

**CITY OF SACRAMENTO**  
1231 I Street, Sacramento, CA 95814

**Permit No: 0010237**  
**Insp Area: 1**

**Site Address: 1501 16TH ST SAC**  
Parcel No: 006-0234-003

Sub-Type: TI  
Housing (Y/N): N

CONTRACTOR  
MSB INC  
30665 OLD HYW 395  
ESCONDIDO CA. 92026

OWNER  
STATE OF CALIFORNIA  
650  
SACRAMENTO CA 95814

ARCHITECT

**Nature of Work: IST TIME T/I ( INTERIOR ONLY )**

**CONSTRUCTION LENDING AGENCY :** I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name \_\_\_\_\_ Lender's Address \_\_\_\_\_

**LICENSED CONTRACTORS DECLARATION:** I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class B License Number 450395 Date 4-17-01 Contractor Signature Jim Fracker

**OWNER-BUILDER DECLARATION:** I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00):

\_\_\_\_ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code). The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

\_\_\_\_ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code). The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law)

\_\_\_\_ I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_

Date \_\_\_\_\_ Owner Signature \_\_\_\_\_

**IN ISSUING THIS BUILDING PERMIT,** the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 4-17-01 Applicant/Agent Signature Jim Fracker

**WORKER'S COMPENSATION DECLARATION:** I hereby affirm under penalty of perjury one of the following declarations:

\_\_\_\_ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued

X I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND Policy Number 1429886 Exp Date 02/01/2002

\_\_\_\_ (This section need not be completed if the permit is for \$100 or less). I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 4-17-01 Applicant Signature Jim Fracker

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.**

**THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.**

CITY OF SACRAMENTO

**CERTIFICATE OF OCCUPANCY**

For Information Contact (916) 264-5716

Building Address: 1501 - 16<sup>TH</sup> ST Permit No. 0010237

Building Use: T.I. DBA: SUPER CUTS Occupancy: B

Building Owner: STATE OF CALIFORNIA Construction Type: I-FR

Owner Address: SACRAMENTO Sprinkled? [ X ] Yes [ ] No

Portion of Building Occupied: SUITE 107 Area: 1237 Sq. Ft.

5/17/01 W. Harris DENNIS RICHARDSON  
Date By:Print Sign CITY BUILDING OFFICIAL

[ Finaled By:GTD,MJS,JZB,KW CP ]

*This Certificate, issued pursuant to the requirements of Section 109 of the Uniform Building Code, certifies that at time of issuance the described portion of the building has been inspected for compliance with the Uniform Building Code, as adopted per Title 15 of the Sacramento City Code for the group and division of occupancy and use for which the proposed occupancy is classified. Issuance of this certificate shall not be construed as an approval of a violation of any Codes, or Federal, State and City Laws or Ordinances. Certificates presuming to give authority to such violation shall not be valid. This certificate shall be posted in a conspicuous place on the premises and shall not be removed except by the City Building Official. No changes shall be made in the character of occupancy or use without approval of the City Building Official.*

**POST IN A CONSPICUOUS PLACE**

**CITY OF SACRAMENTO**  
**BUILDING INSPECTION DIVISION**  
**APPLICATION FOR BUILDING PERMIT - HAZARDOUS MATERIAL SURVEY**

*As Required by Assembly Bill #3205 - A Building Permit Cannot be Approved Without This Completed Form*

1. Business Name: Super Cuts Phone: \_\_\_\_\_  
 Site Address: 1501-16<sup>th</sup> St Suite: 107  
 (Street) (Zip)  
 Business Owner/Representative: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Nature of Business: Hair Salon  
 Property Owner: State of California Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Suite: \_\_\_\_\_  
 (Street) (City) (State) (Zip)

2. Are you developing an undetermined tenant space? Yes \_\_\_ No  Is this permit for a shell building? Yes \_\_\_ No

Notify lessee of the responsibility to coordinate with the Fire Department regarding the use and handling of hazardous materials.

3. Does/Will your business generate hazardous waste? Yes \_\_\_ No

4. Does/Will your business handle, store or transport any solid, liquid, or gaseous chemicals? Yes \_\_\_ No

**CONSULT THE EPA CHEMICAL LIST LOCATED AT THE BUILDING DIVISION COUNTER FOR HAZARDOUS OR ACUTELY HAZARDOUS MATERIALS TO COMPLETE THE FOLLOWING QUESTIONS.**

If you answered "YES" to questions #3 and/or #4 above, continue on to questions 5 - 8.

5. Do you handle, store, or transport 55 gallons, 500 pounds, or 200 cubic feet (at Standard Temperature or Pressure) of a product or formulation containing hazardous materials at any one time? Yes \_\_\_ No \_\_\_

6. Do you handle, store or transport any amount of acutely hazardous materials? Yes \_\_\_ No \_\_\_

7. Is/Will your business be located within 1,000 feet of a school? Yes \_\_\_ No \_\_\_

If you answered "yes" to questions #6 and/or #7, complete the RMPP Informational sheet.

8. Is/Will your business be located within 1,000 feet of a hospital, and/or long-term healthcare facility? Yes \_\_\_ No \_\_\_

IF YOU ANSWERED "YES" TO QUESTION #3 AND/OR #4, PLEASE CONTACT THE CITY OF SACRAMENTO FIRE DEPARTMENT LOCATED AT 1231 I STREET, SUITE 401, SACRAMENTO, CA OR CALL 449-5416.

***Prior to issuance of a certificate of occupancy, each business owner(s) shall contact the City of Sacramento Fire Department and comply with the Health and Safety Code regarding the use and handling of hazardous materials.***

**PENALTY:** Any business that violates Section 25531-25541 of the Health and Safety Code shall be civilly liable to the administering agency in an amount of not more than two thousand dollars (\$2,000) for each day in which the violation occurs. If the violation results in, or significantly contributes to, an emergency, including a fire, the business shall also be assessed the full cost of the city emergency response, as well as the cost of cleaning up and disposing of the hazardous materials. Additional liability and punishment may be assessed for knowing a violation after reasonable notice of the violation.

Applicant's Name: Marty Bate  
 (Print)  
Marty Bate (Signature) 4-17-04 (Date)

BID Use Only: Plan Ck# _____ Permit # _____	
OK to issue prmt? Y _____	F.D. Appr Req'd? Yes No _____
init date _____	
Hold on Certificate of Occupancy? Yes No _____	
Fire Dept. Use Only:	
OK to issue permit? ini' _____	date _____
OK to issue Certificate of Occupancy? init _____	
date _____	

# APPLICATION FOR COMMERCIAL BUILDING PERMIT

**CITY OF SACRAMENTO**  
 DEVELOPMENT SERVICES DIVISION  
 PERMIT SERVICES SECTION

1231 I Street, Rm. 200  
 Sacramento, CA 95814 (916) 264-7619 FAX 264-7046

ACTIVITY # 00-10237 Insp. Area 1C

Applicant **MUST** complete ALL Unshaded areas

ADDRESS 1501 16th St Suite \_\_\_\_\_  
 PARCEL # 006-0234-023

<p style="text-align: center;"><b>CONTACT</b></p> <p>Name <u>Scott Shuhr/EXPRESS PERMITS</u>                  Street Address <u>1327 Post Ave Ste. H</u>                  City/State/Zip <u>TORRANCE, CA 90501</u>                  Phone <u>310-328-6300 x110</u> FAX <u>310-328-2530</u>                  E-mail: _____</p>	<p style="text-align: center;"><b>LICENSED CONTRACTOR</b> Lic No. # _____</p> <p>Name <u>out to BTF</u>                  Address _____                  City/State/Zip _____                  Phone _____ FAX _____                  E-mail: _____</p>
<p style="text-align: center;"><b>ARCHITECT/ENGINEER</b> C-23248</p> <p>Name <u>Philip Broussard/EXPRESS PERMITS</u>                  Address <u>1327 Post Ave Ste. H</u>                  City/State/Zip <u>TORRANCE, CA 90501</u>                  Phone <u>310-328-6300 x110</u> FAX <u>310-328-2530</u>                  E-mail: _____</p>	<p style="text-align: center;"><b>OWNER</b></p> <p>Name <u>John Peckard STATE OF CALIF</u>                  Address <u>2206 V St Ste 3</u>                  City/State/Zip <u>SACRAMENTO, CA 95816</u>                  Phone <u>916-443-8300</u> FAX _____                  E-mail: _____</p>

→ Will permittee have any employees on the jobsite?  No  Yes → INSURANCE CO: \_\_\_\_\_  
 → WORKER'S COMPENSATION POLICY # \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

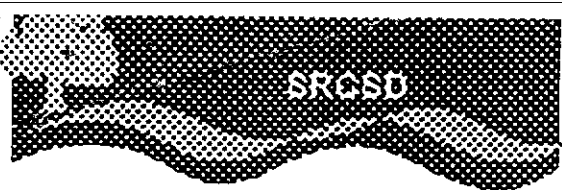
NATURE OF WORK IN DETAIL: Interim ~~ONLY~~ 1st TIME T/I

OCCUPANT/TENANT: SUPER CUTS VALUATION: \$ 13555

FLOOD STATUS: <u>NR</u>		S.C.A.T.							
JOB DESCRIPTION		BLDG	SHELL	APT	TI ( )	SW	FIRE	ADD	OTH
INSPECTION DISCIPLINES		BLDG	MECH	PLUMB	ELEC	SITE	FIRE		
# Stories	1st flr Area	Total Area	Use Zone	Occp Group	Const type	Fire Reg. Y/N	Fed Code	Vio. File	
		<u>1233</u>		<u>B</u>	<u>I FR</u>	SPR ALARM	<u>18</u>	[H]	[Quad]
<u>B</u>	<u>L</u>	<u>P</u>	<u>M</u>	<u>E</u>	<u>F</u>	<u>S</u>	<u>D</u>	PW	UTIL
					<u>13 B5F</u>		<u>1302</u>		

COMMENTS: Fire Sprinkler Relocation on ON SHEET MP-1  
APPROVED AS NOTED - BTF 9-6-00  
FIND OUT FROM DLORES. MAYBE EX LETTER

REGIONAL SANITATION FEES  Yes  No HEALTH DEPARTMENT?  Yes  No  
 WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS?  Provided  Faxed



REQUEST FOR SEWER FEE QUOTE 00-10237

DATE	9-1-00			NUMBER OF PAGES	
FROM	City of	REQUESTOR		FAX	PHONE
TO	SRCSD Customer Service	RESPONDER		FAX	875-6253

URGENT -- Applicant is in office or ready to pay permit  
 If urgent, call 875-6820 to notify an Engineering employee that you faxed a request.  
 Press zero to speak to the operator.

NOT URGENT -- Applicant has requested informal quote

Applicant	NAME Scott Stuhr		PHONE 310-328-6300 x110 310-328-2530 FAX	
Property	ASSESSOR'S PARCEL NUMBER(S) 006-0234-003		PROPERTY ADDRESS 1501 16 <sup>TH</sup> ST	
Project	PLAN CHECK # BUILDING PERMIT NO	CURRENT // PREVIOUS		PLANNED
	00-10237	First time T/1		1237#
		HAIR SALON		
	SQUARE FOOTAGE	CURRENT // PREVIOUS		PLANNED
		First time T/1		1237# supercuts
		HAIR SALON		

FAXED 9-1-00 11:10AM RSB

**A URGENT -- Applicant is in office or ready to pay permit**

If urgent, call 875-6820 to notify an Engineering employee that you faxed a request.  
Press zero to speak to the operator.

**NOT URGENT -- Applicant has requested informal quote**

Applicant	NAME <b>Scott Stuhr</b>		PHONE <b>310-528-6300 x110</b> <b>310-328-2530 FAX</b>	
Property	ASSESSOR'S PARCEL NUMBER(S) <b>006-0234-003</b>	PROPERTY ADDRESS <b>1501 16<sup>TH</sup> ST</b>		
Project	PLAN CHECK # BUILDING PERMIT NO <b>00-10237</b>	TYPE OF PERMIT New construction <input checked="" type="checkbox"/>	Remodel <input type="checkbox"/>	Change in use <input type="checkbox"/>
	USE	CURRENT // PREVIOUS <b>First time T/1</b>	PLANNED <b>1237 #</b>	
	SQUARE FOOTAGE	CURRENT // PREVIOUS <b>First time T/1</b>	PLANNED <b>1237 # supercuts</b>	

9680 ECOLOGY LANE • SACRAMENTO, CALIFORNIA • 95827-3881  
ENGINEERING (916) 875-6820 • FAX (916) 875-6253

bnkfrms:feeqot.frm (06/20/97 twg) 2

0000		OK	001/001	916 875 6253	00.24	09/01 10:17
S.CODE	ERROR PAGES	RESULT	PAGES	DISTANT STATION ID	TIME	DATE/TIME

TX	MODE	BOX	GROUP
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ID=DEVELOPMENT SERVICES  
09/01/00 10:17

MESSAGE CONFIRMATION

6142

**MSB, INC.**

30665 OLD HIGHWAY 395 PH. 760-751-5050  
ESCONDIDO, CA 92026

DATE 4-17-01 90-7177-3222

PAY TO THE ORDER OF

County of Sacramento

\$ 1394.00

one thousand three hundred ninety four 00/100

DOLLARS

CALIFORNIA FEDERAL BANK FSB  
FALLBROOK, CA 90292

FOR sewer impact fee

*Marshall E. Caston*

⑈006142⑈ ⑆322271779⑆ ⑈389 4007016⑈

COUNTY SANITATION DISTRICT NO. 1  
SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT  
*4-17-01* **SEWER IMPACT FEE**  
PERMIT AND CALCULATION SHEET



**Sacramento Regional  
County Sanitation  
District**

10545 Armstrong Avenue  
Suite 101  
Mather, California  
95655

**Marshall Caston**  
Senior Engineering  
Technician  
Customer Service/Sewer  
Fees

Office: [916] 876-6013  
Fax: [916]

E-mail: castonm@saccounty.net

Technology in balance with nature

APPLICATION NO:	BLDG PERMIT NO:
GENERAL INFORMATION	THIS PERMIT GOOD ONLY WHEN VALIDATED BY THE CASHIER
	THIS PERMIT TO CONNECT EXPIRES ONE YEAR FROM DATE OF ISSUANCE

FEE CALCULATION		BUILDING USE	
INSPECTION		RESIDENTIAL SF <input type="checkbox"/> MF <input type="checkbox"/>	
CSD-1		COMMERCIAL USE	UNITS
SRCSD	<i>#1394</i>	<i>SUPER CUTS</i>	
CONSTRUCTION		<i>1237#'</i>	
IN-LIEU			
<b>TOTAL FEE</b>	<b><i>\$1394</i></b>		

APN: 006-0234-003

DESCRIPTION/  
SUBDIVISION \_\_\_\_\_ LOT: \_\_\_\_\_

PROPERTY ADDRESS 1501 16th ST.

OWNER SUPER CUTS

MAILING ADDRESS \_\_\_\_\_

CITY-STATE-ZIP \_\_\_\_\_ PHONE \_\_\_\_\_

ADDITIONAL FEES MAY BE DUE IF CHANGES IN USE INCREASE SEWER IMPACT.

APPLICANT SIGNATURE \_\_\_\_\_

CONSOLIDATED UTILITY BILLING USE ONLY

ACCT \_\_\_\_\_ INPUT \_\_\_\_\_ START \_\_\_\_\_

**PAID**  
APR 17 2001  
*Marshall Caston*

**AIR BALANCE REPORT**

Job: Supercuts 9765

Location: Fremont Building  
Sacramento, CA

Type - split system 3- ton

## FCU #1

	Diffuser CFM	Return Air	Outside Air
Work area #1	445	724	465
Work area #2	430		
office 1 #4	190		
office 2 #5	110		

## FCU #3

	Diffuser CFM	Return Air	Outside Air
Work area #1	405	730	460
Work area #2	390		
Work area #3	395		

Please add to  
File for microfilm

0010237

1501 16<sup>th</sup> St  
Suite 107



# **SUPERCUTS**

7201 METRO BOULEVARD • MINNEAPOLIS, MINNESOTA 55438 • (612) 947-7777 • FAX (612) 947-7301

May 11, 2001

**TO:** Mechanical Inspector  
City of Sacramento Building Department  
Sacramento, CA

**RE:** Supercuts #9763  
Freemont Building  
Sacramento, CA

**To Whom It May Concern:**

Regarding the above location, the existing two 3-ton fan coil units are suitable and acceptable for load calculations pertaining to this space. The contractor was instructed to not install the third fan coil unit due to these calculations. The plans stipulate that rigid ducting with exterior wrapped insulation is to be installed; however, the aluma flex duct with insulation installed by the contractor is suitable and acceptable for the Supercuts space in the Freemont Building.

Please find enclosed cut sheets as well as UL listings for inline duct fan for the dryer vent. Please find that all items are suitable.

Should you have any questions or concerns, please do not hesitate to call me. You can reach me directly at 952/947-7883.

Sincerely,



Tom Hickey  
Project Manager  
Design and Construction

TH/lmr

Enclosures



# KANALFLAKT INC.

THE STRAIGHT WAY

**To: All Building Inspectors**

**Re: Use of KANALFLAKT and FANTECH fans in dryer vent boosting applications**

The following documents were compiled to confirm compliance with ILL. requirements for dryer vent booster fans. The first page is a confirmation of our latest Listing under UL File Number E77545 (R). We are currently listed under UL Standards #507 and #705 for power ventilators in conditioned air streams. The next page (#30) is from Standard #705 and paragraph 33.16 is the key statement regarding use in lint laden air streams. This statement allows for the use of a totally enclosed fan motor to exhaust lint laden air by stating that it is not acceptable to use a motor under specific conditions if it is not totally enclosed. On page 14 under the subtitle "Enclosure", paragraph 12.3 states that only totally enclosed motors can be used in duct fans with the motor exposed to the air stream. Page 13, paragraph 10.4, specifies wiring requirements for such a duct fan. Page 6, paragraph 2.7, contains the UL definition of a totally enclosed motor.

If further information or assistance is required, you may contact Lawrin Ellis at KANALFLAKT/FANTECH for clarification.

941

**KANALFLAKT, INC. PHONE: (813) 359-3267  
FAX: (813) 359-3828**

**FANTECH, INC. PHONE: (813) 351-2947  
FAX: (813) 355-0377**

wp:uldryer

(813) 359-3267

1712 Northgate Blvd.  
Sarasota, Florida 34234 USA

FAX (813) 359-3828



10.13 A splice shall be provided with insulation equivalent to that of the wires involved if permanence of spacing between the splice and other metal parts may not be maintained.

10.14 In determining if splice insulation consisting of coated-fabric, thermoplastic, or other type of tubing is acceptable, consideration shall be given to such factors as dielectric properties and resistance to deterioration due to temperature and moisture exposure. Thermoplastic tape wrapped over a sharp edge is not acceptable. An insulated splicing device is acceptable within the limits of its voltage and temperature ratings.

10.15 Wiring shall be located so that it will not be immersed in water as a result of exposure to the weather.

10.16 The means of connecting stranded internal wiring to a wire-binding screw shall be such that loose strands of wire will be prevented from contacting other live parts not always of the same polarity as the wire and from contacting dead metal parts. This may be accomplished by using pressure terminal connectors, soldering lugs, crimped eyelets, soldering all strands of the wire together, or other equivalent means.

### 11. Insulating Material

11.1 Material for mounting uninsulated live parts and for insulating bushings, washers, separators, and barriers shall be porcelain, phenolic composition, or other material acceptable for the application.

11.2 Thermoplastic material may be employed for the sole support of uninsulated live parts if found to have the necessary mechanical strength and rigidity, resistance to flame propagation, dielectric properties, resistance to arcing, thermal endurance, and other properties acceptable for the application.

11.3 A molded part shall be constructed so as to have the necessary mechanical strength and rigidity to withstand the stresses of normal service. Brush caps shall be secured or located so as to be protected from damage that might occur during use.

## 12. Motors

### General

12.1 A motor shall be acceptable for the application and shall be capable of driving the maximum normal load of the ventilator without introducing a risk of fire, electric shock, or injury to persons.

### Enclosure

12.2 A roof- or wall-mounted ventilator motor that is exposed to the main air stream shall be totally enclosed.

Exception: A roof- or wall-mounted ventilator that is marked in accordance with paragraph 33.16 may employ a motor of other than the totally enclosed type if the motor is provided with inherent overtemperature protection complying with the requirements for running and locked-rotor protection.

12.3 A duct-fan motor that is exposed to the main air stream shall be totally enclosed. See paragraph 10.4.

### Protection

12.4 A ventilator employing a motor that must be cooled by the main air stream to prevent overheating when operating continuously — an air-over motor — shall incorporate automatically reset inherent overtemperature protection.

12.5 For a ventilator employing a motor other than as described in paragraph 12.4, automatically reset thermal or overcurrent motor protection shall be incorporated in the ventilator.

Exception: A ventilator that is marked in accordance with paragraph 33.5 need not have thermal or overcurrent motor protection. This exception does not apply to the requirements in paragraph 12.2.

12.6 A motor provided with inherent overtemperature protection complying with the Standard for Thermal Protectors for Motors, UL 547, is considered to comply with the requirements in paragraphs 12.4 and 12.5. A motor used with a direct-drive fan or blower need comply only with the requirements for protection during locked-rotor conditions.

DECEMBER 3, 1994

POWER VENTILATORS — UL 708

1

8.22 A field-wiring terminal intended for the connection of a grounded power-supply conductor shall be of or plated with a metal substantially white in color and shall be readily distinguishable from the other terminals, or proper identification of that terminal shall be clearly shown in some other manner, such as on an attached wiring diagram.

8.23 A lead intended to be connected to a grounded power-supply conductor shall be finished to show a white or natural gray color, and shall be readily distinguishable from the other leads.

8.24 The surface of a lead intended for field connection of an equipment-grounding conductor shall be green with or without one or more yellow stripes, and no other lead shall be so identified.

8.25 The requirements in paragraphs 8.22—8.24 relating to color coding do not apply to internal wiring that is not visible in a field-wiring compartment.

8.26 The free length of a lead inside an outlet box or wiring compartment shall not be less than 6 inches (152 mm) nor more than 8 inches (203 mm).

Exception: A lead may be less than 6 inches long if it is evident that a longer lead might result in a risk of fire or electric shock.

**9. Current-Carrying Parts**

9.1 A current-carrying part shall be silver, copper, a copper alloy, or other material acceptable for the application.

9.2 Plated iron or steel may be used for a current-carrying part (1) if acceptable in accordance with paragraph 3.1 or (2) within a motor or associated governor; but the use of iron or steel for current-carrying parts elsewhere in the ventilator is not acceptable.

Exception: Stainless steel may be used anywhere in the ventilator as a current-carrying part.

**10. Internal Wiring**

10.1 The internal wiring and connections between parts of a ventilator shall be protected or enclosed.

10.2 Type SE, SJE, SJT, SJO, SJOO, SJTO, SJTOO, SO, SOO, ST, STO, STOO cord or appliance wiring material of equivalent construction may be used in a roof- or wall-mounted ventilator without protection other than that provided by the outer enclosure.

10.3 Internal wiring consisting of wire or cord other than that specified in paragraph 10.2 shall be enclosed in metal, such as conduit, metal-clad cable, or the like. The assembly shall be mechanically secure and shall provide an electrical bond between parts.

10.4 Internal wiring in a duct fan shall not be exposed to the main air stream, and shall be installed in accordance with the requirements for wiring in ducts in the National Electrical Code, ANSI/NFPA 70—1981.

10.5 Internal wiring consisting of individual insulated conductors — either separate or in a harness — shall be protected as though it were enameled wire in accordance with paragraph 3.6.

10.6 The internal wiring and connections of a ventilator shall be acceptable for the application with respect to (1) temperature and voltage, (2) exposure to oil, grease, or moisture, and (3) other conditions of service to which they are likely to be subjected.

10.7 Type AF or CF wire is not acceptable.

10.8 Wiring shall be protected from sharp edges, screw threads, burrs, fins, moving parts, and other agents that might abrade the insulation on conductors.

10.9 A hole through which insulated wires pass in a sheet-metal wall within the overall enclosure of a ventilator shall be provided with a smooth, rounded flanging or shall have a smooth, rounded surface upon which the wires may bear to prevent abrasion of the insulation.

10.10 Insulated wires may be bundled and passed through a single opening in a metal wall within an enclosure.

10.11 All splices and connections shall be mechanically secured and shall provide reliable electrical contact.

10.12 A soldered connection shall be mechanically secured before being soldered.

**2.4 COOKING AREA** — An area in close proximity to a stove, range, or oven, where fumes, grease laden air, or the like may be present.

Paragraph 2.4 added April 1, 1982

**2.4A DEODORIZER** — An appliance that has a fan and is intended to treat the air in a relatively small area by the dispersal of chemicals.

Paragraph 2.4A added July 24, 1984

**2.5 DESK FAN** — A fan intended for use on a desk or table, and that may be provided with keyhole slots for wall mounting.

Paragraph 2.5 revised and relocated as paragraph 2.5  
June 20, 1981

**2.6 USER SERVICING** — Any form of servicing, such as routine cleaning and replacement of a fuse or a lamp that might be performed by personnel other than those trained to maintain the appliance.

Paragraph 2.6 added June 20, 1981

**2.7 TOTALLY ENCLOSED MOTOR** — A motor that is enclosed to prevent the free exchange of air between the inside and outside of the enclosure for windings but not sufficiently enclosed to be airtight.

Paragraph 2.7 added April 1, 1982

**2.8 FAN, IN-WALL** — A fan installed in a sleeve through the wall and intended to draw air from the outside or exhaust air from the inside. The fan assembly, which does not include the sleeve, is not permanently attached to the building structure.

Paragraph 2.8 added March 29, 1983

**2.9 FAN, WALL-INSERT** — An exhaust fan permanently attached in a wall without a sleeve.

Paragraph 2.9 added March 29, 1983

**2.10 FAN, CEILING SUSPENDED** — A fan intended to be mounted to a ceiling outlet box or ceiling building structure, and whose blades rotate below the ceiling. Popularly called an "ice cream parlor fan" or "paddle fan."

Paragraph 2.10 added March 29, 1983

*\*Replaces page 6 dated May 1, 1984*

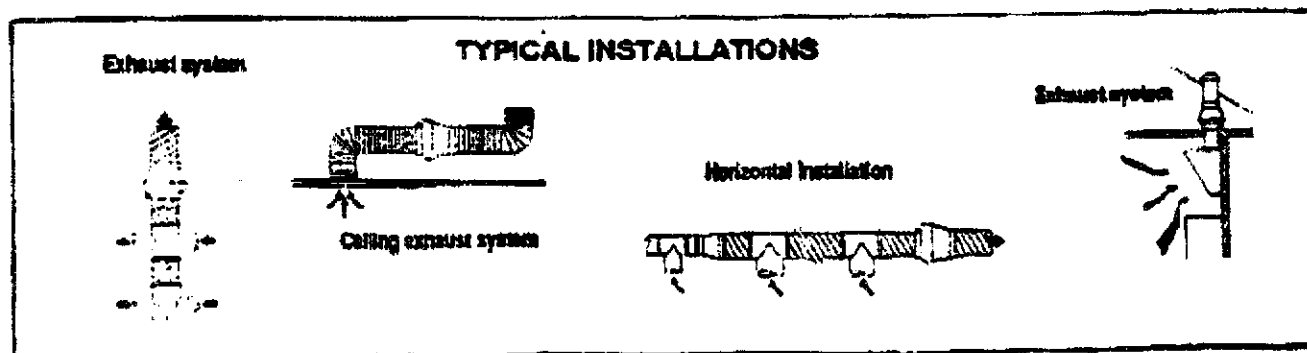
**KANALFLAKT INC.**

AEROSPACE DIV.

1712 Nottogay Blvd., Sarasota, FL 34236

**INSTALLATION & MAINTENANCE  
INSTRUCTIONS****MODELS  
K & KD****INSTALLATION**

1. The compactness of the K and KD series, plus their adaptability to be mounted in any position, permits easy installation. These straight-thru air flow fans can be mounted at any angle from horizontal to vertical.
2. Because this unit has rotating parts, safety precautions should be exercised during every phase of installation, operation and maintenance.
3. **WARNING!** Unless specifically built for hazardous environments, do not use fans where the electrical system could ignite combustible or flammable materials.
4. Remove unit from package and inspect within 15 days after receipt. If damaged, report damage to carrier.
5. Turn centrifugal impeller by hand to assure free rotation. If impeller hits orifice, check screws holding motor bracket. Adjustment can be made by loosening motor bracket screws. Tighten all screws before operating unit.
6. **CAUTION:** Before proceeding with installation, make sure electrical service to fan is locked in "OFF" position. All wiring should be in accordance with local ordinances and the National Electric code. **WARNING!** Check voltage at the fan to assure it corresponds with the motor nameplate.
7. For Model K fans, if bracket is used to mount fan, refer to illustration 1. If suspending Model K fan with hanger straps, refer to illustration 2.
8. For Model KD fans, if equipping fan with isolators, they should be attached at this time. Brackets on the sides of the KD fans have 3/8" holes for overhead suspension; refer to illustration 3. After unit is securely supported, attach duct work.
9. To attach duct work, use duct tape at inlet and outlet to assure good seal. For Model K fans, attach KANAL-FLAKT FK clamps and insert screws through clamp into inlet and outlet flanges. **CAUTION:** Use 1" sheet metal screws to secure duct work to inlet and outlet. It is critical screws penetrate the metal of the inlet flange but not so far as to obstruct the impeller. It may be necessary to angle screws away from impeller.
10. Screen guards must be installed when fan will be within reach of personnel, within seven (7) feet of the working area, or when advisable for safety.

**READ AND SAVE THESE INSTRUCTIONS****WARNING**

KANALFLAKT INC. products are designed and manufactured to provide reliable performance, but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures, and this possibility should be recognized by the user. If these products are used in a life support ventilation system where failure could result in loss or injury, the user should provide adequate back-up ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.



**KANALFLAKT INC.**

THE STRAIGHT WAY

**K SERIES**

**INLINE CENTRIFUGAL DUCT FANS**

12000/JANUARY 1992

- 122-300 CFM
- 4-12 inch round duct sizes
- Great for all supply air and exhaust applications
- Remote mount for quietest installation possible
- Simple to install
- Galvanized steel housing
- 1 year warranty

Introducing the **KANALFLAKT K-SERIES** inline centrifugal fans. These fans are the flagship of our line of problem solving air handling units. The K-SERIES provides an unsurpassed ability to provide static pressure capabilities with extremely low power usage. The quality construction from the sturdy steel housing to the precision balanced motor is obvious, and the applications for this fan are vast. Construction is suitable for most commercial and light industrial applications.



**WHAT MAKES THE K-SERIES DIFFERENT?**

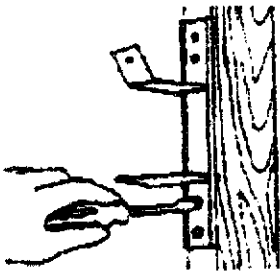
K-SERIES fans are powered by external rotor motors equipped with auto reset thermal overload protection standard. Each unit allows for excellent heat dissipation even at low RPM. All K fans are 100% speed controllable and may be mounted at any angle. Terminal box is pre-wired with capacitor on PSC sizes.



**WE ARE FIRST... BECAUSE WE LAST!**

With the sturdy housing construction and the quality construction of the external rotor motor, the K-SERIES is designed to operate under continuous duty for 10 to 15 years. This is far superior to any other duct type fans using lesser quality components.

# INSTALLATION AND WIRING DIAGRAMS FOR MODEL K DUCT FANS



Fan brackets should be installed, then fan mounted directly to bracket using sheet metal screws.

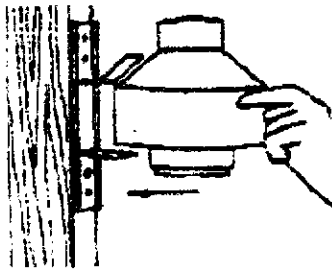
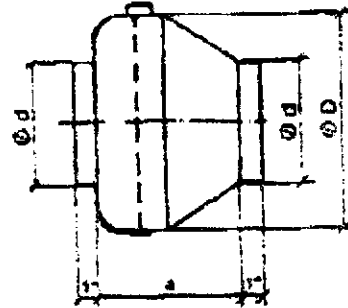


Illustration 1

DIMENSIONAL DATA FOR MODEL K			
MODEL	ØD	Ød	h
K4M	3	4	9 <sup>1/2</sup>
K4XL	3 <sup>1/2</sup>	4	9
K5M	3	5	5 <sup>1/2</sup>
K5XL	3 <sup>1/2</sup>	5	4 <sup>1/2</sup>
K6M	11 <sup>1/2</sup>	8	5 <sup>1/2</sup>
K6XL	13 <sup>1/4</sup>	6	8
K8M, K8L	13 <sup>1/4</sup>	8	6 <sup>1/2</sup>
K10M, K10L	13 <sup>1/4</sup>	10	7
K12M, K12L	16	12 <sup>1/2</sup>	8 <sup>1/2</sup>



Fans may be suspended without special mounting brackets.

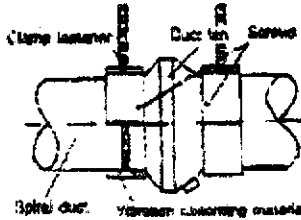


Illustration 2

When suspending Model KD fans, use threaded rods and brackets to attach directly to fan brackets.

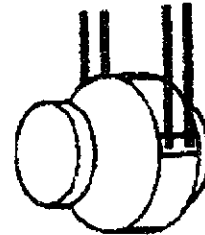


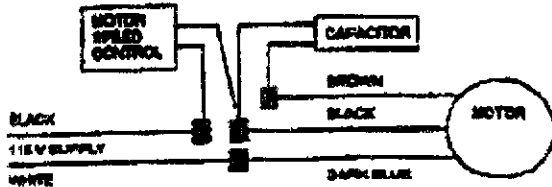
Illustration 3

## SPECIAL WIRING PRECAUTIONS

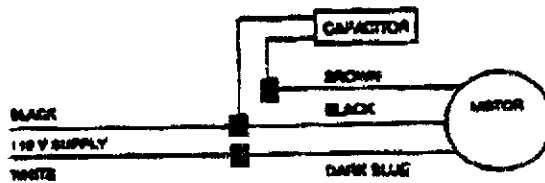
All installation should be wired according to the following diagrams. Failure to comply will cause the motor to "hum" or not work. **WARNING: To reduce the risk of fire or electrical shock, do not use the Model K12L with any solid state speed control device.**

### Instructions for most Model K fans (except Models K4M, K5M and K12L).

WITH MOTOR SPEED CONTROLLER



WITHOUT MOTOR SPEED CONTROLLER



### Special Instructions for Models K4M and K5M only.

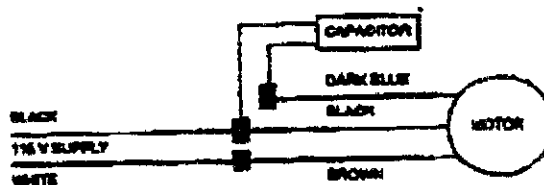
WITH MOTOR SPEED CONTROLLER



WITHOUT MOTOR SPEED CONTROLLER

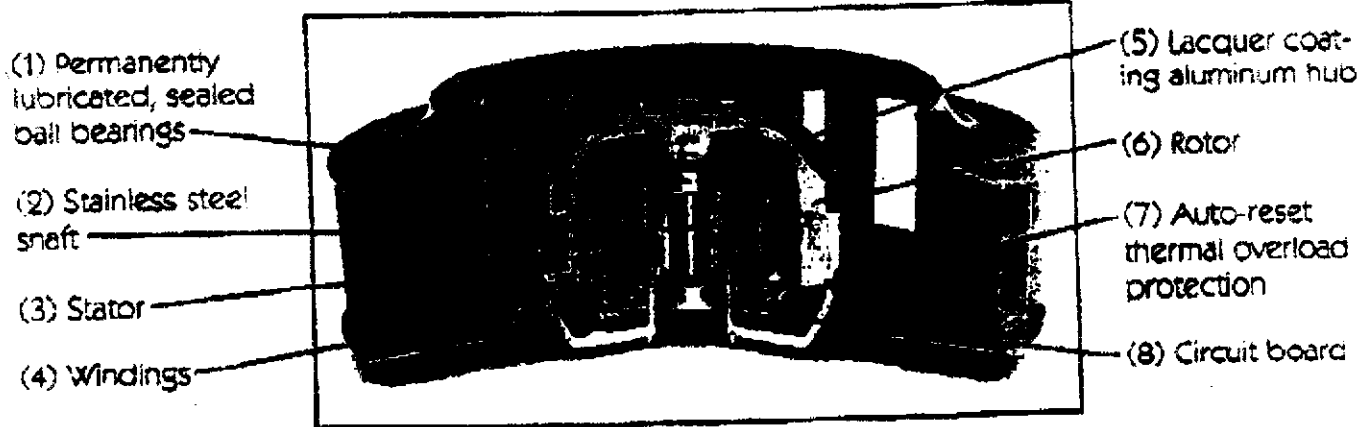


### Special Instructions for Model K12L only.

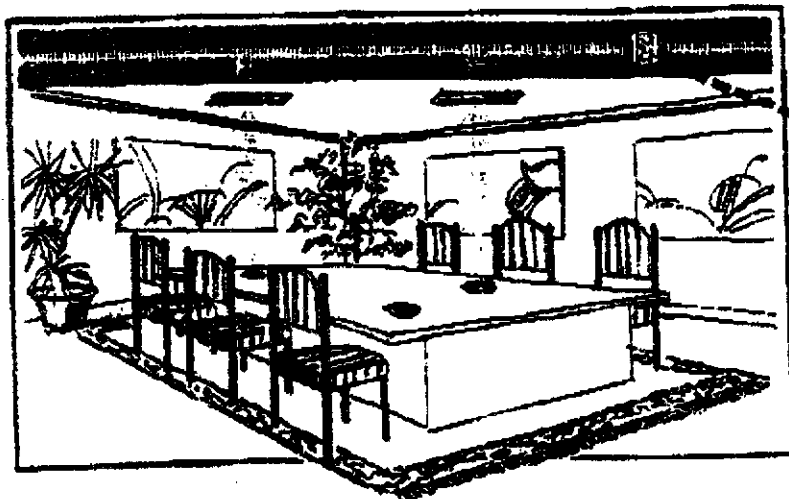


# K SERIES

The heart of the K-SERIES is the unique external rotor motor. Each motor and blade assembly is balanced at the factory to insure optimal results. The backward inclined blade design allows for static pressure capability as well as CFM output. This very unique combination is what sets the K-SERIES apart. Each enclosed motor is lacquer coated to help prevent moisture penetration and allow the fan to operate in "dirty air" applications. There is no maintenance required on these motors, and the ball bearings are permanently sealed for life. Auto reset thermal overload protection "hot spot" is standard and protects motor (from burnout) and will reset motor if overheating occurs.

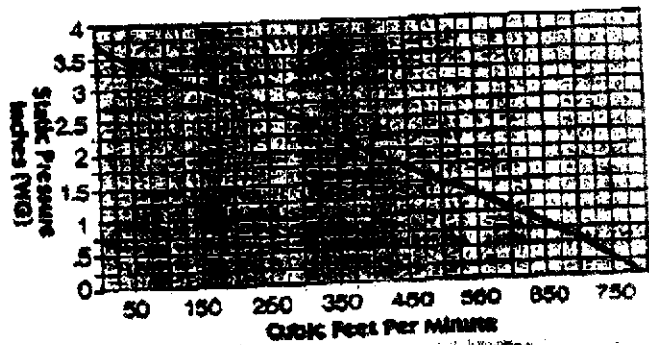
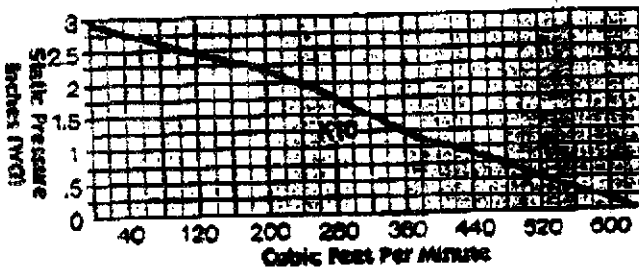
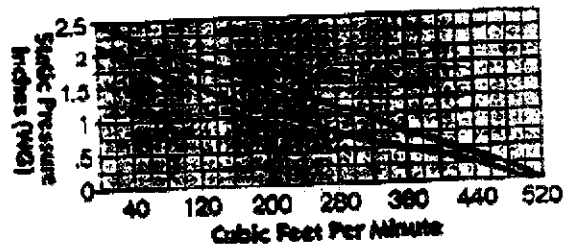
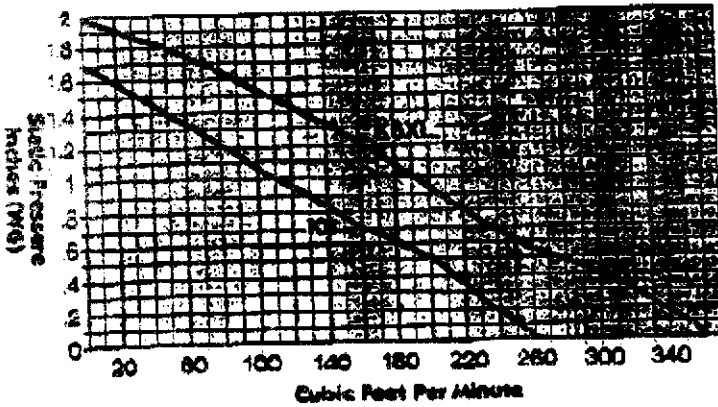
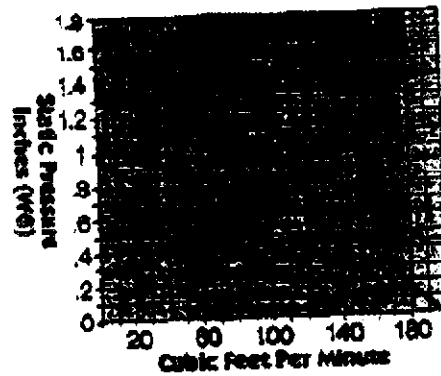
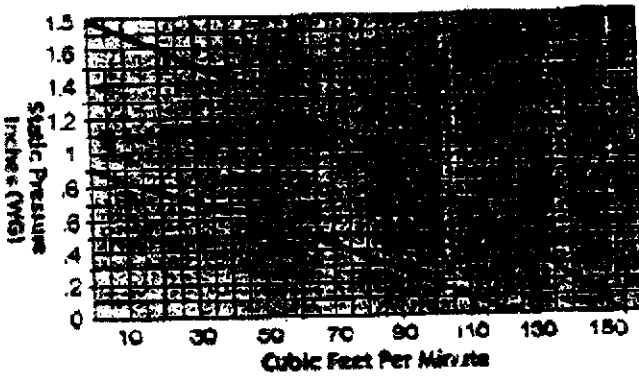


The state of the art, external rotor motor allows for maximum flow and energy efficiency.



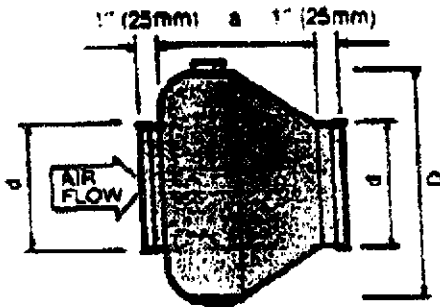
Fans can be mounted at any angle and may be used for most supply and exhaust applications. (Shown here is a commercial conference room exhaust application). Standard square grills or our unique round hush grills may be used.

# PERFORMANCE DATA



MODEL	RAN HP	WATTS	RPM	VOLT	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	DUCT DIA.
K4	1/30	48	3140	115	122	111	88	74	61	48	36	24	12	6"		6"
K4XL	1/30	50	3300	115	120	108	86	72	59	46	34	22	10	6"		6"
K6	1/35	60	3300	115	167	138	128	111	91	78	64	50	38	6"		6"
K50L	1/20	80	3400	115	192	158	138	120	100	84	70	56	42	6"		6"
K6	1/20	90	3300	115	270	220	205	204	180	158	137	110	84	6"		6"
K6XL	1/18	720	2800	115	270	220	205	204	180	158	137	110	84	6"		6"
K8M	1/15	120	2100	115	488	470	447	388	350	296	264	228	198	6"		6"
K8-150	1/12	150	2700	115	522	498	470	408	370	316	284	248	218	6"		6"
K10	1/8	230	3000	115	633	614	588	547	521	453	398	313	260	6"		10"
K12	1/5	175	1810	115	800	787	758	720	680	600	520	440	360	6"		12"

# FAN SPECIFICATIONS



DIMENSIONAL DATA			
MODEL	OD	od	s
K4	3	4	6%
K4XL	3 1/4	4	8
K5	4	5	8%
K5XL	4 1/4	5	4%
K6	5	6	8%
K6XL	5 1/4	6	6
K8	6	8	8%
K8-150	6 1/4	8	8%
K10	8	10	8%
K12	10	12	8%

Dimensions in inches

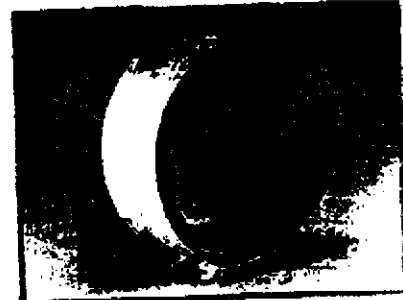
# ACCESSORIES



**10 SUPPLY/EXHAUST GRILLE** - White plastic. Removable for easy cleaning. May be used for exhaust or supply air. Complete with mounting collars. (4, 5, 6, 8" duct sizes)



**BSK BACKDRAFT DAMPER** - Spring loaded - prevents odors from being transferred. Prevents backdrafts. Galvanized sheet metal construction. (Available in 4, 5, 6, 8, 10, 12" duct sizes)



**PC MOUNTING CLAMPS** - Reduces vibration. Works well in ridged ductwork installations. Two clamps needed per fan.



**RPE VARIABLE SPEED CONTROL**  
1 phase, 5 amp speed control  
Allows the exact air flow requirements to be satisfied.

**K-BRACKET** - Sturdy, metal construction attaches directly into fan housing. Easy to install. Available in two sizes. (K1-Bracket for 4, 5, 6" sizes and K2-Bracket for 8 & 10" sizes.)



# KANALFLAKT INC.

THE STRAIGHT WAY

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