect for homes, condos, hotels & buildings with:

- Split systems, PTAC & window A/C
- Space heaters, fireplaces, stoves & electric baseboard
- Rooms or levels with uneven temperatures

Level-to-Level



Model AS2

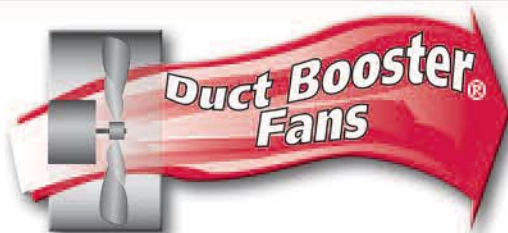
Model ASLL

Model	Volts	Watts	CFM	Speed	A* Sones	B* Sones
AS1	120	20	60	Fixed	1.2	1
AS1P	120	20	60	Fixed	1.4	1
ASLL	120	20	70	Fixed	1.2	1
AS2	120	30	110	Hi	1.5	1
A* Sones: Intake Room		21	95	Med	1	<1
B* Sones: Target Room		16	80	Low	<1	<1

50% Quieter than any other Transfer Fan



See AireShare Lit.



Your best value for boosting air flow in ducts or for powered air intakes and exhausts

Applications:

- Duct Booster® Fan
- Bathroom Exhaust
- Outdoor Air Supply
- Warehouse/Pole Barn Exhaust
- Spot Ventilation

- Boost air flow in hard to heat or cool rooms
- Model DB-2 features motor outside of air stream & 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)



Model	Motor Specifications	Duct Length in Feet				Maximum Air Temp Degrees F
		Free Air CFM	25 Feet CFM	50 Feet CFM	75 Feet CFM	
DB-2, 6" Duct	120V 1/70 HP .51A	200	150	100	95	200°F
DB-2, 8" Duct		275	250	220	180	
EF-6	120V 30 Watt .40A	180	150	100	90	150°F
EF-8	120V 56 Watt 1.10A	325	300	250	200	150°F
EF-10	120V 1/100 HP .60A	475	400	325	275	150°F
EF-12	120V 1/25 HP 1.30A	875	800	700	600	150°F
EF-14	120V 1/15 HP 2.17A	1200	1100	1000	900	150°F

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.

Model	Volts	Watts	Sones	CFM
RB10	120	20	1.4	75
RB12	120	20	1.4	75

RB10 & RB12 – Brown Grille
RB10W & RB12W – White Grille

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.



Applications:

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



Model	Volts	Watts	Amps	CFM	Duct Dia.
				0"	
M-4	120	100	0.9	200	4"
M-6	120	125	1.1	530	6"
M-8	120	210	1.8	670	8"
M-10	120	260	2.1	810	10"

Model	Volts	Watts	Amps	CFM	Duct Dia.
				0"	
P-4	120	80	0.7	190	4"
P-6	120	130	1.15	400	6"
P-8	120	175	1.75	675	8"

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.



Model	Hood/Fan Diameter	Volts	Watts	AMPS	CFM
FAI4	4"	120	18	.20	75

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.)

Available From:



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