

TJERNLUND DRAFT, COMBUSTION AIR AND VENTILATION

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Expert Service. Quality Products. Since 1960.

IN-LINE AUTO-DRAFT INDUCERS

IMPROVE HEATING EFFICIENCY

In-Line Draft Inducers assure positive draft when restricted boilers and furnaces, poor chimneys, or negative pressures in buildings prevent proper exhaust of combustion gases. The Venturi action starts air moving up the stack instantly and keeps it moving smoothly. In-Line Inducers are built for long-lasting, trouble-free service and are available in sizes and capacities to meet virtually all heating system requirements. The Vari-Draft control permits adjustment to individual job requirements. Vents/ chimneys utilizing In-Line Draft Inducers must be vertically terminated above the roofline.

Typical Applications:

- Boilers/Furnaces
- Water Heaters
- Modular Boiler Systems
- Multiple Appliances
- Bakery Ovens
- Factory Processes



Solves Venting Problems:

- Undersized Chimneys
- Negative Pressures
- Long Horizontal Vent Connectors
- Down Drafts
- Cold Equipment Starts
- Restrictive Heat Exchangers/Combustion Chambers

NOTE: For use on vertically terminated vent systems only.

ITEM #	MODEL	VOLTS/HZ/RPM/WATTS/AMPS	THERM. PROT.
813030	TJ-DJ-3*	Std. 115/60 cyl/1550/35 W/.43	IMP. PROT.
813032	TJ-D-3*	Std. 115/60 cyl/1550/74 W/.96	YES
813034	TJ-I	Std. 115/60 cyl/1725/1/4 H.P./5.4	YES
813036	TJ-IL	Std. 115/60 cyl/1725/1/4 H.P./5.4	YES
813038	TJ-XL	Std. 115/60 cyl/1725/3/4 H.P./10.8	YES

*C.S.A. Certified



Model TJ-DJ-3



Model TJ-D-3



Model TJ- I



Model TJ-IL



Model TJ-XL

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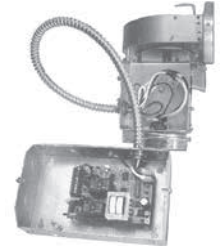
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POWER VENTERS

MODELS TJ-HSJ, TJ-HS1, TJ-HS2, TJ-HS3, TJ-HS4

A full range of models from small residential to large commercial capacities. All models feature the TJ-UC1 interlock control, factory set Fan Proving Switch and adjustable damper to fine tune vent system draft. Can be used on natural gas, LP, and oil-fired furnaces, boilers, and water heaters. We recommend using the SideShot® vent systems for oil-fired applications and do not recommend using the models TJ-HS3, 4, 5 for oil due to the potential volume of soot if the burner goes out of adjustment. Select the appropriately sized TJ-VH1 Series Vent Hood (Please refer to index) to complete your side wall vent system.

ITEM #	MODEL	DESCRIPTION	VENT PIPE DIAMETER (")
813073	TJ-HSJ	Power Venter	4
813075	TJ-HS1	Power Venter	4 – 6
813077	TJ-HS2	Power Venter	6 – 8
813078	TJ-HS3	Power Venter	8 – 10
813079	TJ-HS4	Power Venter	8 – 12



TJ-HSJ, TJ-HS1 and TJ-HS2



TJ-HS3, TJ-HS4

SIDE WALL VENT SYSTEM POWER VENTERS

SIDESHOT® — MODEL TJ-SS1C

The SideShot 1 is intended for use with natural draft oil and gas heating equipment. It automatically vents the flue gases from heating equipment to the outdoors. Surrounding combustible surfaces and exhaust gases are kept at safe temperatures by pulling outdoor air into its casing and mixing it with the flue gases during operation. After each burner cycle the SS1 will continue to operate for an adjustable period to purge the heater and vent of residual gases.

The SS1 features a 3-way safety system consisting of the UC1 Interlock Control, Fan Proving Switch, and High Limit. These devices monitor the SS1 performance and will disrupt the burner if a vent system malfunction is detected.

ITEM #	MODEL	DESCRIPTION
813080	TJ-SS1C-U	SideShot® Vent System includes UC1 Control



DUCT BOOSTER FANS

- Boosts air flow in hard to heat or cool rooms.
- Model DB-2 features motor outside of air stream.
- Easy installation in both metal and flex duct (EF-Series only).
- Optional speed and Duct Airstat operating controls.
- Quiet, smooth operation.

ITEM #	MODEL	HP/WATTS	AMPS	FREE AIR CFM
813110	TJ-DB-2	1/70 HP	.51	200-275



XCHANGER™ BASEMENT FANS

- Exhausts musty or contaminated air. Brings in fresh air.
- Supplies fresh make-up air in tight homes. Helps prevent mold and structural rot.
- Position one fan in each direction for balanced fresh air exchange.

ITEM #	MODEL	DESCRIPTION	STD PKG	STD WT (LBS)
813122	TJ-X2D	XCHANGER™ Basement Fan	1	19
813124	TJ-SCP	Plug-in Speed Control	1	1
813126	TJ-DT2-6	Dual 6" Duct Connectors	1	2



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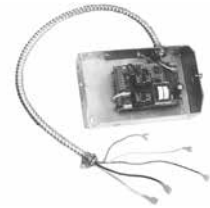
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ACCESSORIES

UNIVERSAL CONTROL

The single interlock for all Tjernlund mechanical draft systems. Features include: adjustable pre and post purge, LED status/diagnostic indicators, and prover switch check circuit verifies fan prover switch is open prior to operating. Eliminates appliance control circuit compatibility issues since the UC1 interlocks with dry contact, 24 VAC or 115 VAC appliance control systems. Appliance control circuit voltage can be selected, eliminating false triggering by burner check circuits.



ITEM #	MODEL
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813196	TJ-UC1
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NOTE: The TJ-UC1 is a standardized control for Tjernlund Inducers/Venters.

MULTIPLE APPLIANCE CONTROL

Used with any TJ-UC1 controlled inducer to interlock additional 24/115 VAC heaters. Powered by and communicates with the TJ-UC1 through a factory wired whip. For one additional 24/115 VAC heater, add the TJ-MAC1E. To interlock up to four more additional 24/115 VAC heaters, add the TJ-MAC4E. TJ-MAC4Es can be daisy chained together for greater than 5 heaters. **Important:** Total combined BTU/hr. input of all heaters and total equivalent pipe lengths must be within inducer's capacity.



ITEM #	MODEL
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813104	TJ-MAC1E
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MILLIVOLT INTERLOCK KIT

WHKE

For use with TJ-UC1 Universal Control, TJ-MAC1E or TJ-MAC4E auxiliary controls. The TJ-WHKE gas pressure switch actuates the inducer through the A - B Dry contacts. The Linear Limit switch disables the heater in the event of a venting malfunction. Includes TJ-JA1 thermocouple junction adapter. To interlock millivolt water heater(s) only with a TJ-UC1 controlled inducer add a TJ-WHKE for each millivolt heater. To interlock a millivolt water heater, and one 24/115 VAC furnace or boiler with a TJ-UC1 controlled inducer, add a TJ-WHKE and a TJ-MAC1E.



ITEM #	MODEL
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813106	TJ-WHKE
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WHK-1

Includes Gas Pressure Switch with electrical box, Linear Limit Spill Switch and all necessary hardware to interlock a Power Venters (Gas, Oil) or Draft Inducer to an instantaneous gas water heater or millivolt pool heater.

ITEM #	MODEL
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813107	TJ-WHK-1
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NOTE: This kit will work with the UC1 control, however, the WHKE is recommended.



VENT HOODS

Specially designed to terminate Tjernlund Side Wall Vent Systems. They are also an approved method of terminating many horizontally vented appliances. Vent hoods feature heavy duty, corrosive-resistant aluminum construction. Models TJ-VH1-3, 4, and 6 also have built in clearances from combustibles. Building exteriors are kept clean while the structure's exterior aesthetics remain undisturbed. All mounting hardware is included.



ITEM #	MODEL	DESCRIPTION
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813092	TJ-VH1-4"	4" Vent Hood with Casting
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813094	TJ-VH1-6"	6" Vent Hood
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813096	TJ-VH1-8"	8" Vent Hood
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