



# INSTRUCTION MANUAL CABINET EXHAUST FANS

## Model Numbers Covered:

36D370S, 36D370TS, 36DL750S, 36DL750TS, 36XL550S,  
36XL750S, 36XL750TS, 42DL750S, 42DL750TS, 42XL750S,  
42XL750TS, 42XL1125S, 42XL1125TS, 48XL750S,  
48XL750TS, 48XL1125S, 48XL1125TS



Please **read** and **save** these instructions. Read carefully before attempting to assemble, install, operate or maintain the equipment described within this manual. Carefully follow all safety information.

Save this manual for future reference.

Model # \_\_\_\_\_

Purchase Date: \_\_\_\_\_

## Getting Started



### Tools/Materials Needed:

- Drill/drill bits
- Saw
- Level
- Screwdriver(s)
- 5/16" nut driver
- Construction screws
- Caulk or sealant

### Contents:

- Galvanized box fan with shutter(1)
- Instruction manual(1)

### Inspection:

After unpacking your fan, carefully inspect for any damage that may have occurred during transit. Inspect for loose, missing or damaged parts. If there is physical damage to any parts of the fan, a freight claim must be filed with the carrier. Check to assure that all bolts, screws and set screws are securely tightened and have not become loose during transit. Retighten as required. Rotate propeller by hand to assure it turns freely.

## General Safety Instructions



**Warning:** Before installing or servicing, always lock out and tag power source. Do not rely on a switch as the only means of disconnecting power. Failure to disconnect power can result in fire, electrical shock or serious injury. Motor will restart without warning after thermal protector trips. Do not touch an operating motor as it may be hot enough to cause injury. Do not place any body parts or objects in fan or drive components while fan is connected to a power source.



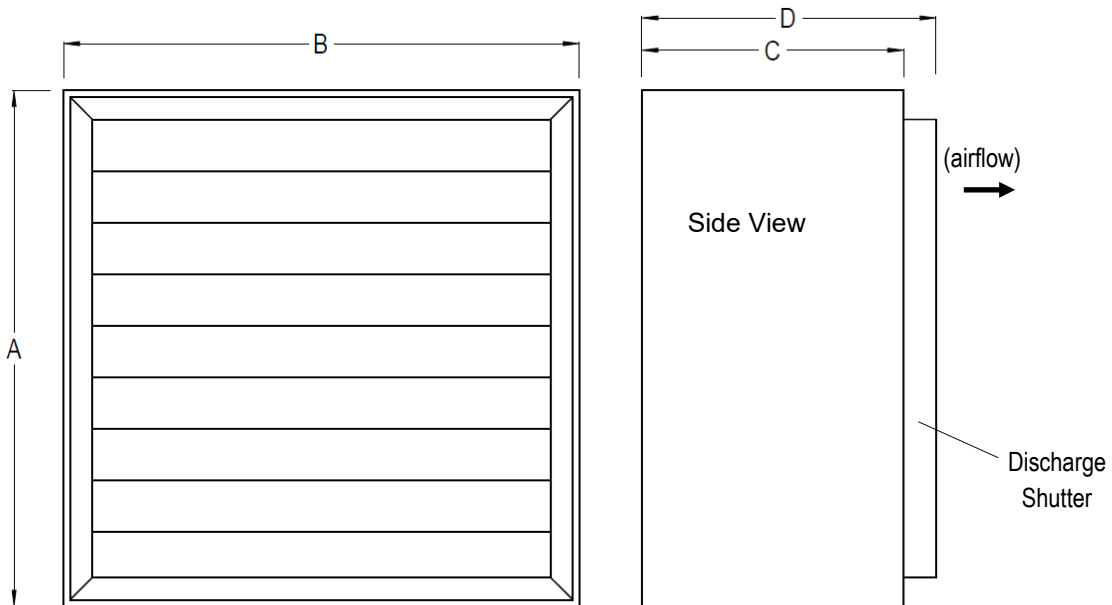
### **Caution:**

1. Read and follow all instructions, cautions, dangers and warnings. Failure to do so could result in personal injury, death or property damage.
2. Make sure the electrical power source conforms to the requirement of the fan(s) as well as local codes.
3. Electrical connections, installation and maintenance must be done by qualified electrical personnel in accordance with all applicable codes and ordinances.
4. Unit must be adequately grounded.
5. To reduce the risk of fire or electrical shock, do not expose this fan to water.
6. Do not touch electrically live components.
7. Free rotation of the propeller is critical. It must not touch any part of the venturi or framework.
8. Assure that all power cords do not come in contact with any sharp edges, hot surfaces or chemicals. Immediately replace any damaged cords.
9. Before operating your new fan, ensure propeller is torqued properly and all fasteners, screens and shutters are securely in place.

**OSHA compliant guards must be in place when fan is installed within 7ft of the floor or working level.**

# Specifications

Model	Prop Dia.	Dimension (In.)				Rough-in Opening (In.)		Unit Weight (lbs)
		A	B	C	D	Height	Width	
36D370S	36"	40 1/8	40 1/8	14	16	40 3/4	40 3/4	110
36D370TS	36"	40 1/8	40 1/8	14	16	40 3/4	40 3/4	110
36DL750S	36"	40 1/8	40 1/8	24	26	40 3/4	40 3/4	130
36DL750TS	36"	40 1/8	40 1/8	24	26	40 3/4	40 3/4	130
36XL550S	36"	40 1/8	40 1/8	24	26	40 3/4	40 3/4	130
36XL750S	36"	40 1/8	40 1/8	24	26	40 3/4	40 3/4	155
36XL750TS	36"	40 1/8	40 1/8	24	26	40 3/4	40 3/4	155
42DL750S	42"	46 1/8	46 1/8	24	26	47	47	150
42DL750TS	42"	46 1/8	46 1/8	24	26	47	47	150
42XL750S	42"	46 1/8	46 1/8	24	26	47	47	175
42XL750TS	42"	46 1/8	46 1/8	24	26	47	47	175
42XL1125S	42"	46 1/8	46 1/8	24	26	47	47	190
42XL1125TS	42"	46 1/8	46 1/8	24	26	47	47	190
48XL750S	48"	52 1/8	52 1/8	24	26	53	53	190
48XL750TS	48"	52 1/8	52 1/8	24	26	53	53	190
48XL1125S	48"	52 1/8	52 1/8	24	26	53	53	205
48XL1125TS	48"	52 1/8	52 1/8	24	26	53	53	205



## Fan Installation

For framing dimensions, refer to rough-in opening height and width shown in the specifications above.

Fan is designed to mount in wall with air discharging towards the outside. Center fan weight in opening.

Position the fan in the wall with the discharge shutter facing to the outside of the building. Louvers hang down, closed completely.

Ensure the fan is fastened securely in the opening to avoid excess "rattling" or vibration using proper fasteners. Fasteners not included.

Aluminum or iron angle is recommended on sides/top/bottom of fan to attach fan to wall and help close rough-in gap around fan. Angle should attach to fan housing and wall opening frame to securely hold fan in place.

Fan support bracing(wall brackets) should be used to properly support portion of fan that hangs out of opening.

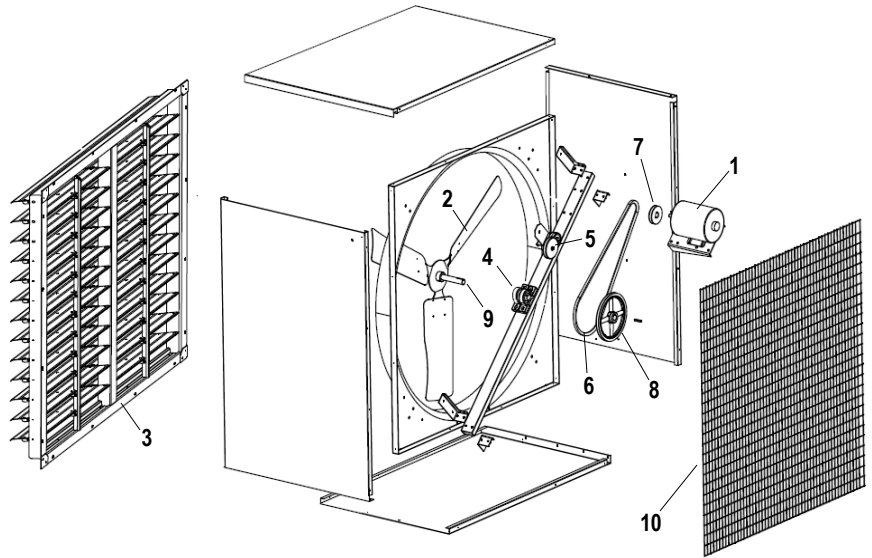
Seal around fan to prevent air leakage.

Refer to motor nameplate for wiring diagram.

# Repair Parts Illustration

## Belt Drive Fans

No	Description	36XL550S	36XL750S	36XL750TS
1	Motor	A550-4CE	A750-4CE	A750-4T
2	Prop	9001565	-	-
3	Shutter	SA36	SA36	SA36
4	Bearings	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK
5	Tensioner	BTI	BTI	BTI
6	Belt	AX51	-	-
7	Motor Sheave	AK3958	-	-
8	Driven Pulley	AKN9410	-	-
9	Shaft	FS7.5	FS7.5	FS7.5
10	Screen	36SCREEN	36SCREEN	36SCREEN



Note: Prop drawing does not represent all models. Number of fan blades will vary by model.

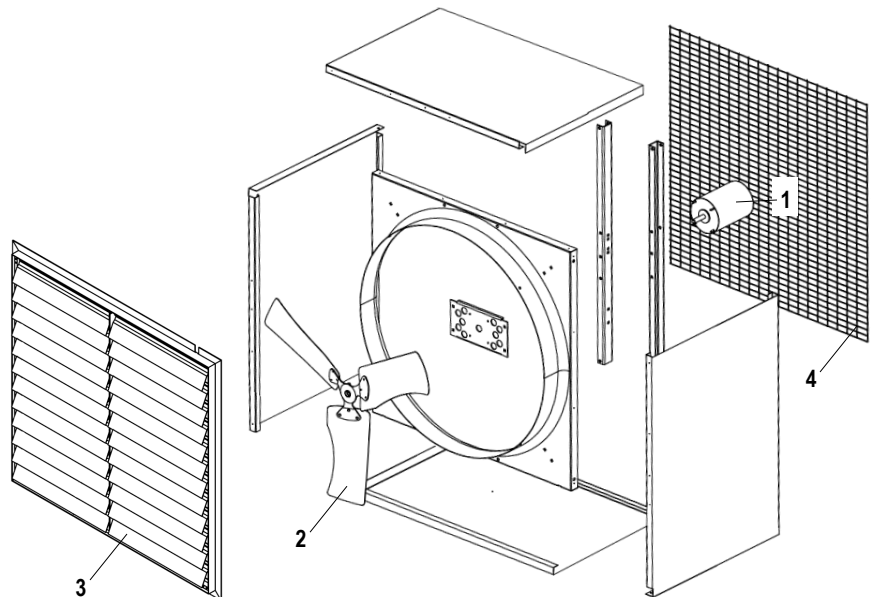
No	Description	42XL750S	42XL750TS	42XL1125S	42XL1125TS	48XL750S	48XL750TS	48XL1125S	48XL1125TS
1	Motor	A750-4CE	A750-4T	A1125-4	A1125-4T	A750-4CE	A750-4T	A1125-4	A1125-4T
2	Prop	9001398	9001398	9001398	9001398	-	-	-	-
3	Shutter	SA42	SA42	SA42	SA42	SA48	SA48	SA48	SA48
4	Bearings	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK	UCP20516 LDK
5	Tensioner	BTI	BTI	BTI	BTI	BTI	BTI	BTI	BTI
6	Belt	AX53	AX53	-	-	-	-	-	-
7	Motor Sheave	AK2858	AK2858	-	-	-	-	-	-
8	Driven Pulley	AKN9410	AKN9410	-	-	-	-	-	-
9	Shaft	FS7.5	FS7.5	FS7.5	FS7.5	FS7.5	FS7.5	FS7.5	FS7.5
10	Screen	42SCREEN	42SCREEN	42SCREEN	42SCREEN	48SCREEN	48SCREEN	48SCREEN	48SCREEN

No	Description	36D370S	36D370TS	36DL750S	36DL750TS	42DL750S	42DL750TS	-	-
1	Motor	B370-8ENY	B370-8T	A750-8VE	A750-8TVE	A750-8VE	A750-8TVE	-	-
2	Prop	9001672	9001672	-	-	-	-	-	-
3	Shutter	SA36	SA36	SA36	SA36	SA42	SA42	-	-
4	Screen	36SCREEN	36SCREEN	36SCREEN	42SCREEN	42SCREEN	42SCREEN	-	-

# Repair Parts Illustration

## Direct Drive Fans

Note: Prop drawing does not represent all models. Number of fan blades will vary by model.



## Performance

Model	HP	F.L.A.	Volt.	Ph	Hz	Motor RPM	CFM				Dbs @ 7ft 0.0SP
							0.0" SP	0.1" SP	0.2" SP	0.3" SP	
36D370S	1/2	5.2/2.8-2.6	115/208-230	1	60	825	10,300	8,700	7,180	-	76
36D370TS	1/2	2.3-2.2/1.1	208-230/460	3	60	825	10,315	8,730	7,185	-	76
36DL750S	1	11.0/5.8-5.5	115/208-230	1	60	825	12,510	10,635	8,830	6,045	78
36DL750TS	1	4.8-4.6/2.3	208-230/460	3	60	825	12,505	10,625	8,825	6,035	78
36XL550S	3/4	6.4/3.4-3.2	115/208-230	1	60	1725	11,010	9,580	8,210	5,470	73
36XL750S	1	9.4/5.0-4.7	115/208-230	1	60	1725	12,005	10,450	9,015	6,675	77
36XL750TS	1	3.8-3.6/1.8	208-230/460	3	60	1725	12,010	10,460	9,025	6,690	77
42DL750S	1	11.0/5.8-5.5	115/208-230	1	60	825	15,570	12,540	11,140	6,905	80
42DL750TS	1	4.8-4.6/2.3	208-230/460	3	60	825	15,565	12,530	11,135	6,900	80
42XL750S	1	9.4/5.0-4.7	115/208-230	1	60	1725	15,450	12,490	11,135	7,080	79
42XL750TS	1	3.8-3.6/1.8	208-230/460	3	60	1725	15,455	12,495	11,135	7,085	79
42XL1125S	1 1/2	13.2-13.0	208-230	1	60	1725	18,150	15,695	12,780	10,420	81
42XL1125TS	1 1/2	5.0-4.8/2.4	208-230/460	3	60	1725	18,145	15,690	12,770	10,415	81
48XL750S	1	9.4/5.0-4.7	115/208-230	1	60	1725	19,020	17,015	14,670	11,070	80
48XL750TS	1	3.8-3.6/1.8	208-230/460	3	60	1725	19,035	17,030	14,685	11,080	80
48XL1125S	1 1/2	13.2-13.0	208-230	1	60	1725	23,740	21,545	18,435	13,930	82
48XL1125TS	1 1/2	5.0-4.8/2.4	208-230/460	3	60	1725	23,735	21,555	18,450	13,985	82

## Troubleshooting Guide

Symptom	Possible Cause(s)	Corrective Action
Fan will not start	<ol style="list-style-type: none"> <li>1. Tripped circuit breaker</li> <li>2. Defective motor</li> <li>3. Incorrectly wired</li> <li>4. Electricity turned off</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset circuit breaker</li> <li>2. Repair or replace</li> <li>3. Shut off power, check for proper connections</li> <li>4. Contact local power company</li> </ol>
Excessive noise or vibration	<ol style="list-style-type: none"> <li>1. Blade is hitting housing</li> <li>2. Blade is bent</li> <li>3. Fan not securely anchored</li> <li>4. Bad/noisy motor bearings</li> </ol>	<ol style="list-style-type: none"> <li>1. Free blade of obstruction</li> <li>2. Replace blade</li> <li>3. Secure properly</li> <li>4. Replace motor</li> </ol>
Insufficient airflow	<ol style="list-style-type: none"> <li>1. Incorrect voltage applied</li> <li>2. Defective motor</li> <li>3. Propeller is damaged</li> <li>4. Airflow is blocked</li> <li>5. Not enough intake air</li> <li>6. Fan is dirty</li> </ol>	<ol style="list-style-type: none"> <li>1. Wire properly</li> <li>2. Replace motor</li> <li>3. Replace propeller</li> <li>4. Remove obstructions</li> <li>5. Add additional air intake openings</li> <li>6. Clean fan guards/screens, motor and propeller</li> </ol>
Motor overheats or trips out	<ol style="list-style-type: none"> <li>1. Over/under line voltage</li> <li>2. Defective motor</li> <li>3. Fan is dirty.</li> <li>4. Not enough intake air</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact local power company</li> <li>2. Replace motor</li> <li>3. Clean fan guards/screens, motor and propeller</li> <li>4. Add additional air intake openings</li> </ol>

## Maintenance

Periodic maintenance schedules should be set to assure reliability and performance of the fan. This maintenance should include inspection of all fasteners & drive components, checking propeller torque and proper cleaning of the complete fan assembly.

Check for excessive vibration while fan is running.

Periodically inspect and tighten all set screws and hardware.

Ensure all mounting hardware, chains, etc. are properly secured.

Motors feature permanently sealed ball bearings and require no further lubrication.

The fan propeller should be periodically cleaned to assure proper balance and performance.