



Problem-Solving Exhaust, Ventilation, Transfer & Booster Fans



Indoor Air Quality Fans & Accessories

Duct Booster® Fans & Transfer Fans

Clothes Dryer Duct Booster® Fans

Hearth Products

Draft Inducers

Side Wall Power Venters

In-Forcer™ Powered Combustion Air Intakes

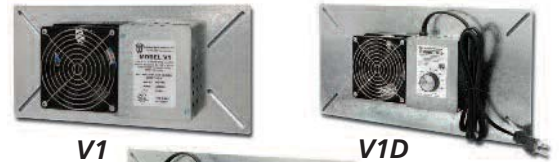
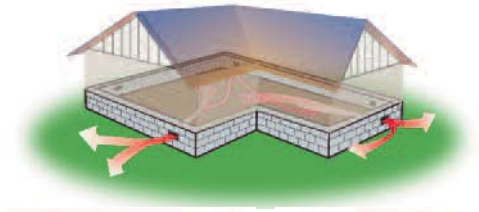
Interlock Controls & Accessories



Indoor Air Quality (IAQ) Fans & Accessories

UnderAire™ Crawl Space Exhaust Fans (Models V1, V1D & V2D)

Excess moisture in crawl spaces causes mold, mildew and wood rot with odors often migrating to the living space above. Crawl space fans quickly exhaust moisture and odors to the outdoors through existing passive vents. Models V1D and V2D include an adjustable Dehumidistat for automatic operation, a freeze protection thermostat and a 6' power cord. Mounting plate can be trimmed for smaller opening.



V1 V1D



V2D



CS1 CS2

UnderAire™ Crawl Space Supply Fans (Models CS1 & CS2)

Pair with V-Series fans to boost the supply of outdoor air into crawl spaces with too few or undersized passive vents or stagnant areas around knee walls or corners. Mounting plate can be trimmed for smaller opening.

DH10 Dehumidistat for V1 Crawl Space Fan

Dehumidistat installed in metal junction box hardwires in series with power lead of V1 Crawl Space Fans.



DH10

DH2P Dual Outlet Dehumidistat

Dehumidistat control with 2 outlets, individual on/off switches and a 6' power cord. Use with CS1, CS2 or any corded fan used for dehumidification.



DH2P

Crawl Space Exhaust

	Performance	Motor	Dehumidistat	Freeze Protection Thermostat	Dimensions
V2D	220 CFM	2@120/1/60 40 watts	Off/On or 20-80% RH	Opens at 40°F	18" x 9" x 2"
V1D	110 CFM	120/1/60 20 watts	Off/On or 20-80% RH	Opens at 40°F	18" x 9" x 2"
V1	110 CFM	120/1/60 20 watts	Optional Model DH10 dehumidistat available separately	Opens at 40°F	14 3/8" x 6 7/8" x 2"

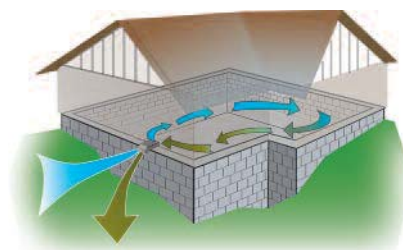
Crawl Space Supply

	Performance	Motor	Dehumidistat	Freeze Protection Thermostat	Dimensions
CS1	110 CFM	120/1/60 20 watts	Optional Model DH2P available or control with V2D or V1D dehumidistat	Opens at 40°F	18" x 9" x 2"
CS2	220 CFM	2 @ 120/1/60 40 watts		Opens at 40°F	18" x 9" x 2"

XchangeR™ Reversible Basement Fans

X2D Reversible Fan w/Dehumidistat Control

Cure damp, musty basements through automatic ventilation. Reversible fans can be positioned for 100% exhaust, supply or for balanced air exchange. Runs on only 40 watts compared to 1,000 watts consumed by a typical dehumidifier. Installs in a 5 1/4" x 12 1/4" cutout through a rim joist or wall. Includes screened exterior hood and Dehumidistat control with individual on/off switches and 6 foot power cord. Also works well for sealed crawl spaces, garages and to freshen seasonal homes.



Specifications: Models X2D & X2R

	Voltage	Watts	Amps	CFM
1 fan	120	20	0.3	90
2 fans	120	40	0.6	180

X2R Remote Mount Reversible Fan

Similar to the X2D but designed for applications where the fan section must be mounted remotely from the outside wall. Fan section connects to outdoor hood with 6" insulated flexible duct. Add the DH2P Dehumidistat control for automatic operation or activate with household timer. Fans have grounded 6' power cords.



DT2-6 Dual 6" Duct Take Off

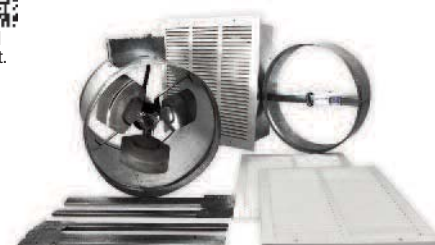
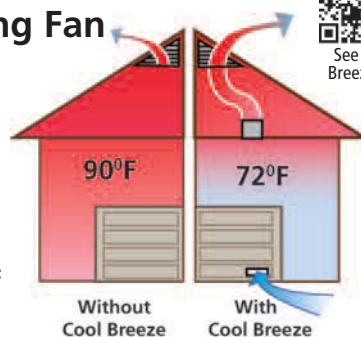
Replaces rear fan guard of the X2D or X2R so that 6" ducts can be connected. Use for enclosed utility rooms with chimney vented heaters or for improved whole basement air exchange. Use model G-6 grilles to connect to opposite ends of ducts.



Garage Cooling & Ventilation Fan

CB14 Cool Breeze™ Garage Cooling Fan

Ventilate air trapped in closed garages to reduce temperature and to remove pollutants. Fan mounts in garage attic joist space. Outdoor air is drawn through grilles in garage door or outside wall while hot air is exhausted into the attic space and pushed to the outdoors through the attic's ridge, roof or gable vents. Includes 2 outdoor air intake grilles, 1 ceiling grille, adjustable joist brackets, fire damper, adjustable activation thermostat and mounting hardware. Optional accessories: SWS wireless wall switch, DH10 Dehumidistat and 950-9300 wall mount digital timer.



Specifications: Model CB14

Voltage	Watts	Amps	CFM	RPM
120	155	2.17	1200	1450
Thermostat Range: 90°F to 130°F				

Indoor Air Quality (IAQ) Fans & Accessories

D-STRAT™ Compact, High Velocity Ceiling Fans

DSF2W
DSF2B

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

D-STRAT 30 watt, 540 CFM high velocity fans can reduce this differential by 50% or more, shortening thermostat cycles and making occupants more comfortable.

Use 1 fan for every 1000 Ft² floor space for ceilings up to 18 feet high.

Compact design can be installed between roof trusses for full access to upper level storage racking. Swivel mount allows for fan to be aimed to avoid obstructions or be concentrated at work areas.

Optional multi-voltage transformer model DSFTR converts all typical ceiling level power sources to 120 VAC.



Optional 120 VAC wall mount speed control P/N 950-8415 also available. Rated for use with up to 20 DSF2 Fans



See D-Strat Lit.



DSF2W
White
or
DSF2B
Black

Radon Mitigation Products

RMS160 Side Wall Terminated Radon VAC System

The only engineered solution for Side Wall Venting radon gas. Exhaust radon gases in drain tiled basements from the sump pit or from underneath the sub-slab using PVC piped to the fan and termination hood. Eliminates unsightly PVC on the home's exterior. Installs faster and safer because all work is at ground level.

System includes sealed blower with 3" PVC pipe connectors and a patented high velocity, corrosion proof side wall exhaust hood. Permanently lubricated ball bearing motor is mounted outside of the damp airstream. The exhaust hood adjusts to maximize discharge dilution and velocity based on the resistance of the sub-slab soil and piping. Vibration isolated mounting bracket for quiet operation. 160 CFM, 75 Watts.



See Radon VAC Video



RMS160

RX2 Radon Ventilation Fan for Basements and Sealed Crawl Spaces

Self-contained, requires no connection to PVC. Effectively reduce radon levels in homes with Radon levels of 10 pCi/l or less. Includes 2 reversible fans that can be positioned for a balanced air exchange or 100% exhaust or supply to dilute indoor radon levels. Uses only 40 watts to ventilate an 800 Ft² basement twice/hour. Installs in rim joist through a 5 1/4" x 12 1/4" cutout. 6' power cords. 220 CFM, 40 Watts.



RX2

RV2 Radon Ventilation Fan for Ventilated Crawl Spaces

Self contained, requires no connection to PVC. Effectively reduce Radon levels of 10 pCi/l or less in crawl spaces. Installs behind existing passive vents. Pulls fresh outdoor air from passive vents on opposite wall to dilute crawl space Radon levels and moisture. Uses only 40 watts to ventilate a 3 foot high, 800 Ft² crawl space 5 times/hour. 6' power cord. 18" wide by 9" high faceplate. 220 CFM, 40 Watts.



RV2

PVC4 16 Watt, 4" PVC Radon Booster Fan

Improve the performance of non-fan powered Radon exhaust stacks with minimal power consumption. Connects directly to 4", schedule 40 PVC. Permanently lubricated ball bearing motor with 6' power cord. 90 CFM, 16 Watts.



PVC4

R4B Low Profile Wall Mount Radon Fan

Wall hugging low profile design and heavy duty 20 gauge steel housing make the R4B the choice for discrete, architecturally sensitive, exterior wall installations. Directly connects to 4" PVC without the need for rubber couplers. White powder coat finish with stainless steel hardware.



R4B & R4BC

R4BC Commercial Low Profile Wall Mount Radon Fan

The same heavy duty construction and finish as the R4B but with the performance required by commercial jobs with large floor footprints and extensive piping. Pressure producing capabilities exceeding 5" W.C.

Traditional In-Line Radon Fans

The R-Series Radon Fans span a wide range of both pressure and flow performance. The housings are constructed of non-yellowing, UV resistant, fiberglass reinforced polyester with a light gray finish. All feature waterproof electrical junction box covers and high quality, maintenance-free motors made by ebm-papst.



R-Series

Radon Fan Performance

	Max Static Pressure	Max CFM	Watts	Application
R3HF	2.71" w.c.	163	130	Moderate Suction/Low Flow
R4HF	1.88" w.c.	220	85	Low Suction/Moderate Flow
R5HF	2.60" w.c.	353	150	Moderate Suction/High Flow
R3LW	0.90" w.c.	121	20	Low Suction/Low Flow
R5LW	1.75" w.c.	294	85	Low Suction/High Flow
R3HS	3.99" w.c.	124	160	High Suction/Low Flow
R8C	2.65" w.c.	520	142	Moderate Suction/High Flow
R4B	1.90" w.c.	195	90	Low Suction/Moderate Flow
R4BC	5.51" w.c.	240	302	High Suction/Moderate Flow

Flexible Radon Fan to PVC Couplers

Rubber couplers connect nominal diameter fan inlets/outlets to the OD of schedule 40 PVC pipe. Stainless steel tightening hardware allows for easy installation and fan replacement. Sold in sets of 2.

- RC3X3**
- RC4X3**
- RC4X4**
- RC6X4**

Size
3" - 3"
4" - 3"
4" - 4"
6" - 4"



RC Series

RA1 Radon Fan Failure Alarm

Alerts of a radon fan failure or ice induced pipe blockage. Includes low voltage power supply, sensing tubing and mounting hardware. Compatible with all Active Sub-Slab Depressurization (ASD) systems.



RA1

RS1 Safety Siren Pro 3 Continuous Radon Monitor

Easy-to-use radon monitor that plugs into a standard household wall outlet to continuously monitor your home for radon gas. An alarm will sound when radon levels reach 4.0 pCi/L or higher.



RS1

Duct Booster® Fans & Transfer Fans

Duct Booster® Fans

DB-2

The Original Duct Booster® (275 CFM)

Installs in round ducts up to 8" or in rectangular ducts as shallow as 3.25." Motor is outside of airstream for extended service life, good for temps up to 200°F. Quiet, 1500 R.P.M. operation. Use PS1503 Duct Airstat for automatic operation with any forced air system. 40 Watts.



DB-2

DBM4

Energy Saver Booster Fan for 4" Metal & Flex Duct

Delivers 100 CFM while consuming only 18 Watts. Features 2" deep collars for easy and secure duct connections. 6' power cord.



DBM4 & FAI-4

FAI-4

Fresh Air Supply Fan with Intake Hood

Includes DBM4 fan and 4" galvanized steel intake hood. Activate manually, with household timer or with model DH2P Dehumidistat control.

In Line Duct Booster® Fans

The toughest built and best performing prop fan style Duct Boosters. Use to boost airflow into hard to cool or heat areas. Also used for ambient air supply and exhaust fans. All models have 24 gauge galvanized steel housings with ribbed duct stops, crimped leading ends and electrical junction boxes. EF-6 & 8 models have 3000 RPM C-frame motors and EF-10, 12 & 14 models have 1500 RPM shaded pole motors. EF-Auto models automatically operate in tandem with a central blower and have 6' power cord. Use model PS1503 Duct Airstat to automatically operate all other models. Use model SC-1 to speed control models EF-6, 8 & 10. Rated for 150°F max temp.



EF-6

EF-8

EF-14

DB-2, 6" Duct
DB-2, 8" Duct

EF-6

EF-8

EF-10

EF-12

EF-14

Motor Specifications		Duct Length in Feet				
		Free Air CFM	25 Feet CFM	50 Feet FM	75 Feet CFM	Max Air Temp
120V	40 Watts	200	150	100	95	200°F
		275	250	220	180	200°F
120V	28 Watts	180	150	100	90	150°F
120V	56 Watts	325	300	250	200	150°F
120V	48 Watts	475	400	325	275	150°F
120V	89 Watts	875	800	700	600	150°F
120V	155 Watts	1200	1100	1000	900	150°F

P-Series Plastic Housing High Pressure Inline Fans

High performance fans maintain airflow in long or convoluted duct layouts. Plastic housings are great for high moisture environments. Include factory wired grounded power cord and metal mounting bracket. Rated for temperatures from 32°F - 140°F.



P-Series

P-4

P-6

Inlet/Outlet	Free Air CFM	Volts	Watts
4"	190	120	80
6"	400	120	130

RB-Series Register Booster Fans

When there is no access to a duct install a Register Booster fan. Simply remove the existing register, drop the booster fan into the boot opening and cover with the included new floor grille. Quiet, cross-flow blower outperforms prop blade register booster fans. Operate continuously for best results. Available with white or brown colored floor grilles. Models for both 4"x10" and 4"x12" registers. All metal construction with 6' power cord and built-in on/off switch. Compatible with model SCP speed control. Activate with optional model SWR wireless remote.



RB-Series

CB-Series Register Booster Fans

Economical booster fan for 3"x10" and 4"x10" register outlets. All in one design drops into register boot and plugs into power outlet. Operate manually or automatically with built-in temperature sensor.



CB-Series

RB10
RB10W
RB12
RB12W
CBB
CBW

	Size	Grille Color	CFM	Volts	Watts	Sones
	4"x10"	Brown	75	120	20	1.4
	4"x10"	White	75	120	20	1.4
	4"x12"	Brown	75	120	20	1.4
	4"x12"	White	75	120	20	1.4
	3&4"x10"	Brown	45	120	18	1.4
	3&4"x10"	White	45	120	18	1.4

Duct Booster® Fan Accessories

SCP Plug-in Speed Control for Fans with Power Cords

Plug SCP into outlet then plug fan power cord into outlet on SCP speed control. Speed control dial is on face of control. Use for fans up to 300 Watts.



SCP

SC-1 Hard Wire Speed Control

Wire in series with power to motor to control speed. Rated for models EF-6, 8 & 10. Compatible with PS1503 Duct Airstat.



SWR Switch-It™ Wireless Remote Controlled 120 V Outlet

Plug-in receiver and wireless remote. Control any plug-in device up to 15 Amp/1800 Watts via a wireless on/off remote up to 80 feet away.



SWR

PS1503 Positive Pressure Duct AirStat™

Senses duct pressure via 1/4" hole in duct between main blower and Duct Booster fan. Pressure from main blower actuates switch to operate Duct Booster fan automatically. 120 Volt, 15 AMP max. Makes on pressure rise of $+0.05 \pm .02$ " W.C.



PS1503

DR-10 Positive Pressure Clothes Dryer Vent Switch

Senses exhaust pressure from clothes dryer to activate booster fan. Features timer circuit to validate dryer operation. Includes sensing tube and mounting hardware. Rated for 115 Volt fans up to 3.8 amps.



DR-10

Duct Booster® Fans & Transfer Fans

G-Series Round Poly Grilles for Supply and Exhaust Air (Models G-4, G-6 & G-8)

Low profile grilles connect to duct with included metal collar. Screw action adjustable damper. Non-yellowing white finish may be painted.



G-Series

BD-Series Spring Loaded Back Draft Dampers (Models BD-4, BD-6 & BD-8)

Backdraft dampers with galvanized steel collar and lightweight aluminum damper blades. Spring loaded for positive closure.



BD-Series

AireShare™ Transfer Fans

The quiet way to make hot or cold rooms more comfortable.

Extend the reach of Mini-Splits, PTAC's, Ductless Cooling / Heating and Fireplaces.



Room-to-Room



AS1



AS1P



AS2

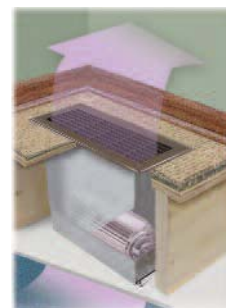
AS1 Room-to-Room Transfer Fans

Transfer air to adjacent rooms through interior wall cavities. All models include powder coated white intake grille and supply diffuser. Install intake blower at a height in wall that best takes advantage of cooler (low) or warmer (high) air. Models AS1 & AS2 can be activated with a wall switch or add the FC24 fan center to control with any 24 V t-stat. Switch-it wireless controls make retrofits easier. Model AS1P installs adjacent to power outlet and has switch on bottom of grille. Choose model size based on target room size. Use AS2 when high cooling loads are common.

AS1P
AS2

ASLL Level-to-Level Transfer Fans

Transfer air up or down through a sleeved blower housing that extends from 8 3/4" to 16 1/2" to accommodate most floor joist depths. Includes white ceiling grille and brown floor grille. On/Off switch on floor grille side or use Switch-it wireless controls.



Level-to-Level



ASLL

	Target				
	CFM	Speed	Watts	Room Size	Power Supply
AS1	60	Fixed	20	up to 150 ft ²	120V hard wired
AS1P	60	Fixed	20	up to 150 ft ²	120V plug-in
ASLL	70	Fixed	20	up to 175 ft ²	120V hard wired
AS2	80	Low	16	up to 200 ft ²	120V hard wired
	95	Med	21	up to 235 ft ²	
	110	Hi	30	up to 275 ft ²	

AS1
AS1P
ASLL
AS2

FC24 24 Volt Fan Center

Use to interface AS1 & AS2 transfer fans with any 24 V thermostat. Includes 24 V transformer and switching relay.



FC24

DK2 Duct Kit for AS2 Transfer Fan

For installation in obstructed wall cavities, where metal studs with wiring knock-outs are used or to conform to energy codes requiring metal ducts. Installs in cut out needed for AS2 blower. Centerline of diffuser in target room is 5" above blower discharge.



DK2

SWS Switch-It™ Wireless Wall Switch

Control hard wired AireShares and other fans up to 3 Amps with a wireless wall switch. Locate switch up to 80 feet away from receiver. Includes rocker style wall switch with batteries, receiver and mounting hardware.



See Switch-It Lit.



SWS

SWT Switch-It™ Wireless Thermostat (Heat Only)

Mount digital thermostat in receiving room of transfer fan to activate fan if room temp drops below set point. Also control fan operation through on/off buttons. Rated for 120 volt fans up to 3 Amps. Includes thermostat with batteries, receiver and mounting hardware. 80' range.



SWT



See Clothes Dryer Booster Ref. Guide

Clothes Dryer Duct Booster® Fans

LB2 No-Clog UL705 DEDPV Listed Residential Dryer Duct Booster®

Dramatically reduce clothes drying time, energy use and lint build up by increasing exhaust velocity in extended or convoluted dryer exhaust ducts up to 150 equiv. feet. Pressure and temperature sensing control syncs booster fan with dryer operation. Status panel confirms proper fan operation. Vibration isolated mounting bracket for quiet operation. 6' power cord. 5-year, no-clog guarantee and warranty. 50 Watts.



See Dryer Booster Video



LB2

CDB8 Commercial Capacity Clothes Dryer Duct Booster®

For both wall and roof terminated dryer exhaust. Features temp activated motor cooling fan and material handling blower wheel. 8" inlet/outlet connections. 1000 CFM, 120 VAC / 6.2 Amps.



CDB8

COP2DB Pressure Control

Modulates fan to maintain desired exhaust pressure set point. Input Power: 115 VAC ±10%, 47-64 Hz. Single Phase, 6.2 Amps. Output Power: 115 VAC, 6-70 Hz. Single Phase. For use only with model CDB8 Booster Fan.



COP2DB

DEVH Series Vent Hoods (Models DEVH8 & DEVH12)

G90 galvanized steel commercial dryer exhaust hoods with internal gravity flapper. 8" or 12" duct connectors. Select size equal to or greater than common manifold diameter.



DEVH Series

Clothes Dryer Duct Booster® Fans

IEK8 In-Line Elbow Kit

Allows the CDB8 to be installed in-line, maintaining a straight line exhaust duct. It replaces a 42" section of straight duct. Includes (2) 8" diameter sweep elbows, (1) 12" length and (1) 4" length of 8" diameter duct.



IEK8

RT-Series Rooftop Exhaust Fans

RT-Series Fans used in conjunction with DH-Series discharge hoods are also suitable for commercial dryer exhaust systems. Material handling stainless steel impeller repels lint.

See Page 12 for RT-Series information. Tjernlund Specified Systems are also available for larger capacities.



RT750 & RT1500 with DH-Series Hoods

Hearth Products

AD-1 Auto-Draft® Solid Fuel Draft Inducer

Increase draft of wood & coal stoves to end hard starts, smoky back-ups and lazy fires. Install in single wall pipe from 5" - 8" in diameter between the stove outlet and the chimney. High temp flat black powder coat finish, permanently lubricated motor and material handling aluminized steel impeller. Includes speed control and mounting hardware. 120 Volt, 74 Watts.



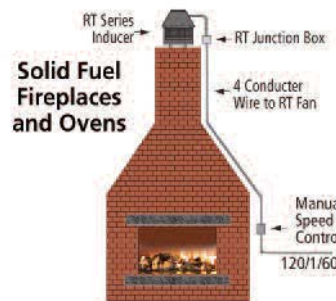
See Hearth Products Lit.



AD-1

RT-H Series Chimney Top Draft Inducers

Increase fireplace draft to eliminate fire starting problems, smoky back-ups and problems like small, short or offset flues and structures under negative pressure. Attaches to either tile lined or metal chimneys with included mounting kits. Adapts to various flue shapes and sizes. Patented motor cooling system protects motor to 1,000°F flue temperature, twice the rating of other brands. Clam shell hinged housing for easy flue access. Features a permanently lubricated PSC motor and self cleaning stainless steel impeller. Install included speed control adjacent to hearth area for easy draft control.



RT750H & RT1500H

	Max CFM	Max Face Area	Inlet	Volts	Amps
RT750H	800	14 Ft ²	8"	120	1.2
RT1500H	1700	28 Ft ²	12"	120	5.8

SB1 Hot Shot Universal Stove Blower

Captures and distributes heat from the stove top up to 5 times faster than a stove with no blower. Quiet, cross flow blower moves 75 CFM. Adjustable discharge directs warm air to desired area of room. Flat black high temp finish. 6' power cord, 25 Watts.



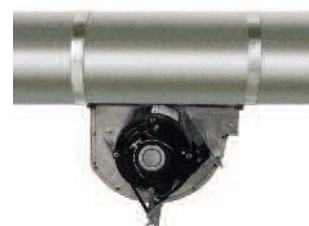
SB1

In-Line Draft Inducers

Use for non-condensing chimney vented gas and oil fueled heating equipment, including boilers, water heaters, furnaces and ovens. Increase draft for installations affected by restrictive heat exchangers, chimneys that are too short or small or to combat back drafts caused by negative building pressures. Install inducer in slot cut into single wall vent connector between heater and connection to chimney. Draft inducers must be interlocked with burner(s) using PS1505 Fan Proving Switch and UC1 interlock controls. See Controls and Accessories for details.



See Draft Inducer Ref. Guide



DJ-3

Vent Dia.	Max Btu Input Gas/Draft Hood	Max Btu Input Gas/Barometric	Max Btu Input Oil Barometric
3"	69,000	72,000	58,000
4"	105,000	109,000	92,000
5"	111,000	104,000	74,000
6"	100,000	34,000	25,000

D-3

5"	270,000	333,000	295,000
6"	356,000	377,000	300,000
7"	360,000	330,000	230,000
8"	320,000	222,000	123,000

I

8"	900,000	1,200,000	1,100,000
9"	1,100,000	1,330,000	1,100,000
10"	1,250,000	1,260,000	840,000
12"	1,030,000	710,000	400,000

IL

10"	2,080,000	2,460,000	1,900,000
12"	1,920,000	2,230,000	1,500,000
14"	1,840,000	1,470,000	825,000
16"	900,000	650,000	350,000

XL

16"	4,000,000	4,000,000	3,300,000
18"	3,900,000	3,250,000	2,100,000
20"	2,800,000	2,100,000	1,200,000

HD

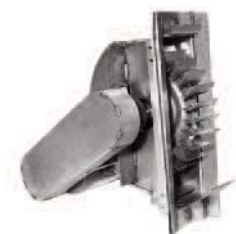
20"	5,300,000	5,200,000	3,600,000
24"	3,500,000	3,750,000	2,900,000



DJ-3 & D-3



I, IL & XL



HD

This table is for general reference only. Refer to complete selection table in Draft Inducer Reference Guide for sizing details. Vents served by In-Line Draft Inducers must terminate above the roof line. Do not use for Side Wall Venting.

CSA1 Chimney Stack Assist Kit for Water Heaters

Use to stop spillage and condensation problems for gas water heaters orphaned in oversized chimneys. Installs in single wall vent connector between draft hood and chimney. Eliminates costs and roof safety issues associated with chimney lining. Quiet, 35 Watt fan with 6' power cord and 12' low voltage control cable. Includes gas pressure switch, linear limit spillage switch and thermocouple junction adapter. For heaters up to 65,000 BTU/hr.



See CSA1 Kit Lit.



CSA1

Draft Inducers

RT-Series Rooftop Exhaust Fans

Use to increase draft for gas & oil fired heaters or to maintain velocity in exhaust chases and clothes dryer vents serving multiple floors/sources. Pair with COP2 Control for automatic pressure based speed control, ramping fan up and down based on the volume of exhaust entering the chase or common vent. Clamshell design simplifies installation, inspection and service. Material handling stainless steel impeller repels soot and lint. Includes PSA-1 Fan Proving switch. Black high temp powder coat finish.



See Rooftop Fan Lit.



RT750 & RT1500

RT750
RT1500

	Max CFM	Inlet	H.P.	Volts	Amps
RT750	800	8"	1/12	120	1.2
RT1500	1700	12"	1/2	120	5.8

UCRT Interlock Control for Gas & Oil Burners

Syncs RT Series fan operation with burner and provides interlock to satisfy mechanical codes. Includes manually adjusted speed control to match fan speed with application. Use MAC-Series controls to interlock additional burner circuits.



UCRT

COP2 Demand-Based Automatic Variable Speed Control

Modulates fan speed to maintain constant exhaust pressure within vent or exhaust chase as source volume changes. Use on RT-Series fans exhausting common vents serving multiple clothes dryers. Reduces lint buildup and allows clothes to dry faster. Also used for venting bath and kitchen exhaust chases serving multiple floors. Saves energy by matching fan speed to actual demand. Simple 120 V single phase wiring and dip switch pressure set point selection. Includes integral VFD and Transducer. When used with common vented category 1 boilers/water heaters add the CIC1 interlock control.



COP2

CIC1 Burner Interlock Control

Interlocks gas and oil burners with COP2 controlled exhaust fan. Add MAC1E or MAC4E expansion modules to match number of burners to be vented.



CIC1

DH750 DH1500 Discharge Hoods with Damper

Use for clothes dryer exhaust applications to replace standard screened outlet grilles that are included with RT-Series fans. Gravity damper closes when fan is not operating. 5052 aluminum construction. Use DH750 for RT750 and DH1500 for RT1500.



DH750 & DH1500

RTS8 RTS12 Rooftop Stands for RT-Series Fans

Use to support fan on a flat roof surface. Adjusts from 10"-16" high. Heavy duty 5052 aluminum construction. Use RTS8 for RT750 and RTS12 for RT1500.



RTS8 & RTS12

Side Wall Power Venters

HS-Series Power Venters

Use to Side Wall Vent non-condensing gas and oil heating equipment that otherwise would require a conventional roof top terminated chimney. Eliminate roof penetrations, install heaters in places without chimney access and overcome negative building pressures. Permanently lubricated motors and aluminized steel housings. UC1 interlock control and fan proving switch included with all models. Adjustable pre/post purge, LED status indicators and fault code memory. Interlock with any 24 Volt or 120 Volt control circuit. Use model WHKE for millivolt heaters and models MAC1E or MAC4E for interlocking multiple heaters.



See Power Venter Ref. Guide

	Inlet/Outlet Diam.	Vent Diam.	MBTU/Hr. Input	Max. Vent Length @		
				300°F Gas Fired	400°F	500°F Oil Fired
HSJ	4"	4"	25-100	100'	100'	100'
HS1	4"	4"	100-150	100'	60'	35'
		4"	200	87'	57'	27'
		6"	150-200	100'	100'	100'
		6"	250	100'	92'	---
HS2	6"	6"	300-450	100'	100'	67'
		6"	500	100'	72'	---
HS3	8"	8"	500-600	100'	100'	---
HS4	8"	8"	700-900	100'	100'	---
		10"	900-1,100	100'	100'	---
HS5	10"	10"	1,100 -1,600	100'	100'	---
		14"	1,600 -1,825	100'	100'	---



HSJ, HS1 & HS2



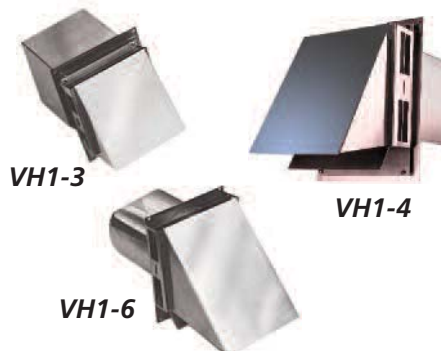
HS3, HS4 & HS5

This table is for general reference only. Refer to complete selection table in Side Wall Power Venter Reference Guide for sizing details.

VH1-Series Side Wall Vent Hoods

Use with HS-Series Power Venters or with any other non-condensing side wall terminated vent. Commercial grade 5052 aluminum construction is corrosion resistant. Models VH1-3 & 4 have built in clearance from combustibles. Mounting hardware included.

	Inlet Diameter	Rough-in Dimension
VH1-3	3"	6 3/4" Square
VH1-4	4"	8" Square
VH1-6	6"	9" Round
VH1-8	8"	8 1/2" Round
VH1-10	10"	10 1/2" Round



VH1-10



VH1-8

Side Wall Power Vent Systems

SideShot® Series Vent Systems for Oil Fired Heaters

Use to Side Wall Vent non-condensing oil fired boilers, water heaters and furnaces that otherwise would require a conventional roof top terminated chimney. Built-in interlock control with redundant high limit safety switch interfaces easily with thermostat, aquastat or primary controls. Adjustable pre & post purge timing and easy fault code retrieval. Stainless steel construction in all critical components including outdoor terminus. Patented design jets flue gases away from the outside wall to eliminate potential staining of siding. Model SS2 features slide out service drawer and material handling stainless steel impeller.



See SideShot Lit.

SS2 & SS1

	Natural & LP Gas	Flame Retention Oil Burner	Max. Vent Length in Equivalent Feet
SS2	40,000 – 125,000 BTU/Hr.	70,000 – 168,000 BTU/Hr.	50
SS1	50,000 – 160,000 BTU/Hr.	70,000 – 220,000 BTU/Hr.	50
SS1C	N/A	50,000 – 315,000 BTU/Hr.	50

GPAK-Series Side Wall Vent Systems for Fan Assisted Gas Heaters

Use to Side Wall Vent 80+ Fan Assisted furnaces & boilers that otherwise would require a B-vent roof terminated chimney. Kit includes Power Venter with UC1 interlock control, 4" draft control and model VH1-4 vent termination hood.



GPAKJ & GPAK1

	Vent Pipe Diameter	Btu/Hr. Input	Max. Vent Length in Equivalent Feet
GPAKJ	4"	45,000 – 120,000	60
GPAK1	4"	120,000 – 150,000	60

Tjernlund Also Offers Specified Systems

Intelligent modulating draft, exhaust and combustion air systems adapt to changing conditions for precise control of exhaust and ventilation processes.



Constant Pressure Controller

VP-Series Millivolt Water Heater Side Wall Vent Kits

Use to Side Wall Vent millivolt gas water heaters that otherwise would require a conventional roof top terminated chimney. Works with all water heater brands of all ages. Includes power venter with low voltage control cable and 6' power cord, interlock controls and vent termination hood.



VP-2F & VP-3F

VP-2F
VP-3F

	Capacity in BTU/Hr.	Max. Vent Length in Equivalent Feet	Vent Diameter
	Up to 60,000	75'	3"
	60,000 to 120,000	75'	4"

In-Forcer™ Powered Combustion Air Intakes

Combustion Air In-Forcers

Use to provide a fan powered supply of combustion air to mechanical rooms. Reduce wall opening size by up to 80% compared to standard louvers. Residential models PAI-2G/2O include a screened PVC intake elbow and temper delivered air by mixing with room air prior to discharge. Model PAI-2G has 24 Volt interlock and power cord. Model PAI-2O has 120 Volt interlock. Commercial models PAI-4, PAI-6, PAI-7 include low profile hood suitable for rooftop or a side wall intake. Duct outdoor air up to 100 feet. All include a fan proving pressure switch and outdoor air pre-filter. Use UC1 and MAC-Series interlocks to conform to mechanical codes for fan powered combustion air.



See In-Forcer
Video



PAI-2G & PAI-2O



PAI-4, PAI-6 & PAI-7

PAI-2G
PAI-2O
PAI-4
PAI-6
PAI-7

	Max. Btu/Hr. Gas Draft Hood	Max. Btu/Hr. Fan Assisted or Power Burner	Max. Btu/Hr. Oil Fired Flame Retention	Max. CFM
	150,000	280,000	N/A	80
	N/A	N/A	260,000	80
	450,000	850,000	775,000	250
	1,300,000	2,500,000	2,300,000	680
	2,100,000	3,700,000	3,700,000	1175

This table is for general reference only. Refer to complete selection table in In-Forcer literature or instructions for details.

Tjernlund Specified Systems are proven performers in a wide range of commercial and industrial buildings throughout North America.



Auto-Draft®
Induced Draft
Systems



Combustion Air
or Draft Universal
Blowers



Combustion and
Supply Air Blowers

Interlock Controls and Accessories

UC1 Universal Burner Interlock Control

UC1-1HP

Interlocks mechanical draft and combustion air systems with a single gas or oil fired burner. It can be activated by any 18-130 VAC burner control circuit or by a gas pressure switch or relay using the 5 VDC output supplied by the UC1 control. Adjustable pre/post purge settings, LED status and fault code indicators. For less than 1 HP draft or combustion air motors use model UC1. Use model UC1-1HP for 1HP models.



See UC1
Mobile Site



UC1 & UC1-1HP

PS1505 Fan Proving Switch for In-Line Draft Inducers

Monitors pressure within draft inducer housing to verify operation. Used in conjunction with UC1 burner interlock control. Aluminum sampling tube and connection hardware included.



PS1505

MAC1E Multiple Appliance Interlock Controls

MAC4E

Use with UC1 to interlock additional 18-130 volt burner circuits. MAC-Series controls are powered by and communicate with a UC1 through an included color coded whip. Use MAC1E for one additional heater or MAC4E for up to four additional heaters.



MAC1E & MAC4E

WHKE Millivolt Water Heaters Interlock

Use to interlock with self generated millivolt gas water heaters. Includes a gas pressure switch to sense main burner operation, a linear limit flue gas spill switch and a thermocouple junction adapter to tie into the heater's thermocouple circuit. Use with UC1 or MAC-Series controls.



WHKE

There's No Substitute for Experience, Outstanding Quality and Service

Tjernlund (Churn-lund) is a 4th generation Minnesota-based company. Since our founding in 1938, we have designed products that solve every day problems and are built to last. Tjernlund products are backed with superb customer service by dedicated support personnel.



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