



Tjernlund Ventilation Products



**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.

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.

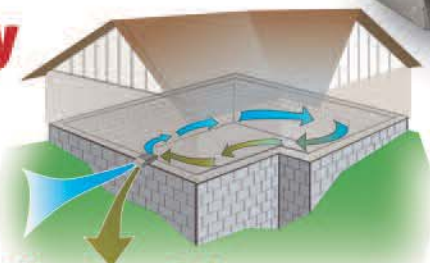
XCHANGER™

Reversible Basement Ventilation Fan

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



Also great for garages, storage areas, cabins and workshops



Model X2D
1 Fan 2 Fans

Volts	120	120
Watts	20	40
Amps	0.3	0.6
CFM	90	180

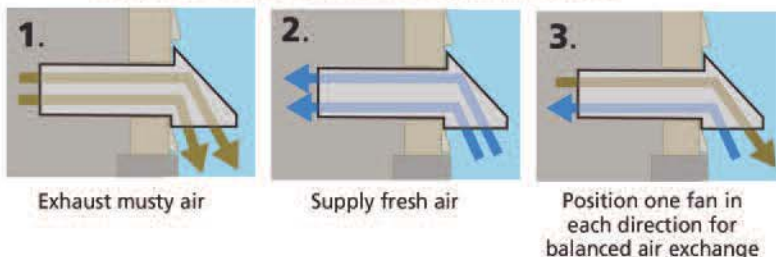
The musty smell that many basements have is caused by off-gassing of molds that thrive when relative humidity is in excess of 60%.

The Reversible Xchanger Basement Fan is 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.

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.



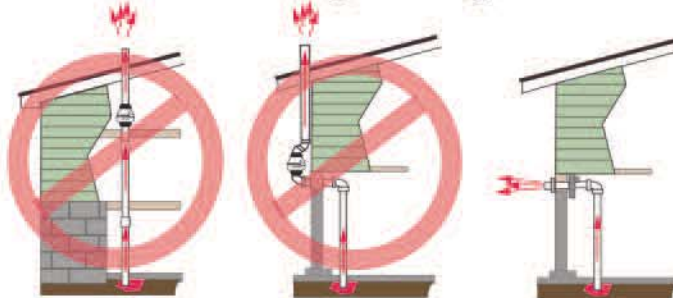
Side Wall Venting is Safe, Simple, Subtle and Saves!

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

Sure Dry™ Shower Drying Systems

Two Sure Dry™ Models Available

Tired of constant shower scrubbing and grout cleaning?

Accelerate surface drying time up to 80%. Minimize mold/mildew growth and grout damage!

Sure Dry™ systems quietly circulate dry air from an adjoining room, closet or cabinet into the shower enclosure to efficiently dry caulk, grout, tile and glass surfaces.

Don't let your new shower end up looking like this!



Thru-wall mount—air transfer from adjoining room

Remote mount—fan mounted in attic or adjoining cabinet

- Reduces use of harsh chemical cleaners necessary to clean tile and grout.
- Increases time between grout cleaning, sealing or complete re-grouting of the shower.
- Reduces mold & mildew growth on glass partition and door seals to prolong seal life.

Model	Volts	Watts	AMPS	CFM
SD140	120	40	.45	140
SD200	120	100	.90	200

Dryer Duct Booster®

Reduce drying times up to 50% in long or convoluted duct runs with the Dryer Duct Booster®

Clothes dryers are often installed in areas of homes where they cannot work effectively leading to long drying times, high energy use and lint build-up in ductwork. If a dryer's exhaust duct run is over 25 equivalent feet* moist air cannot effectively exit the dryer and exhaust to the outside—bogging down the entire drying process.

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

- The Lint Blitzer blower wheel. Unlike traditional in-line fans which can 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 50%
- Easy installation, automatic operation

The Dryer Duct Booster maintains proper exhaust velocities in duct runs up to 100 equivalent feet, optimizing dryer performance.

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

Automatic actuation control features self-cleaning dryer duct pressure sensing tube.

Rubber isolated mounting bracket eliminates vibration transfer. Rotates 360° to accommodate any mounting orientation.

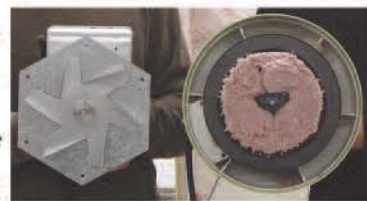
PSC, permanently lubricated ball bearing motor is not exposed to heat, lint or moisture. Uses less power than a 50 watt light bulb.

4" long dryer duct connections for easy duct attachment.

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

Go to www.dryerboosters.com

to see for yourself how our Dryer Duct Booster outperforms typical in-line fans in a lint build-up test.



Model	Volts	Watts	Amps	CFM
LB1	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.

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



Make hot or cold rooms more comfortable!

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

Room-to-Room



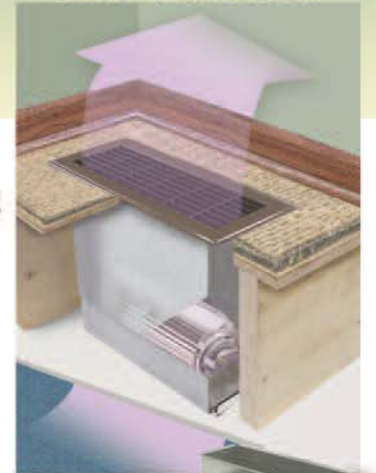
Models AS1 & AS1P

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

Choose Room to Room hard wired model AS1 or concealed power cord model AS1P

Level-to-Level

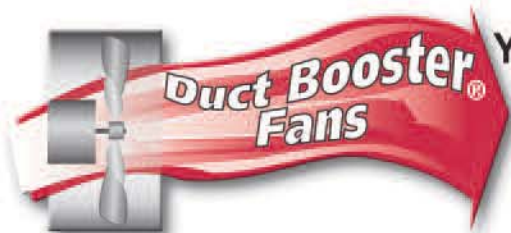


Model ASLL

50% Quieter than any other Transfer Fan

Models AS1, AS1P, ASLL

Volts	120	CFM	75
Hertz	60	Sound	AS1= 42dB (1.15 Sones)
Amps	0.50 Maximum		AS1P= 45dB (1.42 Sones)
Watts	25		ASLL= 42dB (1.15 Sones)



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

- 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)



Applications:

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

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, EF-6Auto*	120V 30 Watt .40A	180	150	100	90	150°F
EF-8, EF-8Auto*	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

*EF-Auto Series include a power cord and a built-in pressure control for automatic operation.

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

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/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.



Model	Max Amps	Max Watts	Volts	CFM 0"	Duct Dia.	Weight
M-4	0.9	100	120	200	4"	9 Lbs
M-6	1.1	125	120	530	6"	12 Lbs
M-8	1.8	210	120	670	8"	15 Lbs
M-10	2.1	260	120	810	10"	15 Lbs

Applications:

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



Model	Max Amps	Max Watts	Volts	CFM 0"	Duct Dia.	Weight
P-4	0.8	95	120	200	4"	8 Lbs
P-6	1.5	180	120	530	6"	11 Lbs
P-8	2.1	250	120	670	8"	13 Lbs

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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