

## LEADING EDGE®

Floor Fans  
Commercial

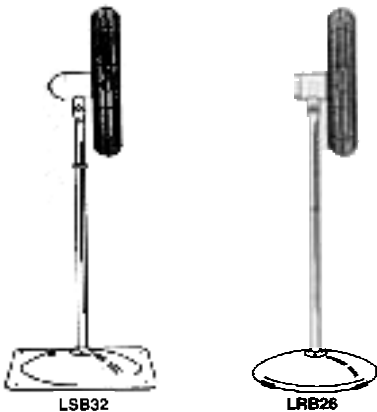


Two-speed, 1/4 HP, single phase, 120V. Ball bearings completely enclosed and permanently lubricated. Thermal overload protection. Permanent split capacitor motor with pull chain switch. Meet OSHA standards. Coated guards. Precision balanced aluminum blades. Pre-assembled motor, blade and guard.

No.	UPC	Blade Size		cfm		rpm	
		In.	Hi	Lo	Hi	Lo	
LCC24H	60112	24	5500	4700	1175	1025	
LCC30H	60115	30	6800	5400	1100	800	

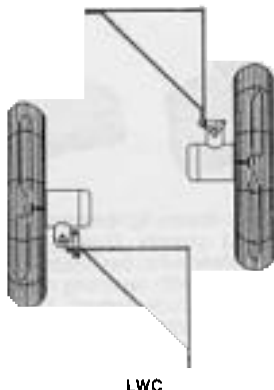
## LEADING EDGE®

Fan Mounts

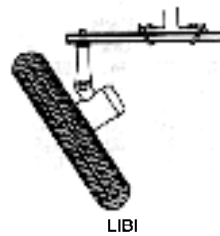


LSB32

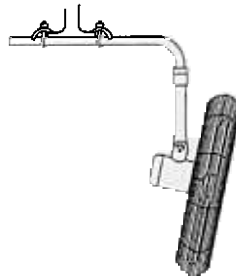
LRB26



LWC



LIBI



LIB

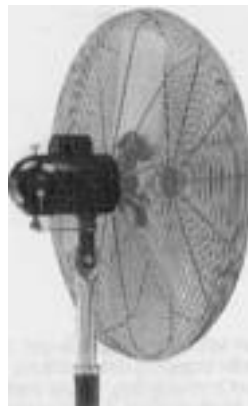


LSSC

No.	UPC	Desc.	Ship. Wt. Lbs.
LSB32	60118	32" Square Pedestal Base	41
LRB26	60221	26" Round Pedestal Base	21
LAPC	60224	Adjustable Pedestal Column	14
LFPC	60227	Fixed Pedestal Column	14
LWC	60230	Wall/Ceiling Mount	5
LIB	60233	I-Beam Mount (Round Pipe)	12
LIBI	60248	I-Beam Mount (Square Channel)	7
LSSC	60236	Secondary Support Cable	1/2

## LEADING EDGE®

Oscillating Fans



For pedestal or wall mount applications. Available in industrial model only. 3 speed. 1/4 HP. 120V. Single phase. Ball bearing permanently lubricated and enclosed. Thermal overload protection. Permanent split capacitor motor. Pull-chain switch.

No.	UPC	Ship. Wt. Lbs.
LN24H-0	60084	24
LN30H-0	60086	30

## PACKAGE ATTIC FANS



Ceiling installation only. Vertical discharge. Order shutters separately. 115V, 60 Hz, one-phase, ball-bearing capacitor type motor.

Blade Size In.	Motor Speed	hp
24	1	1/3
30	1	1/3
36	1	1/3

Complete Information Available on Request.

## AUTOMATIC ATTIC EXHAUST FANS



Automatic shutter and thermostat. Wall opening 21 1/4" x 21 1/4". 16" blade.

Complete Information Available on Request.

## CEILING SHUTTERS

Automatic



For package attic and belt-driven fans. Steel frames. Aluminum leaves.

Size in.	OA Size In.
24	32x36 1/2
30	35 5/8 x 4 1/4
36	39 1/2 x 43 3/8

Complete Information Available on Request.

## AUTOMATIC WALL SHUTTERS



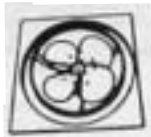
For exhaust fans.

For Fan Size In.	Daylight Open. In.	OA Dim In.
12	14x14	17x17
16	18x18	21x21
18	20x20	23x23
22	24x24	27x27

Complete Information Available on Request.



**DIRECT DRIVE EXHAUST FANS**

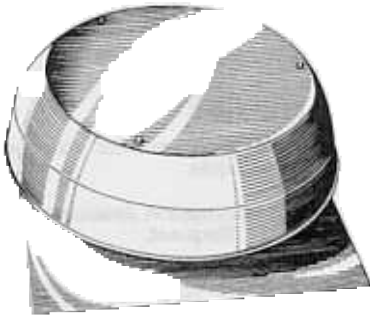


Blade Size  
In.  
12  
16  
18  
22

Speed  
2  
2  
2  
2

Complete Information Available on Request.

**NUTONE Aluminum Roof Fans Model RF-68H**



For larger attics. Ball-bearing motor has automatic reset thermal protection. 120V AC 60 Hz. 13" aluminum axial flow blades (4 fins) with 32° pitch. 24" diameter heavy-gauge aluminum housing is 10 7/8" high. Bird-guard is galvanized hardware cloth. Large one-piece self-flashing flange and venturi design provide complete rain seal. Roof cutout: 14 1/2" between rafters. Easy to install on flat or pitched roofs.

No.	UPC	Motor hp	rpm	cfm
RF-68H	.....	1/4	1530	1500

**NUTONE Ventilators Whole-House**



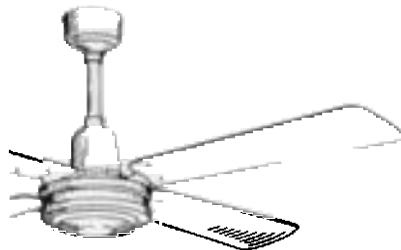
An all-steel, self-framing housing. No plenum or sidewalls to build. 12 1/2" deep from base to tip of the venturi. Designed to fit between 24" o.c. truss construction without cutting anything but the hole in the ceiling. Four spring clips support the housing during mounting. Also can be installed where joists are 16" o.c., by installing cross headers the same size as existing joists. Flange has pre-drilled holes for attaching louver. 2-speed motor.

No.	UPC	HP	Blade Dia.		Watts	Amps	cfm
			In.	In.			
WHV20*	.....	1/4	20	20	550	8.0	3200
WHV24DD	.....	1/4	24	24	340	3.6	2800
WHV30-02	.....	1/4	30	30	480	5.0	4800
WHV30BD	.....	1/4	30	30	545	6.5	5600
WHV36BD	.....	1/4	36	36	615	6.5	6800

\*1-speed motor.

**NUTONE**

**Ceiling Fans Industrial & Commercial**



Paddle type. Energy-saving brown and white enamel fans with 3-metal 16" blades, mounting hardware, and 12" downrod. Extension stems available separately. Direct drive, sealed ball-bearing 120V 60 Hz motor. Max. effective ceiling height 40', recommend 10' from floor. Extend 17 1/4" to bottom of fan. Operate up to 10 fans at single speed with standard switch and 15A circuit breaker; operate one fan using No. PFCSW-5 switch with high, med/high, med/low, low, off settings.

No.	UPC	Finish	cfm	rpm	Amps
48" Blade Dia.					
PFC-48BWN	24020	Brown	10000	275	.60
PFC-48WH	24030	White	10000	275	.60
56" Blade Dia.					
PFC-56BWN	24031	Brown	20000	225	.75
PFC-56WH	24032	White	20000	225	.75

**NUTONE**

**Vacuum Cleaning Systems Built-In**



No. CV-353

Dual filtration with disposable 6-gal. soil bag as primary filter for trapping dirt and dust; secondary filter mounted immediately below motor. Unit installs away from normal living areas, such as basement or garage. Inlet on power unit for cleaning at unit location. On/Off switch located on unit. Fan-cooled 2 or 3-stage universal bypass motors. No special wiring required; operates on separate 15A 120V AC, 50-60 Hz circuit; overload protection and built-in low voltage switch controls. Inlet and exhaust tubes located on same side; 6' cord with 3-pronged, grounded plug; mounting bracket. Steel with white polyester appliance finish; 12" dia. Include 2 disposable bags; normal emptying twice a year. UL Listed.

No.	UPC	HP	Amps	cfm*	Water Lift In.†	Tank Ht. In.
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**With 3-Stage Universal Bypass Motors**

CV-450‡	77450	2-1/2	12.6	96	176	36-1/4
CV-353	77111	2	10.4	94	134	32-1/4
CV-553§	77653	2	10.4	94	134	32-1/4

**With 2-Stage Motors**

CV-350	77101	2	10.0	107	113	30-1/2
CV-352•	77107	1-1/2	7.5	121	97	27

\*Measured at 2" opening.

†Measured at sealed vacuum.

‡With 2 fan-cooled 2-stage universal by-pass motors totaling 2-1/2 HP for larger homes or light commercial applications.

§Draw-Down™ Cyclonic bagless unit; does not include inlet or switch on unit.

•2-Stage thru-flow motor.

**NUTONE**

**Vacuum Accessories Standard Tool Sets**



Complete cleaning tool set. Includes combination floor/rug head with dual wheels; single pedal mechanism adjusts nozzle from floor to carpet position; double orifice baseplate with 2 lint strips; edge-to-edge cleaning in 10 5/8" path; dual-action swivel neck; co-polymer housing. Two chrome-steel wands. Dusting brush and upholstery tool with nylon bristles. Convenient snap-on cloth tool caddy.

No.	UPC	Finish
CK-120	77942	Gray

**NUTONE**

**Vacuum Accessories Central Cleaning**



599

343

**No. 599.** Motor driven lightweight power brush for all types of carpets. Dual brushed edge-cleaning. Motorized roller bar beats dirt from carpet and picks it up with revolving nylon brushes in wide 12 3/4" swath. Automatic height adjustment for floor to carpet cleaning. Front rollers; built-in light; toe-touch On/Off switch. Includes 2 chrome-plated steel wands with retainers to hold 4' long power brush cord.

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**No. 343.** Twin-turbine air-driven brush with belt-pulley design. In front and behind brush blade design. Dual row beater brush automatically adjust for any carpet height. Roller wheels; low-profile; double swivel neck pivots 360°; copolymer housing.

### Brushes

UPC	Desc.	WxDxH in.
77887	Motor Driven	12-3/4x8x3-5/8
77065	Twin-Turbine	11x7-1/8x3-1/4



For mounting 3 vacuum cleaner tools. Snaps into any 1-1/4" wand and stays in position.

### Tool Caddies

No.	UPC	Finish	Desc.
A101G	98189	Gray	Tool Caddy



Nylon brush with removable bristles for easy cleaning.

### Pet Brushes

No.	UPC	Finish	Desc.
CT-109B	98191	Black	Nylon Pet Brush



Chrome-steel 1-pc. wand with button-lock hose end extends from 22" to 39" at 1" intervals. Positive ratchet mechanism locks into place with click of switch.

### Ratcheting Wands

UPC	Desc.
98352	Ratcheting Wand

### NUTONE Ceiling Fans Paddle



Series PFMB



Series PFCH

Reversible fan with 5 wood blades. Operated by 3-speed motor with built-in pull chain to select high, medium, or low. Wall switches available.

**Series PFMB.** Decorator-5 dual mount hardware for converting to close up. Extend 14" from ceiling to bottom of switch housing; 12" to blades.

**Series PFCH.** Hug-the-ceiling design for rooms with low ceilings. Extend 5 3/4" from ceiling to bottom of switch housing; 7 1/4" to blades.

No.	UPC	Finish	Max. Amps
<b>Series PFMB - 42"</b>			
PFMB-42AB	24210	Ant. Brass	.5
PFMB-42BR	24215	Pol. Brass	.5
PFMB-42WB	24218	Pol. Brass/White Blades	.5
PFMB-42WH	24220	All White	.5
<b>Series PFMB - 52"</b>			
PFMB-52AB	24270	Ant. Brass	.6
PFMB-52BR	24276	Pol. Brass	.6
PFMB-52WB	24284	Pol. Brass/White Blades	.6
PFMB-52WH	24285	All White	.6
<b>Series PFCH - 42"</b>			
PFCH-42AB	24072	Ant. Brass	.35
PFCH-42BR	24075	Pol. Brass	.35
PFCH-42WH	24079	All White	.35
<b>Series PFCH - 52"</b>			
PFCH-52AB	24081	Ant. Brass	.6
PFCH-52BR	24083	Pol. Brass	.6
PFCH-52WH	24088	All White	.6

### NUTONE Ceiling Fans Summit



Precision balanced whisper-quiet fan with 5 wood blades extends only 7-1/8" from ceiling to bottom of blades. Reversible switch directs air flow up or down. Pull-chain switch operated 3-speed motor. Maximum .8A.

No.	UPC	Finish
PFHB-52AB	24051	Ant. Brass
PFHB-52PB	24716	Pol. Brass
PFHB-52WH	24720	White

### NUTONE Paddle Fans



Century



Elegance



Verandah II

Computerized, 3-speed, or 5-speed fans with choice of finishes and blades. Specifications: High Speed - 9100 cfm (200 rpm 4-blade), 190 rpm 5-blade). Max. Watts 104. Max. Amps .89.

**Century.** 52" paddle fan. Extend 14 3/4" from ceiling to bottom of switch housing. 12" to blades.

**Elegance.** 52" paddle fan. Extend 14" from ceiling to bottom of switch housing. 12" to blades.

**Verandah II.** 52" paddle fan. Extend 14" from ceiling to bottom of switch housing. 12" to blades.

### Paddle Fans

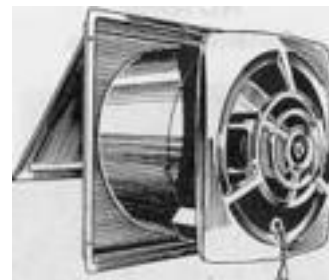
No.	UPC	Model	Finish
<b>Century</b>			
PFFR-52AB	.....	Computerized	Ant. Brass
PFFR-52BR	.....	Computerized	Pol. Brass
PFFN-52AB	.....	3-Speed	Ant. Brass
PFFN-52BR	.....	3-Speed	Pol. Brass
<b>Elegance</b>			
PFER-52BB	.....	Comp.	Black w/Brass Bands
PFER-52BC	.....	Comp.	Black w/Chrome Bands
PFER-52WB	.....	Comp.	White w/Brass Bands
PFER-52BR	.....	Comp.	Brass w/Brass Bands*
PFEB-52BB	.....	3-Spd.	Black w/Brass Bands
PFEB-52BC	.....	3-Spd.	Black w/Chrome Bands
PFEB-52WB	.....	3-Spd.	White w/Brass Bands
PFEB-52BR	.....	3-Spd.	Brass w/Brass Bands*
<b>Verandah II</b>			
PFDR-52AB	.....	Comp.	Ant. Brass
PFDR-52BR	.....	Comp.	Pol. Brass
PFDR-52WE	.....	Comp.	White w/Brass Trim
PFDR-52WH	.....	Comp.	All White Enamel
PFDN-52AB	.....	3-Spd.	Ant. Brass
PFDN-52BR	.....	3-Spd.	Pol. Brass
PFDN-52WE	.....	3-Spd.	White w/Brass Trim
PFDN-52WH	.....	3-Spd.	All White Enamel

\*Copper between bands.

### Blade Kits

No.	UPC	Desc.
<b>4-Blade Kits</b>		
PFB-4-52WL		Walnut Gloss Blades
PFB-4-52OAK		Oak Gloss Blades
PFB-4-52WH		White Gloss Blades
PFB-4-52BL		Black Gloss Blades
<b>5-Blade Kits</b>		
PFB-5-52WL		Walnut Gloss Blades
PFB-5-52OAK		Oak Gloss Blades
PFB-5-52WH		White Gloss Blades
PFB-5-52BL		Black Gloss Blades

### NUTONE Wall Fans Pull Chain Operated



**No. 8010.** 11" square grille and 13 3/4" square outside wall plate and fits into 9 1/8" diameter wall opening.

**No. 8110.** 13 1/2" square grille and 13 3/4" square outside wall plate and fits into 11 1/8" diameter wall opening.

No.	UPC	Blade Size In.	Wall Thick. In.	Air Del. cfm	Sound Level Sones
<b>Grille: Silver Anod. Finish</b>					
8010	.....	8	5-10%	250	4.0
<b>Grille: Silver Anod. Alum. Finish</b>					
8110	.....	10	5-10%	550	6.0

**NUTONE**

**Vertical Discharge Ceiling Fans**  
Wall Switch Operated



7" and 8" models have 11" diameter grille and fit into 9 1/8" diameter wall opening. Sleeve is 5 5/8" long. Adjustable from 0" to 3/4" for plaster variation. 10" model has 13 1/2" diameter grille and fits ceiling opening 11". Housing is 9 3/4" long. Filters are an optional extra. Silver anodized aluminum grill finish.

**Certified Test Data**

No.	UPC	Blade Size In.	Wall Thick. In.	Air Del. cfm	Sound Level Sones
8210		7	11	210	6.5
8220		8	11	170	4.0
8490		10	13 1/2	260	5.5

**NUTONE**

**Fans - Room-To-Room**



Designed to move air from one room to another. Pull-chain operated type with telescoping sleeve for fitting inside walls 2 3/4" to 5 3/8" thick. Fit 9 1/4" square wall opening. Two detachable baked white enamel grilles and housing.

No.	UPC	cfm	Sones
8141	.....	180	5.5

**NUTONE**

**Exhaust Bath Fans**



8814



8210 (Filter Extra)



8145



8070SA & 8170SA



8010SA/WH & 8110SA/WH



8310 & 8510

**Deluxe Exhaust Fans.** For baths with independent lighting. Easily installed. Many designs for every decor.

**No. 8814.** For large baths. Unbreakable polymeric grille with white pebble finish. 110 CFM ventilation for baths up to 105 sq. ft. or other rooms up to 135 sq. ft. Quiet operation achieved with polypropylene centrifugal blower wheel that is electronically balanced. Polypropylene duct adapter allows more open air, therefore quiet air flow. Prewired outlet box has plug-in receptacle. UL listed for use in shower or tub enclosures when used with GFI branch circuit. .85A.

**No. 8333.** Concealed Intake Ports. Brushed aluminum center panel. Can be papered or painted. Two-piece grille conceals intake ports. Beveled aluminum outer frame. For bathrooms up to 75 sq. ft., other rooms to 100 sq. ft. Centrifugal blower wheel channels air to outside through 3" round duct. Built-in non-metallic damper. Plug-in motor 'floats' on sound-absorbent cushions. .75A.

**No. 8870.** Through-the-Wall Fan. No ducting necessary. For baths up to 75 sq. ft. 7" round sleeves telescope to masonry or wood walls from 5" to 10" thick. All-aluminum exterior parts. Spring-operated aluminum backdraft damper opens and closes automatically to provide weatherseal when fan is not in operation. Plug-in motor. One-piece blade is electronically balanced.

**Straight-Through-The-Wall.** Install in wood or masonry walls. Telescoping sleeves fit most wall thicknesses. No ducting necessary. Anodized aluminum grilles.

**No. 8010SA.** 10" Pull-Chain Model. Outside door closes tightly for weather seal. For kitchens

up to 125 sq. ft. or other rooms up to 310 sq. ft. Silver anodized aluminum.

**No. 8010WH.** 10" Pull-Chain Model. Outside door closes tightly for weather seal. For kitchens up to 125 sq. ft. or other rooms up to 310 sq. ft. White enamel.

**No. 8070SA.** Automatic model with 8" pull-chain. For kitchens up to 80 sq. ft or other areas up to 200 sq. ft. Silver anodized aluminum.

**No. 8070WH.** Automatic Model with 8" pull chain. For kitchens up to 80 sq. ft or other areas up to 200 sq. ft. White enamel.

**No. 8110SA.** 10" Auto Shutter. Outside door closes tightly for weather seal. For kitchens up to 275 sq. ft. or other rooms up to 685 sq. ft. Silver anodized aluminum.

**No. 8110WH.** 10" Auto Shutter. Outside door closes tightly for weather seal. For kitchens up to 275 sq. ft. or other rooms up to 685 sq. ft. White enamel.

**No. 8170SA.** Automatic Model; 10" silver. 8" auto shutter. For kitchens up to 135 sq. ft. or other areas up to 335 sq. ft.

**No. 8170WH.** Automatic Model; 10" white enamel. 8" auto shutter. For kitchens up to 135 sq. ft. or other areas up to 335 sq. ft.

**Inside Wall or Ceiling.** Install in ceilings or 2"x4" walls. Silver anodized aluminum grilles resists corrosion and rust. Snap-in motors and impeller-type blades; housings have plug-in receptacles.

**No. 8310.** For kitchens up to 90 sq. ft. or other areas up to 225 sq. ft. Silver anodized aluminum. 3 1/4"x10" duct size.

**No. 8510.** For kitchens up to 150 sq. ft. or other areas up to 375 sq. ft. Silver anodized aluminum. 3 1/4"x10" duct size.

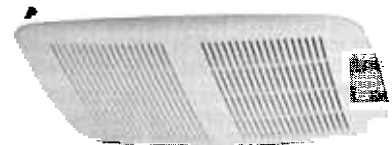
**No. 8145.** Room-To-Room. Move 220 cubic feet of air every minute at 4.0 sones. Solid-state speed control. Telescopes to fit inside walls 3 1/2" to 6" thick. Detachable adobe white textured twin grilles.

No.	UPC	Desc.
<b>Straight-Through-The-Wall</b>		
8010SA	.....	11" Sq. Grille
8010WH	.....	11" Sq. Grille
8070SA	.....	11" Sq. Grille
8070WH	.....	11" Sq. Grille
8110SA	.....	13 1/2" Sq. Grille
8110WH	.....	13 1/2" Sq. Grille
8170WH	.....	13 1/2" Sq. Grille
<b>Room to Room</b>		
8145	.....	11"x12 3/8" Grille
<b>Inside Wall or Ceiling</b>		
8310	.....	11" Dia. Grille
8510	.....	10" Dia. Grille
<b>Deluxe</b>		
8814	.....	10 1/4" x 11 1/2"
8833	.....	8 9/16" x 10 7/16"
8870	.....	7 1/8"

\*Fits 7 1/8" opening.

**NUTONE**

**Bathroom Blower Fans**



Less than 4" thick. Fits ceiling or 4" thick walls. Especially for bathrooms where closed doors require fans with high-static pull. 80 cfm, 3.5 sones. Intake grille has stud for one-piece fastening and

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wide range of adjustments for various ceiling thicknesses. Channels air to outside through 3" diameter duct. For 16" or 24" o.c. joists or studs.

No.	UPC	Desc.
9832SA	.....	Silver Anodized Alum. Grille
9832WH	.....	Ceiling/Wall Fan - White

## NUTONE

### Bathroom Fan/Light Combos



Lens has torsion spring mount for bulb replacement. Meets FHA requirements. Reflector and grille is anodized aluminum. Built-in back-draft dampers eliminate drafts. Can be wired for simultaneous or separate fan, light operation. Housing is 5 5/8" deep, 10 1/2" diameter, 1/2" plaster flange. 3 adjustable mounting brackets. Grill is 13 1/4" diameter.

UPC	cfm	Sones	Wt. Lbs.
.....	90	3.5	14

## NUTONE

### Exhaust Fans Round w/Light



8663P

Triple function 15" dia., 100 cfm ventilation fan-lights with wood, white polymeric or polished metal frames. Snap on grille assembly. For baths up to 95 sq. ft.; 125 sq. ft. in other rooms. 100W ceiling light or energy-saving fluorescent light; 7W night light. 1.7A rating; 3.5 sones sound level. Lamps not included. UL Listed for tub/shower with GFI.

No.	UPC	Grille Finish	Lamp Watts
8663LG*	21656	Bleached Wood	100/7
8663F†	21662	White Poly.	26
8663MSA	21670	Satin Al.	100/7
8663MAB	21665	Ant. Brass Anod. Al.	100/7
8663MBR	21666	Pol. Brass Anod. Al.	100/7
8663P	21671	White Poly.	100/7
8664P	21673	White Poly.	100
8673P‡	21680	White Poly.	100/7

\*15 1/8" dia.

†Fluorescent.

‡15 1/4" square.

## NUTONE

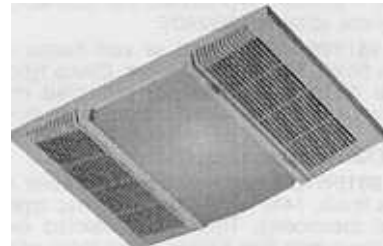
### Exhaust Fans QT Series



QT80, QT90 & QT110



QT130, QT150, QT200 & QT300



140L

QuietTest® fans provide quietest ventilation. White polymeric grille finish with silver anodized trim at each end.

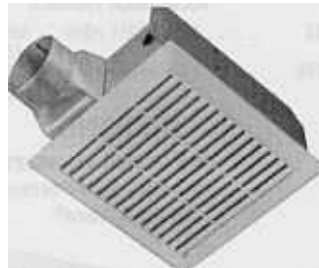
**No. QT-140L.** Combines 150 cfm at 2.0 sones with 100W ceiling light and 7W night light. Triple-function unit in one installation. Use with wall switch No. VS-87.

**No. QT-150.** Twin-blower fan for bathrooms up to 150 sq. ft.; other rooms up to 200 sq. ft. 160 cfm, 2.5 sones. Use with No. VS-64 solid-state switch.

No.	UPC	cfm	sones
QT-140L	.....	150	1.5
QT-80	.....	80	1.5
QT-90	.....	90	1.5
QT-110	.....	110	2.0
QT-130	.....	130	1.0
QT-150	.....	160	2.5
QT-200	.....	200	2.0
QT-300	.....	300	4.5

## NUTONE

### Exhaust Fans Bath Blower Fans



Install easily with slotted mounting brackets. Feature plug-in motors and extra large junction boxes. Torsion springs adjust white polymeric grilles to existing ceiling thickness. Grille 8 1/16" x 9 1/2". Automatic dampers. 3" duct.

**No. 696N.** For baths up to 45 sq. ft., other rooms to 60 sq. ft.

**No. C-350C2.** For baths up to 45 sq. ft., other rooms to 60 sq. ft.

**No. 693.** For baths up to 55 sq. ft., other rooms to 75 sq. ft.

**No. 695.** For baths up to 65 sq. ft., other rooms to 85 sq. ft.

## Fans

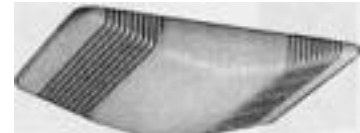
No.	UPC	cfm	sones
696N	.....	50	2.5
C-350C2	.....	50	2.5
693	.....	60	3.0
695	.....	70	3.5

## Accessories

No.	UPC	Desc.
690A	.....	Housing Trim
696NB	.....	Housing Trim

## NUTONE

### Exhaust Fans w/Light - ValueTest™



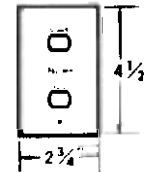
For baths up to 45 sq. ft., other rooms to 60 sq. ft. One-piece molded blower wheel, silent back-draft damper. White polymeric grille with break-resistant lens. Grille 10 1/4" x 10 1/2". Slotted mounting brackets. Plug-in motor and light. Steel housing 9" x 9" x 5 1/2". Duct 4". Use 100W lamp (not included).

**No. 763LN.** Air delivery 50 cfm. Sound level 2.5 sones.

No.	UPC	Desc.
763RL/769RLA	25620	Housing Trim
763LNB	25621	Trim w/Light
663LN	.....	Fan Motor
763LN	.....	Fan Motor

## NUTONE

### Heater & Fan Switches



**Two Switch.** 2 on-off switches. For vent and heat.

**Three Switch.** 3 on-off switches. For light, vent and heat.

No.	UPC	Knob/Switch Color
<b>Two Switch</b>		
HS-91SN	27715	Ivory
HS-92SN	27725	Ivory
<b>Three Switch</b>		
HS-93	.....	Ivory
HS-94N	98367	Ivory

*Call us for all your ventilation and heating needs!*

**NUTONE**  
Auxiliary Heaters



9315T



9356 & 9358



9810, 9815 & 9819



9376



9840

For heating of family room, offices and dens.

**No. 9315T.** Fan-forced register heater with almond finish. Styled like conventional forced-air register. Select 750W or 1500W for installation with plug-in elements. 120V.

**No. 9315XT.** Fan-forced register heater with almond finish. Styled like conventional forced-air register. Select 750W or 1500W for installation with plug-in elements. 240V. Housing 11x8 1/8 x 3 3/8.

**No. 9515.** Fan-forced kickspace heater with black finish. Fits under kitchen cabinets, bathroom vanities, etc. Select 750W or 1500W for installation with plug-in elements. 120V.

**No. 9515T.** Fan-forced kickspace heater with black finish. Fits under kitchen cabinets, bathroom vanities, etc. Select 750W or 1500W for installation with plug-in elements. 120V.

**No. 9515X.** Fan-forced kickspace heater with black finish. Fits under kitchen cabinets, bathroom vanities, etc. Select 750W or 1500W for installation with plug-in elements. 240V.

**No. 9356.** Infrared radiant heat. Aluminum finish. Snap-action automatic thermostat has positive "off". 120V.

**No. 9358.** Infrared radiant heat. Aluminum finish. Snap-action automatic thermostat has positive "off". 120V.

**No. 9376N.** Fan-forced wall heater. Aluminum finish. 10"x14" anodized angular grille for wide heat distribution. Thermal protected to prevent overheating. Connects to standard house wire. Has bi-metal snap-action thermostat with positive off, and range of 30°F to 100°F. Adjustable mounting brackets. 120V.

**No. 9810BWN.** Fan-forced air wall heater with brown polymeric finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra large oil reservoir. Thermal limit protected with automatic reset. Dual voltage: 120/240V.

**No. 9815BWN.** Fan-forced air wall heater with brown polymeric finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra

large oil reservoir. Thermal limit protected with automatic reset. Dual voltage: 120/240V.

**No. 9819BWN.** Fan-forced air wall heater with brown polymeric finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra large oil reservoir. Thermal limit protected with automatic reset. Dual voltage: 120/240V.

**No. 9810WH.** Fan-forced air wall heater with white finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra large oil reservoir. Thermal limit protected with automatic reset. Dual voltage: 120/240V.

**No. 9815WH.** Fan-forced air wall heater with white finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra large oil reservoir. Thermal limit protected with automatic reset. Dual voltage: 120/240V.

**No. 9819WH.** Fan-forced air wall heater with white finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra large oil reservoir. Thermal limit protected with automatic reset. Dual voltage: 120/240V.

**No. 9840.** Fan-forced air, high wattage wall heater with almond/black chrome finish. 14 3/4"x11 1/16" grilles. Creep type bi-metal thermostat. Thermally protected motor and transverse flow blower. Extra large oil reservoir. Thermal limit protected with automatic reset. 240V.

No.	UPC	Housing Dim. In.	Total Connected Load Watts	Element Watts
<b>Wall Heaters</b>				
9315T		11x8 1/8 x 3 3/8	800/1550	750/1500
9315XT		11x8 1/8 x 3 3/8	800/1550	750/1500
9356		10 1/16 x 16 x 3 1/2	1200	1200
9358		10 1/16 x 16 x 3 1/2	1550	1500
9376N		8 1/16 x 12 1/2 x 4	1265	1250
9810BWN		10 1/2 x 12 1/2 x 3 3/8	1050	1000
9810WH		10 1/2 x 12 1/2 x 3 3/8	1050	1000
9815BWN		10 1/2 x 12 1/2 x 3 3/8	1550	1500
9815WH		10 1/2 x 12 1/2 x 3 3/8	1550	1500
9819BWN		10 1/2 x 12 1/2 x 3 3/8	1970	1920
9819WH		10 1/2 x 12 1/2 x 3 3/8	1970	1920
9840		14x18 1/2 x 3 1/2	2050/4050	2000/4000
<b>Kickspace Heaters</b>				
9515		17 1/8 x 12 1/2 x 3 3/8	800/1550	750/1500
9515X		17 1/8 x 12 1/2 x 3 3/8	800/1550	750/1500

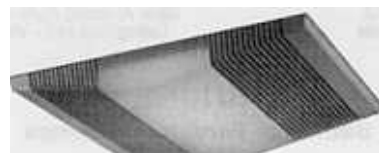
**NUTONE**  
Fan-Forced Heaters  
Economy - Fan-Forced  
Heat-A-Vent®



Heat distributed by fan with stale air and moisture removed by quiet 70 cfm blower exhaust fan. 1500W heating element and 4-blade fan. Plug-in heater and vent fan. For 120V AC connection. 20A. Thermally protected. Uses minimum 60°C housewire. White polymeric finish. Housing dimensions: 16"x8"x7 1/8". 1620W total connected load.

No.	UPC	btu	Sones
605N	.....	5118	4.5

**NUTONE**  
Heaters  
Economy Fan-Forced Heaters



1500W heating element and 4-blade fan. Plug-in receptacles for heater and light. For 120VAC connection. 20 amps. Thermally protected. Uses minimum 60°C housewire. White polymeric finish. Housing dimensions: 13 7/16"x8"x7 7/8". 1660W total connected load; 5118 btu.

No.	UPC	Desc.
660D	34428	Heat-A-Lite®

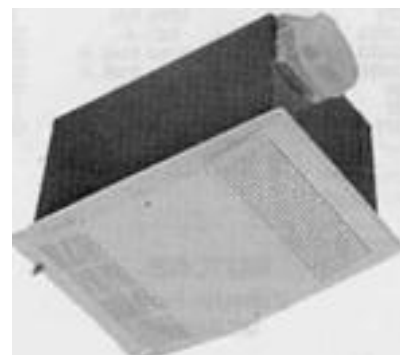
**NUTONE**  
Heaters  
Economy - Fan-Forced



1500W heating element and 4-blade fan. 70 cfm blower wheel exhausts stale air and moisture. When lamp installed (not included) aluminum reflector provides bright ceiling light. Lens easily snaps on and off. Mounting clips provide easy installation of unit. Hanger bars adjustable from 16"-24". Junction box built in; has 3 receptacles. Plug in heater motor, fan motor and light assembly. Heating element of nickel-chrome. For 120VAC connection. 20A. Thermally protected. Uses minimum 60°C housewire. White polymeric finish. Housing dimensions: 16"x8"x7 1/8". 1720W total connected load.

No.	UPC	Desc.	Btu
668N	.....	Fan-Light	5118
665N	.....	Heat-A-Ventlite®	5118
665S	.....	w/Switch	5118

**NUTONE**  
Ceiling Heaters  
Built-In - Fan-Forced  
Heat-A-Vent®



1500W heater. White polymeric grille dimensions: 16"x10 7/8"x1 3/8". Heating element of nickel-chrome. Automatic reset thermal protection. Adjustable hanger bars. Assembly in almond enamel steel housing. Connection to minimum 60°C housewire, 120VAC, 20 amps.

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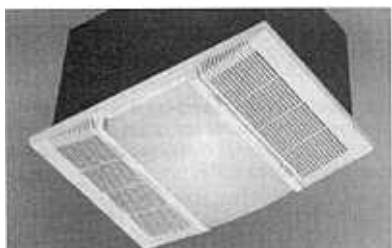
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Duct adapter of polypropylene has quiet back-draft damper; tapered for 4" duct installation. Comes with wall switch with separate controls for heat and fan. Housing dimensions 4"×9¾"×7¾". 1620W total connected load.

No.	UPC	btu
9905	32830	5118

## NUTONE Ceiling Heaters

Built-In - Fan-Forced Heat-A-Lite®



1500W heater combined with ceiling light and night light. One unit combines 3 functions each able to be operated singly or in any combination. 100W light assembly has glass lens and aluminum reflector. 7W night light assembly. White polymeric grille dimensions: 16"×10⅞"×1¼". Heating element of nickel-chrome. Automatic reset thermal protection. Adjustable hanger bars. Assembly in almond enamel steel housing. Connection to minimum 60°C housewire, 120V AC, 20A. Duct adapter of polypropylene has quiet backdraft damper; tapered for 4" duct installation. Wall switch with separate on-off controls for all functions. Housing dimensions 14"×9¾"×7¾".

UPC	Max. Watts	btu
	1667	5118

## NUTONE Bulb Heaters



250W radiant heat from one R-40 infrared heat lamp. Adjustable socket for ceilings up to 1" thick, adjustable hanger bars, automatic reset for thermal protection. Swivel mount, torsion springs hold plates firmly to ceiling. White polymeric. 853 BTU. Bulbs not included. UL Listed.

No.	UPC	Desc.	No. Bulbs	Size In.
9412D	32600	Heat-A-Lamp®	1	9⅞×9⅞×5¾
9417D		Heat-A-Vent®	1	12½×10×6⅞
9422		Heat-A-Lamp®	2	13½×7¾×5⅞

## NUTONE Bulb Heaters Heat-A-Vent®



250W radiant heat from one R-40 infrared heat lamp. Adjustable socket for ceilings up to 1" thick, adjustable hanger bars, automatic reset for thermal protection. Swivel mount, torsion springs hold plates firmly to ceiling. White polymeric. 853 BTU. Bulbs not included. UL Listed.

No.	UPC	No. Bulbs	Dim. In.
9427	.....	2	14¼×10⅞×6⅞

## WORLD DRYER

Hand Dryers  
Series Model A - Mounted



One-piece porcelain enamel finished cast iron cover with insulated pushbutton. Recessed instruction plate. Corrosion-resistant coated internal parts. Internally grounded mechanism. UL Listed.

### Model A Series

No.	UPC	Desc.	Watts	Time Cycle Sec.
<b>Surface Mount - Revolving Nozzle</b>				
A	.....	115V, 20A, 60 Hz	2300	30
A1	.....	115V, 20A, 60 Hz	2300	40
A2	.....	115V, 15A, 60 Hz	1725	40
A3	.....	208V, 11A, 60 Hz	2300	30
A4	.....	230V, 10A, 60 Hz	2300	30
A7	.....	277V, 8.5A, 60 Hz	2400	30
<b>Surface Mount—Fixed Nozzle</b>				
A5	.....	115V, 20A, 60 Hz	2300	30
A51	.....	115V, 20A, 60 Hz	2300	40
A52	.....	115V, 15A, 60 Hz	1725	40
A53	.....	208V, 11A, 60 Hz	2300	30
A54	.....	230V, 10A, 60 Hz	2300	30
A57	.....	277V, 8.5A, 60 Hz	2400	30

Note: All above are available in recessed model. Add R in front of model number. Example: Model A becomes RA.

## MARKEL Portable Electric Heaters Series 190 - Fan-Glo - 3 Heat



Separate on-off switch. Built-in thermostat. Permit choice of radiant heat, fan-forced heat or both

radiant and fan-forced heat at low, medium and high settings. Beige hammertone finish. 1500/900/600W. 15"H×9½"W×11½"D.

No.	UPC	Wt. Lbs.
198TM		9
198TM-ASA		9

## MARKEL Electric Baseboard Heaters Series 2500-N



No.	UPC	Volts	Watts	Lgth. In.	Wt. Lbs.
E2502N		120	500	28	8
F2502N		208	500	28	8
H2502N		240/208	500/375	28	8
G2502N		277/240	500/375	28	8
G2512N		277	375	28	8
E2503N		120	750	40	10
F2503N		208	750	40	10
H2503N		240/208	750/550	40	10
G2503N		277/240	750/550	40	10
G2513N		277	550	40	10
E2504N		120	1000	48	12
F2504N		208	1000	48	12
H2504N		240/208	1000/750	48	12
G2504N		277/240	1000/750	48	12
G2514N		277	750	48	12
E2505N		120	1250	60	14
F2505N		208	1250	60	14
H2505N		240/208	1250/950	60	14
G2505N		277/240	1250/950	60	14
G2515N		277	950	60	14
E2506N		120	1500	72	17
F2506N		208	1500	72	17
H2506N		240/208	1500/1150	72	17
G2506N		277/240	1500/1150	72	17
G2516N		277	1150	72	17
F2508N		208	2000	96	23
H2508N		240/208	2000/1500	96	23
G2508N		277/240	2000/1500	96	23
G2518N		277	1500	96	23
F2500N		208	2500	120	27
H2500N		240/208	2500/1900	120	27
G2500N		277/240	2500/1900	120	27
G2510N		277	1900	120	27

## MARKEL

Thermostat Kits  
For Series 2220 & 2500

Integral mount baseboard controls. Suffix "TT" indicates with tamper-proofing.

No.	UPC	Poles/Circuits	Temp. Range °F
<b>Hydraulic Line Voltage</b>			
T2201	.....	SPST	40-85
T2201-TT	.....	SPST	40-85
T2202	.....	DPST	40-85
T2202-TT	.....	DPST	40-85
<b>Bi-Metal Line Voltage</b>			
TB2203	.....	SPST	40-85
TB2203-TT	.....	SPST	40-85
TB2204	.....	DPST	40-85
TB2204-TT	.....	DPST	40-85

**MARKEL**  
**Forced-Air Heaters**  
 Series 3310



Heaters constructed of heavy gauge steel housing. Rough-in dimensions 19<sup>3/16</sup>"Hx14<sup>3/16</sup>"Wx4"D. Feature parchment white, baked-on enamel finish and is available in ratings from 1500W through 4800W. Heaters have a low speed 600 rpm motor which drives a vane axial bower for quiet 175 cfm, down flow delivery of air. Sealed tubular type heating element has large, parallel steel fins for quick heat transfer. Standard thermal overload cutoff for added safety, a fan switch for fan only operation and a built-in thermostat which can be calibrated to provide a range of 55°F to 85°F.

UL Listed.

No.	UPC	Heaters		Watts	Volts
		Standard			
E3311TS-RP				750	120
E3312TS-RP				1000	120
E3313TS-RP				1500	120
H3313TS-RP				1500	240
F3313TS-RP				1500	208
G3313TS-RP				1500	277
HF3313RA-RP				1500/1125	240/208
HF3314T-RP				2000/1500	240/205
HF3314TS-RP				2000/1500	240/208
H3314TS-RP				2000	240
F3314TS-RP				1500	208
G3314TS-RP				2000	277
HF3315T-RP				3000/2250	240/208
HF3315TS-TP				3000/2250	240/208
H3315TS-RP				3000	240
F3315TS-RP				3000	208
G3315TS-RP				3000	277
HF3316T-RP				4000/3000	240/208
HF3316TS-RP				4000/3000	240/208
F3316TS-RP				4000	208
H3316TS-RP				4000	240
G3316TS-RP				4000	277
H3317T-RP				4800	240
H3317TS-RP				4800	240
F3317TS-RP				4800	208
G3317TS-RP				4800	277
w/Disconnect Switch					
E3311TS-RP-D				750	120
E3312TS-RP-D				1000	120
E3313TS-RP-D				1500	120
H3313TS-RP-D				1500	240
F3313TS-RP-D				1500	208
G3313TS-RP-D				1500	277
HF3313RA-RP-D				1500/1125	240/208
HF3314T-RP-D				2000/1500	240/205
HF3314TS-RP-D				2000/1500	240/208
H3314TS-RP-D				2000	240
F3314TS-RP-D				1500	208
G3314TS-RP-D				2000	277
HF3315T-RP-D				3000/2250	240/208
HF3315TS-TP-D				3000/2250	240/208
H3315TS-RP-D				3000	240
F3315TS-RP-D				3000	208
G3315TS-RP-D				3000	277
HF3316T-RP-D				4000/3000	240/208
HF3316TS-RP-D				4000/3000	240/208
F3316TS-RP-D				4000	208
H3316TS-RP-D				4000	240
G3316TS-RP-D				4000	277
H3317T-RP-D				4800	240
H3317TS-RP-D				4800	240
F3317TS-RP-D				4800	208

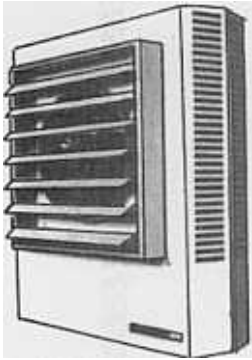
**Field Installed Accessories**

No.	Desc.
3310EX33	Surface Mounting Adapter
BOX3310	Rough-In Box Only

## MARKEL

### Electric Unit Heaters

Taskmaster 5100 Series - Industrial



#### Combination Horizontal/Vertical Mounting

No.	UPC	Heater Volts	Ph.	Std. Control Volts
<b>3.3 kW - 11.2 Btu/Hr. (000)</b>				
1F5103N*	.....	208	1	208
2F5103N*	.....	208	1-3	208
1G5103N*	.....	277	1	277
3P5103CA1N	.....	480	3	24
<b>3.3/2.5 kW - 11.2/8.5 Btu/Hr. (000)</b>				
1F1B5103N*	.....	240/208	1	241/208
1F2B5103N*	.....	240/208	1-3	240/208
<b>5.0 kW - 17.1 Btu/Hr. (000)</b>				
1F5105N*	.....	205	1	208
2F5105N*	.....	208	1-3	208
1G5105N*	.....	277	1	277
3P5105CA1N	.....	480	3	24
<b>5.0 kW - 17.1/12.8 Btu/Hr. (000)</b>				
1F1B105N*	.....	240/208	1	240/208
1F2B105N*	.....	240/208	1-3	240/208
<b>7.5 kW - 25.6 Btu/Hr. (000)</b>				
2F5107CA1L	.....	208	1-3	24
1G5107CA1L	.....	277	1	24
3P5107CA1N	.....	480	3	24
<b>7.5/5.6 kW - 25.6/19.2 Btu/Hr. (000)</b>				
1F2B5107CA1L	.....	240/208	1-3	24
<b>9.9 kW - 33.8 Btu/Hr. (000)</b>				
2F5110CA1L	.....	208	1-3	24

No.	UPC	Heater Volts	Ph.	Std. Control Volts
<b>10.0 kW - 34.1 Btu/Hr. (000)</b>				
G1G5110CA1L	.....	277	1	24
P3P5110CA1N	.....	480	3	24
<b>10.0/7.5 kW - 34.1/25.6 Btu/Hr. (000)</b>				
HF2B5110CA1L	.....	240/208	1-3	24
<b>15.0 kW - 51.2 Btu/Hr. (000)</b>				
F3F5115CA1L	.....	208	3	24
P3P5115CA1N	.....	480	3	24
<b>15.0/11.2 kW - 51.2/38.4 Btu/Hr. (000)</b>				
HF3B5115CA1L	.....	240/208	3	24
<b>19.7/14.8 kW - 67.2/50.5 Btu/Hr. (000)</b>				
HF3B5120CA1L	.....	240/208	3	24
<b>20.0 kW - 68.3 Btu/Hr. (000)</b>				
P3P5120CA1N	.....	480	3	24
<b>25.0 kW - 85.3 Btu/Hr. (000)</b>				
F3F5125CA1L	.....	208	3	24
P3P5125CA1N	.....	480	3	24
<b>25.0/18.7 kW - 85.3/64.0 Btu/Hr. (000)</b>				
HF3B5125CA1L	.....	240/208	3	24

\*Wired for direct line voltage and have no contactors. If line voltage contactors are required add suffix C3. If volt low voltage is required add suffix CA1.

**Note:** Heaters with kW ratings of 30.0, 39.0, 40.0, 49.6 and 50.0 also available.

#### Mounting Brackets

No.	UPC	Used On
<b>Wall/Ceil. - Horizontal</b>		
A5105	.....	3.3-5.0 kW
A5120	.....	7.5-20.0 kW
A5150	.....	25.0-50.0 kW
<b>Wall/Ceil. - Vertical</b>		
V5105	.....	3.3-5.0 kW
V5120	.....	7.5-20.0 kW
V5150	.....	25.0-50.0 kW

#### Accessories

No.	Poles	Amps	V AC
<b>Field Installed Power Disconnect Switch</b>			
<b>Built-In</b>			
DCS252	2	25	120-277
DCS253	3	25	120-600
DCS328	3	32	120-600
DCS632	3	63	120-600

No.	Poles	Amps	V AC
DCS633	3	63	120-600

#### Line Voltage Thermostats - 45°-90°F - Built-In

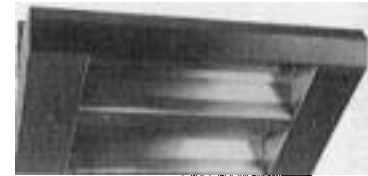
T5100	SPST Line Duty	25	120-277
T5102	DPST Line Duty	25	120-277

#### Line Voltage Thermostats

TW1510	SPST	30	120-240
TW1512	DPST	30	120-240

## MARKEL

### Infrared Heaters Series 6700



For indoor and totally exposed outdoor areas. Total area heat, snow/ice control and spot heat. Double aluminum reflector. Provide total or supplementary heat for variety of applications. Ideal for melting snow at building entrances. Corrosion resistant. Two elements per fixture. Four high temperature lead wires. Can be wired for single or three phase systems. Dark brown enamel finish. Mount horizontal. Knockouts for 1/2" conduit on both ends and on top of wiring channel. Hinge feature for one-person installation.

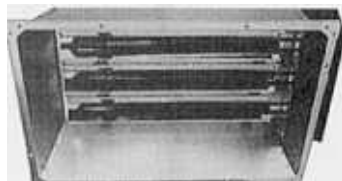
No.	UPC	Heat Pattern	Max. Watts	Lgth. In.
6724-9S	.....	90° SYM	3200	24
6724-6S	.....	60° SYM	3200	24
6724-6A	.....	60° ASY	3200	24
6724-3S	.....	30° SYM	3200	24
6724-3A	.....	30° ASY	3200	24
6724-4A	.....	30° ASY	3200	24
6733-9S	.....	90° SYM	5000	33
6733-6S	.....	60° SYM	5000	33
6733-6A	.....	60° ASY	5000	33
6733-3S	.....	30° SYM	5000	33
6733-3A	.....	30° ASY	5000	33
6733-4A	.....	30° ASY	5000	33
6746-9S	.....	90° SYM	..*	46
6746-6S	.....	60° SYM	..*	46
6746-6A	.....	60° ASY	..*	46
6746-3S	.....	30° SYM	..*	46
6746-3A	.....	30° ASY	..*	46
6746-4A	.....	30° ASY	..*	46

\*7300 UL Approved, 6000 Max CSA Approved.

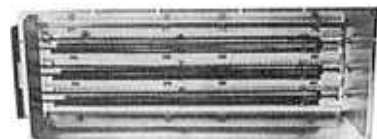
**Note:** 4A in model number designates 30 asymmetric heat pattern from 15°-45°.

## MARKEL

### Radiant Heaters Series 3500 Heavy Duty



Type 2



Type 3



Type 1

Provide instantaneous infrared heat. Heat people and objects, not air. Suited for a variety of industrial, commercial, and institutional applications. Heavy duty gold anodized aluminum reflectors. General purpose 60° symmetrical heat patterns. U-shaped metal sheath elements. Reflector housing corrosion resistant. Factory wired for 3Ø operation with high temperature silicone wire for easy field connection. Ceiling mounted. CSA Approved.

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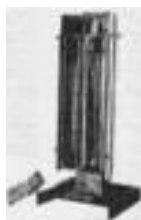
Designs and Specifications are for reference only and are subject to change without notice.

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No.	UPC	Watts	Volts	Dim., In.		Type
				L	D	
1E3502A	.....	1300	120	24	7 1/4	1
1F3502A	.....	2000	208	24	7 1/4	1
1H3502A	44122	2000	240	24	7 1/4	1
1G3502A	.....	2000	277	24	7 1/4	1
1P3502A	.....	2000	480	24	7 1/4	1
1U3502A	.....	2000	600	24	7 1/4	1
1F3504A	.....	4500	208	46 1/4	7 1/4	1
1H3504A	44126	4500	240	46 1/4	7 1/4	1
1G3504A	.....	4500	277	46 1/4	7 1/4	1
1P3504A	.....	4500	480	46 1/4	7 1/4	1
1U3504A	.....	4500	600	46 1/4	7 1/4	1
3F3506A	.....	6000	208	27	7 1/2	2
3H3506A	.....	6000	240	27	7 1/2	2
1G3506A	.....	6000	277	27	7 1/2	2
3P3506A	.....	6000	480	27	7 1/2	2
3U3506A	.....	6000	600	27	7 1/2	2
3F3513A	.....	13500	208	49 1/2	7 1/2	3
3H3513A	.....	13500	240	49 1/2	7 1/2	3
1G3513A	.....	13500	277	49 1/2	7 1/2	3
3P3513A	.....	13500	480	49 1/2	7 1/2	3
3U3513A	.....	13500	600	49 1/2	7 1/2	3
3F3527A	.....	27000	208	96 1/4	7 1/2	6*
3H3527A	.....	27000	240	96 1/4	7 1/2	6*
3G3527A	.....	27000	277	96 1/4	7 1/2	6*
3P3527A	.....	27000	480	96 1/4	7 1/2	6*
3U3527A	.....	27000	600	96 1/4	7 1/2	6*

\*This unit requires field wiring to each end of fixture to accommodate two 13.5 KW 3-element sections.

**MARKEL**  
Portable Heat Caddies  
Series 3600



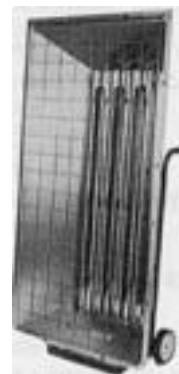
Type 1 - Stand



Type 2 - Stand



Type 3 - Hand Cart



Type 4 - Hand Cart

Double wall housings on sides. Protective wire screens. 6 kW and 13.5 kW caddy heaters can be turned to 90° to change radiant pattern from vertical to horizontal. All models include fixture and factory installed elements.

No.	UPC	Volts	Ht. In.	Wdth. In.	Dpth. In.	Type
1F3602A	.....	208	27	12	12	1
1H3602A	.....	240	27	12	12	1
1G3602A	.....	277	27	12	12	1
1P3602A	.....	480	27	12	12	1
1U3602A	.....	600	27	12	12	1
1F3609A	.....	208	48	12	12	2
1H3609A	.....	240	48	12	12	2
1G3609A	.....	277	48	12	12	2
1P3609A	.....	480	48	12	12	2
1U3609A	.....	600	48	12	12	2
1H3606†	.....	240	43 1/2	20	16	3
3F3606‡	.....	208	43 1/2	20	16	3
3H3606‡	.....	240	43 1/2	20	16	3
1G3606A	.....	277	43 1/2	20	16	3
3P3606‡	.....	480	43 1/2	20	16	3
3U3606‡	.....	600	43 1/2	20	16	3
3F3613A‡	.....	208	58	27 1/2	19	4
3H3613A‡	.....	240	58	27 1/2	19	4
1G3613A	.....	277	58	27 1/2	19	4
3P3613A‡	.....	480	58	27 1/2	19	4
3U3613A‡	.....	600	58	27 1/2	19	4

\*Includes 15' cordset with grounded plug.

†Includes 15' 3 wire cable and plug.

‡3-Phase.

Products shown here are for reference only. They can be sold by the locally authorized distributor.

## MARKEL

### Line Voltage Thermostats



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

All DPST thermostats have marked positive Off position.

No.	UPC	Poles/ Circuits	Fig.	Range °F
<b>22A 120-240V-18A 277V</b>				
.....	.....	SPST	1	40-90
.....	.....	DPST	1	40-90
.....	.....	SPST	1	40-75
.....	.....	DPST	1	40-75
.....	.....	SPST	2	40-90
.....	.....	DPST	2	40-90
.....	.....	SPST	2	40-90
.....	.....	DPST	2	40-90
.....	.....	SPST	4	40-90
.....	.....	DPST	4	40-90
<b>22A 120-277V</b>				
.....	.....	SPST	5	35-90
.....	.....	DPST	5	35-90
.....	.....	SPST	6	40-85
.....	.....	DPST	6	40-85
<b>25A 120-240V-18A 277V</b>				
.....	.....	SPST	1	40-90
.....	.....	DPST	1	40-90
.....	.....	2S	1	40-90
.....	.....	2S	3	40-90
<b>25A 120-277V</b>				
TW1510*	.....	SPST	7	40-90
TW1512*	.....	DPST	7	40-90

\*Tamper resistant.  
 †Deluxe thermostat with anticipator.  
 ‡With anticipator.  
 §2 circuits operated simultaneous with 1 element.  
 \*Heavy duty industrial.

## MARKEL Electric Heaters High Wattage



Automatic thermostat, two-heat selection, protective overheat device, manual reset and powerful fan for increased air circulation. 20A, three-wire cordset. Made from MarClad steel (heavy galvanized).

No.	UPC	Watts	Btu	Wt. Lbs.
H474T	.....	2000/4000	13648	20

## CHROMALOX® PARTS Immersion Heaters Type ARTM-Screw Plug



Completely automatic, lower wattage immersion heater with copper tubular element brazed into brass screw plug. Sealed brass well houses thermostat sensing bulb. Thermostat with adjustable set screw and scale inside end cap has 60° to 180°F range. Heater used for any water tank requiring automatic temperature control. 240V.

No.	UPC	OA Lgth. In.	Inside Lgth. In.	Watts
ARTMW-7	.....	10 7/8	6 3/8	750
ARTMW-10	.....	10 7/8	6 3/8	1000
ARTMW-12	.....	12 1/16	8 1/8	1250
ARTMW-15	.....	13 3/8	9 1/4	1500
ARTMW-20	.....	16 1/4	12 1/4	2000
ARTMW-25	.....	21	16 1/2	2500
ARTMW-30	.....	24 3/8	19 3/8	3000

## CHROMALOX® Strip Heaters

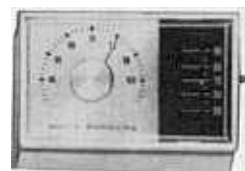


Put heat where it is needed using one or two strips for small amounts of heat or several for more heat. Clamp to tank, platens, dies; build your own oven, melting pot, hot plate; or use as a resistor for load banks. UL Recognized. CSA Certified.

No.	UPC	Lgth. In.	Watts	Volts
<b>Chrome Steel Sheath</b>				
OT-802	.....	8	250	120 or 240
OT-1004	.....	10 1/2	400	120 or 240
OT-1202	.....	12	250	120 or 240
OT-1205	.....	12	500	120 or 240
OT-1505	.....	15 1/4	500	120 or 240
OT-1807	.....	17 3/8	750	120 or 240
OT-1801	.....	17 7/8	1000	120 or 240
OT-1907	.....	19 1/2	750	120 or 240
OT-2107	.....	21	750	120 or 240
OT-2405	.....	23 3/4	500	120 or 240
OT-2407	.....	23 3/4	750	120 or 240
OT-2401	.....	23 3/4	1000	120 or 240

No.	UPC	Lgth. In.	Watts	Volts
<b>SE Type</b>				
SE-3001	.....	30 1/2	1000	120 or 240
SE-4301	.....	42 1/2	1500	120 or 240
SE-96	.....	96	2750 or 4500	240
SE-94	.....	53 3/8	1500 or 2500	240
SE-64	.....	63 3/8	1800 or 3000	240
SE-72	.....	71 7/8	2000 or 3300	240
SE-82	.....	81 7/8	2250 or 3750	240

## ELECTROMODE Thermostats Low Voltage



Single pole. Off-white.

No.	UPC	Volts	Temp. Rge. Deg.	Mount
IE30-511	01338	30	45-90	Vert.
IF30-501	01339	30	45-90	Horiz.

## RAYCHEM Electric Heaters Chemelex® - Auto-Trace®



Provide electrical steam-cleanable freeze protection and process-temperature maintenance where high power output is necessary. Withstand temperatures up to 420°F. Provide process temperature maintenance to 250°F. Consist of 14 AWG copper bus wire, self-regulating semi-conductive fiber heating element, fluoropolymer jacket. For use in nonclassified areas.

**Suffix -CT.** Tinned copper braid and fluoropolymer outer jacket. For use in hazardous (classified) areas where exposure to chemicals, hydrocarbons, solvents is expected. Use on stainless steel or painted surfaces to provide required ground path; where additional mechanical protection is necessary.

No.	Start. Temp. °F	Circuit Breaker Size Vs. Max. Circuit Lgth., Ft.				
		15A	20A	30A	40A	50A
<b>120V AC</b>						
5XTV1	50	180	240	360	380	380
	0	180	215	325	380	380
	-20	155	210	315	380	380
	-40	150	200	305	380	380
10XTV1	50	110	145	220	270	270
	0	95	1	195	265	270
	-20	95	1	190	255	270
	-40	90	1	180	245	270

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No.	Start. Temp. °F	Circuit Breaker Size Vs. Max. Circuit Lgth., Ft.				
		15A	20A	30A	40A	50A
15XTV1	50	75	100	150	200	220
	0	65	90	135	180	220
	-20	65	85	130	170	215
20XTV1	-40	60	80	125	165	205
	50	60	80	120	160	190
	0	50	70	105	140	175
5XTV1-CT	-20	50	65	100	135	170
	-40	45	65	95	130	165
	50	180	240	360	380	380
10XTV1-CT	0	160	215	325	380	380
	-20	155	210	315	380	380
	-40	150	200	305	380	380
15XTV1-CT	50	110	145	220	270	270
	0	95	130	195	265	270
	-20	95	125	190	255	270
20XTV1-CT	-40	90	120	180	245	270
	50	75	100	150	200	220
	0	65	90	135	180	220
5XTV2	-20	65	85	130	170	215
	-40	60	80	125	165	205
	50	60	80	120	160	190
10XTV2	0	50	70	105	140	175
	-20	50	65	100	135	170
	-40	45	65	95	130	165

240V AC

5XTV2	50	360	480	720	765	765
	0	320	425	640	765	765
	-20	305	410	615	765	765
10XTV2	-40	295	390	590	765	765
	50	220	295	440	540	540
	0	195	260	390	520	540
15XTV2	-20	185	245	370	495	540
	-40	175	235	355	475	540
	50	150	200	300	400	440
20XTV2	0	130	175	265	355	440
	-20	125	170	255	340	425
	-40	120	160	240	325	405
5XTV2-CT	50	115	150	230	305	380
	0	100	135	200	270	335
	-20	95	125	190	255	320
10XTV2-CT	-40	90	120	185	245	310
	50	360	480	720	765	765
	0	320	425	640	765	765
15XTV2-CT	-20	305	410	615	765	765
	-40	295	390	590	765	765
	50	220	295	440	540	540
20XTV2-CT	0	195	260	390	520	540
	-20	185	245	370	495	540
	-40	175	235	355	475	540
5XTV2-CT	50	150	200	300	400	440
	0	130	175	265	355	440
	-20	125	170	255	340	425
10XTV2-CT	-40	120	160	240	325	405
	50	115	150	230	305	380
	0	100	135	200	270	335
15XTV2-CT	-20	95	125	190	255	320
	-40	90	120	185	245	310

**RAYCHEM**  
Heating Cables  
WinterGard™



For residential, commercial, industrial use for pipe-freeze protection or roof and gutter de-icing.

Heating Cables

No.	UPC	W/ Ft.	Volts	Lgth. Ft.
WinterGard™				
H310100	.....	3	120	100
H310250	.....	3	120	250
WinterGard™ Plus®				
H611050	.....	6	120	50
H611100	.....	6	120	100
H611250	.....	6	120	250
H621050	.....	6	240	50

No.	UPC	W/ Ft.	Volts	Lgth. Ft.
H621100	.....	6	240	100
H621250	.....	6	240	250
WinterGard™ Wet®				
H612100	.....	6	120	100
H612250	.....	6	120	250
H622100	.....	6	240	100
H622250	.....	6	240	250

Accessories

No.	UPC	Desc.
H900	.....	Power Conn. Kit
H901*	.....	Plug-In Cord Set w/Fused Plug 2 Wire
H902	.....	Splice & Tee Kit
H903	.....	Fiberglass Appl. Tape, "Electric Rated" Labels
H904†	.....	Down-Spout Hanger
H905†	.....	Roof Clips
H906	.....	Heat Shrinkable Tubing Kit

\*For No. H310 only.

†For Nos. H612, H622 only.

**EASY HEAT**  
Heat Mats



Heater wire bonded to fiberglass mesh, spaced for units of 10W/sq. ft. or 20W/sq. ft. Two 10' cold leads. All units 16" wide. 120V, 208V and 240V. UL Listed.

No.	UPC	Lgth. Ft.	Total Watts
120 Volt — 10 Watts/Sq. Ft.			
FM120L	.....	15	200
FM130L	.....	23	300
FM140L	.....	30	400
FM150L	.....	38	500
FM160L	.....	45	600
FM180L	.....	60	800
FM190L	.....	68	900
FM1100L	.....	75	1000
240 Volt — 20 Watts/Sq. Ft.			
FM240	.....	15	400
FM260	.....	23	600
FM280	.....	30	800
FM2100	.....	38	1000
FM2120	.....	45	1200
FM2160	.....	60	1600
FM2180	.....	68	1800
FM2200	.....	75	2000

**EASY HEAT**  
Roof Cable Kits



Resistance heating units melt ice from roof, gutters, downspouts. Kit includes necessary links, clips and illustrated instructions. Do-it-yourself application features. Available in 120V.

No.	UPC	Lgth. Ft.	Watts	Sgl. Clips	Cable Links
CK20	.....	20	140	15	5
CK30	02999	30	210	23	8
CK40	.....	40	280	30	10
CK60	.....	60	420	45	15
CK80	.....	80	560	60	20
CK100	.....	100	700	75	25
CK120	.....	120	840	90	30
CK140	.....	140	980	105	35

**EASY HEAT**  
Roof De-Icing Kits



Contains de-icer heat cable with 6' cold lead cord, hardware to attach it to the roof and complete instruction for easy installation. For use on 120V AC.

No.	UPC	Lgth. Ft.	Watts	Pkg. Qty.	Wt. Lbs.
CRK-020	.....	20	160	10	8½
CRK-030	.....	30	240	10	11¼
CRK-040	.....	40	320	10	12½
CRK-060	.....	60	480	6	11¼
CRK-080	.....	80	640	6	13¼
CRK-100	.....	100	800	6	21¼
CRK-120	.....	120	960	5	21
CRK-140	.....	140	1120	5	24
CRK2-040	.....	40	320	10	17
CRK2-060	.....	60	480	10	17½
CRK2-080	.....	80	640	5	15
CRK2-120	.....	120	960	5	16
CRK2-160	.....	160	1280	1	4
CRK2-200	.....	200	1600		6

**EASY HEAT**  
Heat Bands

Series ET - Automatic



Include snap-action thermostat, 24" cold leads with molded plug and TEST-TAB which permits checking heat band at room temperature. 105°C. PVC insulation. Operate at 7W per lineal foot.

No.	UPC	Lgth. Ft.	Protects Pipe Ft.	Watts
ET-3	.....	3	Up to 3	21
ET-6	.....	6	3-6	42
ET-9	.....	9	6-9	63
ET-12	.....	12	9-12	84
ET-15	.....	15	12-15	105
ET-18	.....	18	15-18	126
ET-24	.....	24	18-24	168

Note: Also available in 30', 40' and 60' lengths.