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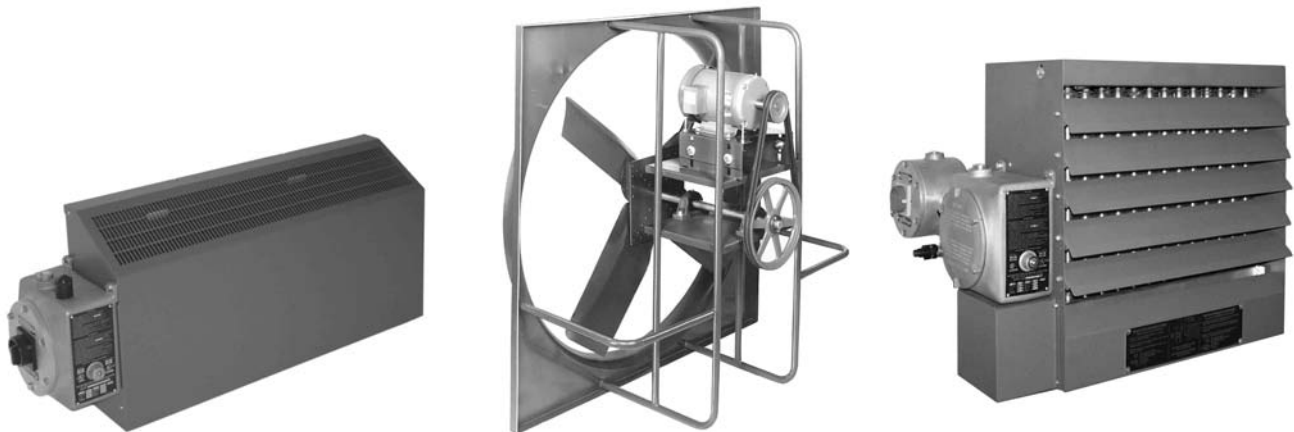
## Hazardous Location and Washdown Heating Products

<b>Series</b>	<b>Description</b>	<b>Page</b>
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## Hazardous Location Ventilation Products

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MCD	Explosion proof permanent mount swivel fans	9
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**FAN-FORCED SUSPENDED UNIT HEATERS 3-25 KW FOR CLASS I, GROUP C & D, DIVISION 1 & 2 AND CLASS II, GROUPS E, F & G, DIVISIONS 1 & 2.**

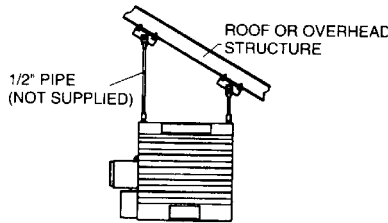


Shown with optional pilot light and disconnect switch



Designed for rugged industrial applications in hazardous locations where the possibility of explosion or fire exists due to the presence of certain flammable gases, vapors, powdered metals or dust.

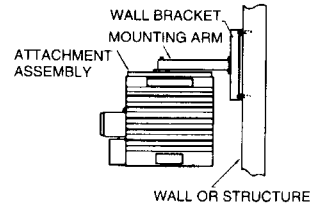
- Permanently sealed, liquid to air, finned tube heat exchanger core
- Ethylene Glycol to water mixture uses a heat transfer fluid in the heater core, providing freeze damage protection
- High performance electric motor driven fan blows air across finned tubes to effect uniform heat transfer and area heat distribution.
- Manual Reset capillary type high limit provides high temp. Regulation and is rated for 6,000 cycles of service
- 14 Ga. Steel cabinet epoxy coat finish contains heater core, motor, and fan assembly



**HLHM**

**Hanging Mounting Kit**

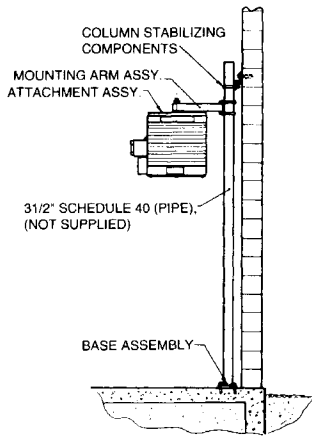
Simple and economical if adequate overhead structure exists. Requires 1/2" pipe, cut and threaded (not supplied).



**HLWM**

**Wall Mounting Kit**

Ideal for use in buildings that have substantial walls. Arm only can also be bolted directly to structural steel.



**HPLM**

**Pipe Mounting Kit**

Particularly useful in buildings with insufficient strength to use other types of mounts. Requires 3 1/2" pipe (4" O.D. - not supplied)

UPC 686334	NUMBER	USE WITH HEATERS	WT.
734288	HPLM37	3.0 - 7.5 KW	37
734295	HPLM10	10.0 KW	38
734301	HPLM1525	15.0 - 25.0 KW	40
734318	HLHM	ALL	5
734325	HLWM37	3.0 - 7.5 KW	27
734332	HLWM10	10.0 KW	28
734349	HLWM1525	15.0 - 25.0 KW	29



Optional built-in thermostat



Liquid-to-air exchanger



Hazardous location rated motor

UPC 686334	MODEL NUMBER	DESCRIPTION	WT
538107	EPETD8S	50-90 F 24-277 VOLT SPST	5
538077	EPETD8D	50-90 F 24-277 VOLT DPST	5

**THERMOSTAT MODELS:**

- EPETD8S - single pole
- EPETD8D - double pole



**Hazardous Location Thermostat**

Dimensions: 5 5/8" X 6 3/8" X 4 1/2"

Finish: Gray

Range: 50° - 90°

Motor Rating: (full load) 1 1/2 HP @ 250V

Heater Loading

Rating: 22A @ 125-277VAC; 125VA @ 24VAC

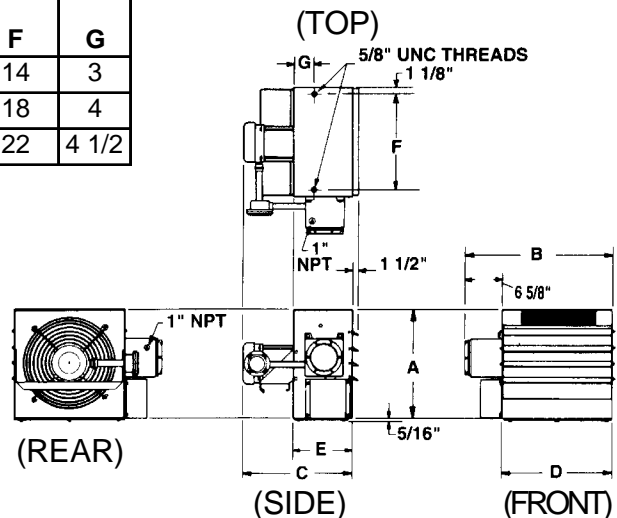
Rated: Class I Group C & D, Class II Group E,F,G (Thermostat not rated for use in Group B environments)

UPC 686334	MODEL NUMBER	KW	BTU'S	VOLTS	PH	LINE AMPS	CONTROL VOLTAGE	TEMP RISE	AIR THROW	CFM	MOUNT HEIGHT	WT.					
734356	HLA 12-208160-3.0-24	3	10250	208	1	16.3	24	16.5			8'	167					
734004	HLA 12-208360-3.0-24			208	3	9.8											
734011	HLA 12-240160-3.0-24			240	1	14.8											
734028	HLA 12-240360-3.0-24			240	3	8.6											
734035	HLA 12-480360-3.0-24			480	3	4.3											
734042	HLA 12-600360-3.0-24			600	3	3.5											
734363	HLA 12-208160-5.0-24	5	17100	208	1	26		27.6	24'	580	8'	167					
734059	HLA 12-208360-5.0-24			208	3	15.4											
734066	HLA 12-240160-5.0-24			240	1	23.1											
734073	HLA 12-240360-5.0-24			240	3	13.4											
734080	HLA 12-480360-5.0-24			480	3	6.7											
734097	HLA 12-600360-5.0-24			600	3	5.4											
734370	HLA 12-208160-7.5-24	7.5	25600	208	1	38		41.4			8'	167					
734103	HLA 12-208360-7.5-24			208	3	22.3											
734110	HLA 12-240160-7.5-24			240	1	33.6											
734127	HLA 12-240360-7.5-24			240	3	19.4											
734134	HLA 12-480360-7.5-24			480	3	9.7											
734141	HLA 12-600360-7.5-24			600	3	7.8											
734158	HLA 16-208360-10.0-24	10	34150	208	3	29.3		21.7	40'	1500	10'	193					
734165	HLA 16-240160-10.0-24			240	1	44											
734172	HLA 16-240360-10.0-24			240	3	25.5											
734189	HLA 16-480360-10.0-24			480	3	12.7											
734196	HLA 16-600360-10.0-24			600	3	10.2											
734202	HLA 20-208360-15.0-24			15	51200	208							3	43.5	19.2	43'	2450
734219	HLA 20-240360-15.0-24	240	3			38.1											
734226	HLA 20-480360-15.0-24	480	3			19											
734233	HLA20-600360-15.0-24	600	3			15.2											
734240	HLA20-480360-20.0-24	20	68300			480	3	25.1	26.2			13'	225				
734257	HLA20-600360-20.0-24					600	3	20									
734264	HLA20-480360-25.0-24	25	85400	480	3	31.1	32.8			13'	225						
734271	HLA20-600360-25.0-24			600	3	24.9											

MODEL NO.	A	B	C		D	E	F	G
			3 ph.	1 ph.				
HLA 12	17 3/4	22 3/8	19 3/4	20 5/8	16 1/4	10 1/2	14	3
HLA 16	20 3/4	26 3/8	20 3/4	21 5/8	20 1/4	11 1/2	18	4
HLA 20	24 3/4	30 3/8	22 1/2	N/A	24 1/4	12 1/2	22	4 1/2

### Control Options (factory installed)

CODE NO.	DESCRIPTION
T	Built-in t-stat 45-90 (add suffix "T" to model number)
120V	Control transformer w/ primary fusing (delete 24 & add 120)
208	208/240V control available on 208/240V units (delete 24 and add 208 or 240)
240	
D	Disconnect Switch
P	Pilot Light





**Control Panel**



**Back**

The Washdown Series unit heaters are electric unit heaters constructed for use in area that require washing or hosing of equipment due to dirty or dusty industrial environments in non hazardous locations. The totally enclosed water-tight construction made with corrosion-resistant material make the heater ideal for industrial heating applications. The Washdown is made with all built-in controls and safety temperature controls wired in a non-metallic Nema 4x control panel with single-point power connections.

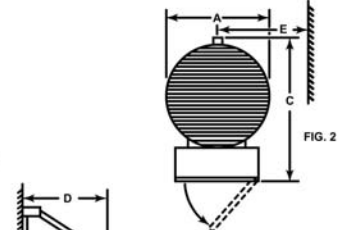
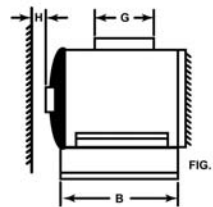
- Heavy-duty 304 16 Ga. Stainless steel shroud
- Nema 4x non-metallic control panel
- 24-volt transformer and control panel
- 3-position switch (off-heat-fan)
- Capillary thermostat with stainless steel sensor
- Automatic reset thermal cutout
- Totally enclosed U.L. listed motor
- Pilot light (power on indicator)
- Stainless steel finned tubular element
- Control panel on bottom of unit for ease of installation and service
- Disconnect switch with enclosure door interlock
- Front grill rotates to direct airflow
- Single point power connection
- Epoxy painted cold roll steel models available – consult factory
- Meets all U.L., NEC, and OSHA requirements (when installed as directed)
- Corrosion-resistant in high humidity and water saturated area (for areas where corrosion-resistance is needed in non-hazardous area, contact factory for heater application and optional materials)

### Remote Rain Tight Thermostat

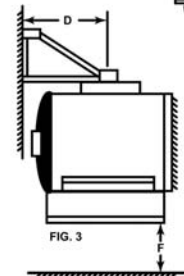
UPC	MODEL No.	DESCRIPTION
696334		
503242	TW155	1 POLE
503259	TW255	2 POLE



**NOTE:** To delete the integral thermostat, drop the "T" in the model number



HEATER SIZE	A	B	C	D	E	F	G	H
3.0-7.5	12	18	19.75	15.25	16.25	6'	8.00	6.00
10.0-15.0	14	19	21.75	15.25	18.00	6'	8.00	6.00
20-30	16	27	28.75	19.50	17.50	6'	15.50	4.50
40-48	18	31	30.75	19.50	19.50	6'	21.75	2.75



### MOUNTING BRACKET KITS

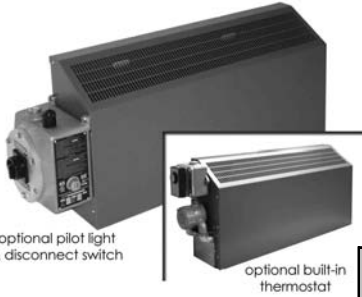
<p>Ideal for use in buildings that have substantial walls. Arm (only) can be bolted directly to structural steel.</p> <p><b>A5520</b></p>	<p>Simple and economical if adequate overhead structure exists. Requires 1/2" pipe, cut and threaded (not supplied).</p> <p><b>W5550</b></p>	<p>Particularly useful in buildings with insufficient strength to use other types of mounts. Requires 3 1/2" pipe (4" O.D.-not supplied).</p> <p><b>H5550</b></p>	<p>Requires 3 1/2" SCHEDULE 40 PIPE (NOT SUPPLIED).</p> <p><b>P5550</b></p>
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SIZE KW	UPC	STAINLESS STEEL COMBINATION BRACKET	UPC	WALL MTG. BRKT. EPOXY COATED	UPC	HANGING BRACKET *	UPC	PIPE MTG. BRACKET *
3.3-15	713672	A5520/UHB	709002	W5520/WMK	713702	H5520/HMK	713689	P5520/PMK
20-48	N/A	N/A	713733	W5550/WMK	713719	H5550/HMK	713696	P5550/PMK

\*Material heavy duty epoxy coated.

UPC 686334	MODEL	KW	BTU'S	VOLTS	PH	AMPS	CONTROL VOLTAGE	TEMP RISE	AIR THROW	CFM	MOUNT HEIGHT	WT.
713047	81WD3T01	3.3	11200	208	1	15.9	24	26	20	400	6	58
713054	83WD3T01			208	3	9.2						
713061	21WD3T01			240	1	13.7						
713078	23WD3T01			240	3	7.9						
713085	71WD3T01			277	1	11.9						
713092	43WD3T01			480	3	5						
713108	63WD3T01			600	3	3.2						
713115	81WD5T01	5	17100	208	1	24.1		40				
713122	82WD5T01			208	1	24.1						
					3	13.9						
713139	21WD5T01			240	1	20.8						
713146	22WD5T01			240	1	20.8						
					3	12.1						
713153	71WD5T01			277	1	18.1						
713160	43WD5T01	480	3	6.1								
713177	63WD5T01	600	3	4.8								
713184	81WD7T01	7.5	25600	208	1	36.1		60				
713191	82WD7T01			208	1	36.1						
					3	20.8						
713207	21WD7T01			240	1	31.3						
713214	22WD7T01			240	1	31.3						
					3	13.1						
713221	71WD7T01			277	1	27.1						
713238	43WD7T01	480	3	9.1								
713245	63WD7T01	600	3	7.2								
713252	81WD10T01	10	34130	208	1	47.8	45					
713269	82WD10T01			208	1	47.8						
					3	27.7						
713276	21WD10T01			240	1	41.2						
713283	22WD10T01			240	1	41.2						
					3	24.1						
713290	71WD10T01			277	1	36.1						
713306	43WD10T01	480	3	12.1								
713313	63WD10T01	600	3	9.6								
713399	81WD15T01	15	51200	208	1	72.1	68					
713405	82WD15T01			208	1	72.1						
					3	41.7						
713412	21WD15T01			240	1	62.5						
713429	22WD15T01			240	1	62.5						
					3	36.1						
713443	43WD15T01			480	3	18.1						
713450	63WD15T01	600	3	14.5								
713467	83WD20T01	20	68260	208	3	55.6	45					
713474	23WD20T01			240	3	48.2						
713481	43WD20T01			480	3	24.1						
713498	63WD20T01			600	3	19.3						
713504	83WD25T01	25	85325	208	3	69.5	56					
713511	23WD25T01			240	3	60.2						
713528	43WD25T01			480	3	30.1						
713535	63WD25T01			600	3	24.1						
713542	83WD30T01	30	102390	208	3	83.4	68					
713559	23WD30T01			240	3	72.3						
713566	43WD30T01			480	3	36.1						
713573	63WD30T01			600	3	28.9						
713603	43WD40T01	40	136520	480	3	48.2	70					
713610	63WD40T01			600	3	38.5						
713641	43WD48T01	48	163824	480	3	57.8	84					
713658	63WD48T01			600	3	46.2						

NOTE : ALL WASHDOWN UNITS ARE MADE TO ORDER-CONSULT FACTORY FOR LEAD TIMES



Shown with optional disconnect, pilot light, & unit mounted thermostat



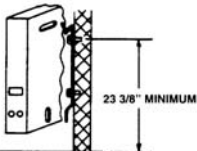
UPC 686334	MODEL NUMBER	DESCRIPTION	WT
538107	EPETD8S	50-90° F 24-277 VOLT SPST	5
538077	EPETD8D	50-90° F 24-277 VOLT DPST	5

### NEMA 4 HOSE DOWN RATED

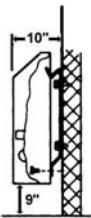
- Cabinet size 18" high, 9" wide
- Color gray powder coat textured finish
- Heavy Duty 16 Ga. steel
- Fully assembled
- Slope top design

### Wall Mounting Brackets

(standard with Heater)



Hazardous Location Heater is easily installed by one person.

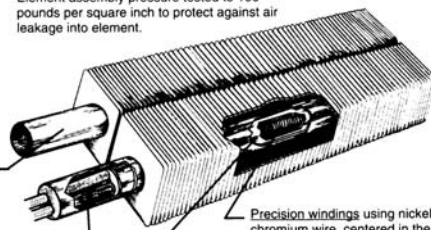


A 9 inch minimum space from bottom of heater to the floor is required for ample air flow.

Junction box extends 5-1/2" from the right end of the housing

LISTING	UPC 686334	MODEL NUMBER	WATTS	BTU'S	VOLTS	AMPS	CABINET LENGTH	NO. OF ELEMENTS	MAX FUSE SIZE	WT
CLASS 1, GROUP B, C, & D DIVISION 1 & 2 (T-ZA) 536° F UL LISTED & CSA CERTIFIED	655002	FEP-1812-1RA	1800	6143	120	15	34"	1	20	50
	655019	FEP-1820-1RA			208	8.7			10	
	655026	FEP-1824-1RA			240	7.5			10	
	655033	FEP-1827-1RA			277	6.5			10	
	655040	FEP-1848-1RA			480	3.8			5	
	655057	FEP-3620-1RA	3600	12286	208	17.3	34"	2	20	54
	655064	FEP-3624-1RA			240	15			20	
	655071	FEP-3627-1RA			277	13			15	
	655088	FEP-3648-1RA			480	7.5			10	
	655170	FEP-3657-1RA	600	6	10					
	655095	FEP-3820-1RA	3800	12969	208	18.3	58"	1	20	80
	655101	FEP-3824-1RA			240	15.8			20	
	655118	FEP-3827-1RA			277	13.7			15	
	655125	FEP-3848-1RA	480	7.9	10					
	655132	FEP-7620-1RA	7600	25938	208	36.5	58"	2	40	85
666149	FEP-7624-1RA	240			31.7	35				
655156	FEP-7627-1RA	277			27.4	30				
655163	FEP-7648-1RA	480			15.8	20				
655187	FEP-7657-1RA	600			12.7	15				
CLASS 1, GROUP B, C, & D DIVISION 1 & 2 (T-ZA) 356° F CSA NRTL/C CERTIFIED	655194	FEP-0812-1RA	800	2730	120	6.7	34"	1	10	50
	655200	FEP-0820-1RA			208	3.8			5	
	655217	FEP-0824-1RA			240	3.3			5	
	655224	FEP-0827-1RA			277	2.9			5	
	655231	FEP-0848-1RA			480	1.7			5	
	655248	FEP-1612-1RA	1600	5460	120	13.3	34"	2	15	54
	655255	FEP-1620-1RA			208	7.7			10	
	655262	FEP-1624-1RA			240	6.7			10	
	655279	FEP-1627-1RA			277	5.8			10	
	655286	FEP-1648-1RA	480	3.3	5					
	655385	FEP-1657-1RA	600	2.7	5					
	655293	FEP-1712-1RA	1700	5802	120	14.2	58"	1	20	80
	655309	FEP-1720-1RA			208	8.2			10	
	655316	FEP-1724-1RA			240	7.1			10	
	655323	FEP-1727-1RA			277	6.1			10	
655330	FEP-1748-1RA	480			3.5	5				
655347	FEP-3420-1RA	3400	11604	208	16.3	58"	2	20	85	
355354	FEP-3424-1RA			240	14.2			20		
655361	FEP-3427-1RA			277	12.3			15		
655378	FEP-3448-1RA			480	7.1			10		
655392	FEP-3457-1RA			600	5.7			10		

Element assembly pressure tested to 100 pounds per square inch to protect against air leakage into element.



Corrosion-Resistant Sheath provides resistance to oxidation, corrosion, plus a broad range of chemicals and atmospheres.

Lead Arrangement. Solid nickel pins overlap the resistance windings inside the core. They are permanently connected during the swaging operation for trouble-free electrical continuity.

Precision windings using nickel-chromium wire, centered in the unit for even, efficient heat.

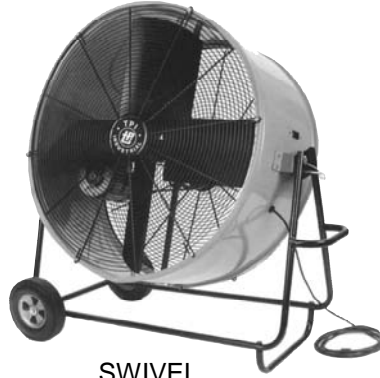
Efficient Dielectric compacted to a predetermined density results in good heat transfer and strength to withstand normal shock and vibration.

### FACTORY INSTALLED OPTIONS

SUFFIX	DESCRIPTION
T1	EPETD8S single pole t-stat factory mounted to 120v-277v units
T2	EPETD8D double pole t-stat factory mounted to 120v- 277v units
C1-TD	Control section with single pole t-stat and disconnect switch (all units)
C1-TDP	Control section w/ single pole t-stat and disconnect switch & pilot light (all units)



STANDARD



SWIVEL

- Powder coated 20 gauge steel housing has front and rear roll formed embossments for added strength and rigidity
- Swivel model rotates 360 in 12.5 increments and locks in place with a steel locking pin
- 10" hard rubber wheels
- External junction boxes on dual voltage models allow units to be wired for either voltage without removing guards
- Hazardous Location Models have explosion proof motors and external junction boxes rated for Class I, Group D and Class II, Groups E, F & G, UL Listed
- Meets OSHA Standards
- 1 year limited warranty

SIZE	MOTOR TYPE	MOTOR				STANDARD MODEL			SWIVEL MODEL		
						UPC CODE	MODEL	WT	UPC CODE	MODEL	WT
		HP	CFM	RPM	AMPS	636334	NUMBER	(LBS)	636334	NUMBER	(LBS)
36"	120/240 V 1	1/2	14500	500	7.8/3.9	850896	PB-36-B-HL	135	850957	PBS-36-B-HL	160
42"	PH	3/4	18200	430	10.8/5.4	850902	PB-42-B-HL	150	850964	PBS-42-B-HL	175
48"	explosion	1	22700	390	13.2/6.6	850919	PB-48-B-HL	173	850971	PBS-48-B-HL	198



Meets OSHA standards  
1 year limited warranty

### Hazardous Location Circulator Heads

SIZE	CFM	AMPS				Wt. (lbs.)	120/240v	240/480v
		120v	240v/1 Ph	240v/3 Ph	480v		1 PHASE	3 PHASE
							MODEL No.	MODEL No.
24"	8000	5	2.6	1.4	0.7	66	ACH 24-EX1	ACH 24-EX3
30"	9200	5	2.6	1.4	0.7	69	ACH 30-EX1	ACH 30-EX3

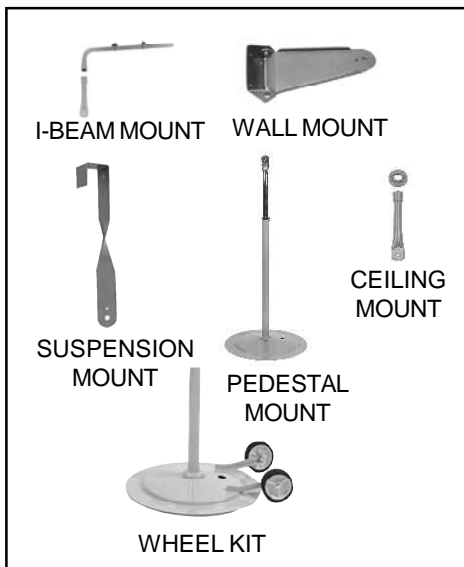
Note: Can be used with any TPI Industrial circulator mount

Hazardous Location -

Class I Group D

Class II Group F & G

1-speed unassembled head

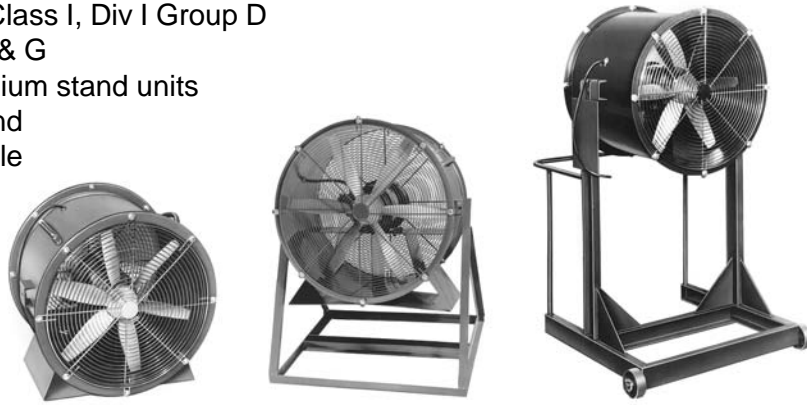


### Circulator Head Mounting Accessories

MOUNTS	YELLOW (HEAVY DUTY)			GRAY COLOR		
	MODEL NUMBER	UPC CODE 686334	WT (LBS)	MODEL NUMBER	UPC CODE 686334	WT (LBS)
PEDESTAL POLE & BASE	HDM-P	796095	34	ACM-P	796187	34
WALL MOUNT	HDM-W	796101	3	ACM-W	796194	3
I-BEAM MOUNT	HDM-I	796118	9	ACM-I	796200	9
SUSPENSION MOUNT	N/A	N/A	N/A	ACM-S	796224	2
CEILING MOUNT	HDM-C	796125	3	ACM-C	796217	3
WHEEL KIT*	HDWK	796392	2	HD-WK	796392	2

\*Base is not included with the wheel kit.

- Explosion proof motors are Class I, Div I Group D and Class II, Div I, Groups F & G
- 360° swivel on high and medium stand units
- 14 gauge steel body and stand
- Acid resistant coating available
- Baked enamel coating
- Cast aluminum props
- Meets OSHA requirements
- 1 year limited warranty



Low Stand

Medium Stand

High Stand

SIZE	MODEL NUMBER	HP	RPM	CFM	DB'S AT 10	SHIPPING WT. STAND			STAND OPTIONS AVAILABILITY					
						LOW	MED	HIGH	1 PH	3 PH	1 PH	3 PH	1 PH	3 PH
MODEL NUMBER SUFFIX'S									- L	- L - 3	- M	- M - 3	- H	- H - 3
18"	MCD18-1/4	1/4	1725	3050	74	103	145	210	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD18-1/3	1/3		3450	76	105	150	215	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD18-1	1		4600	77	117	165	230	- L	- L - 3	- M	- M - 3	- H	- H - 3
24"	MCD24-1/4	1/4	1725	5200	80	115	165	230	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD24-1/3	1/3	1140	5300	74	126	175	250	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD24-1/2	1/2	1725	6000	80	120	170	240	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD24-3/4	3/4	1140	6900	74	140	190	260	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD24-1	1	1725	7400	82	130	180	250	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD24-1.5	1 1/2	1725	8200	84	137	190	255	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD24-3	3	1725	10500	87	160	210	270	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
30"	MCD30-1/3	1/3	1140	6900	80	150	205	260	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD30-1/2	1/2	1725	8900	86	141	195	250	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD30-3/4	3/4	1140	10400	80	210	260	320	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD30-1	1	1140	11200	71	200	260	310	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD30-1.5	1 1/2	1725	12000	92	200	250	310	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD30-2	2	1140	14000	84	225	270	330	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD30-3	3	1725	16000	94	220	265	325	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
36"	MCD36-1	1	1140	13000	82	250	320	375	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD36-1.5	1 1/2	1725	14850	88	250	320	375	- L	- L - 3	- M	- M - 3	- H	- H - 3
	MCD36-2	2	1140	17500	82	255	325	380	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD36-3	3	1725	18500	90	260	330	390	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD36-5	5	1725	23000	94	260	330	390	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
42"	MCD42-2	2	1140	19500	85	315	415	565	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD42-5	5	1725	27000	98	320	420	570	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
48"	MCD48-5	5	1140	32000	92	500	620	710	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD48-7.5	7 1/2	1140	37000	105	625	745	835	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3
	MCD48-10	10	1140	41000	105	682	800	890	N/A	- L - 3	N/A	- M - 3	N/A	- H - 3

**Note:** Single phase motors are field convertible 115v/230v. Three phase are field convertible 230v/460v. Motors set at factory to lower voltage unless requested on purchase order.

### Manual Starter Switches

MODEL NUMBER		H.P.
1 PH	3 PH	RATING
SW-1/4	SW-1/4-3	1/4-1/3
SW-1/2	SW-1/2-3	1/2-3/4
SW-1	SW-1-3	1
SW-1.5	SW-1.5-3	1 1/2
N/A	SW-2-3	2
N/A	SW-3-3	3
N/A	SW-5-3	5
N/A	SW-7.5-3	7 1/2

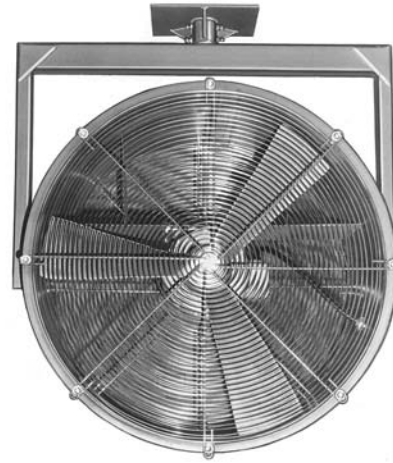
### Polyolifin Casters (for low & medium stand)

MODEL NO.	FAN SIZE	WHEEL SIZE	SHIP WT.
CAS-18	18"-30"	4"	10
CAS-48	36"-48"	6"	14





**1-Way Swivel**

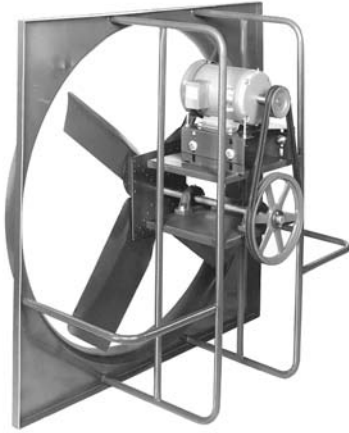


**2-Way Swivel**

- Explosion proof motors are Class I, Div I Group D and Class II, Div I, Groups F & G
- 14 gauge steel body and stand
- Front and rear spiral guards
- Meets OSHA requirements
- 1 year limited warranty

**Note:** Single phase motors are field convertible 115v/230v. Three phase are field convertible 230v/460v. Motors set at factory to lower voltage unless requested on purchase order.

BLADE DIA.	MODEL NUMBER	HP	RPM	CFM	DB'S AT 10'	SHIPPING WT.		EXPLOSION PROOF			
						1-WAY SWIVEL	2-WAY SWIVEL	1-WAY SWIVEL		2-WAY SWIVEL	
								1 PH	3 PH	1 PH	3 PH
<b>MODEL NUMBER SUFFIX'S</b>								- T	- T - 3	- S	- S - 3
18"	MCD18-1/4	1/4	1725	3050	74	130	140	- T	- T - 3	- S	- S - 3
	MCD18-1/3	1/3	1725	3450	76	135	145	- T	- T - 3	- S	- S - 3
	MCD18-1	1	1725	4600	77	145	155	- T	- T - 3	- S	- S - 3
24"	MCD24-1/4	1/4	1725	5200	80	145	155	- T	- T - 3	- S	- S - 3
	MCD24-1/3	1/3	1140	5300	74	155	165	- T	- T - 3	- S	- S - 3
	MCD24-1/2	1/2	1725	6000	80	150	160	- T	- T - 3	- S	- S - 3
	MCD24-3/4	3/4	1140	6900	74	170	180	N/A	- T - 3	N/A	- S - 3
	MCD24-1	1	1725	7400	82	160	170	- T	- T - 3	- S	- S - 3
	MCD24-1 1/2	1 1/2	1725	8200	84	165	175	- T	- T - 3	- S	- S - 3
30"	MCD24-3	3	1725	10500	87	190	200	N/A	- T - 3	N/A	- S - 3
	MCD30-1/3	1/3	1140	6900	80	180	190	- T	- T - 3	- S	- S - 3
	MCD30-1/2	1/2	1725	8900	86	170	180	- T	- T - 3	- S	- S - 3
	MCD30-3/4	3/4	1140	10400	80	240	250	N/A	- T - 3	N/A	- S - 3
	MCD30-1	1	1140	11200	81	230	240	- T	- T - 3	- S	- S - 3
	MCD30-1 1/2	1 1/2	1725	12000	92	230	240	- T	- T - 3	- S	- S - 3
36"	MCD30-2	2	1140	14000	84	255	265	N/A	- T - 3	N/A	- S - 3
	MCD30-3	3	1725	16000	94	250	260	N/A	- T - 3	N/A	- S - 3
	MCD36-1	1	1140	13000	82	295	305	- T	- T - 3	- S	- S - 3
	MCD36-1 1/2	1 1/2	1725	14850	88	295	305	- T	- T - 3	- S	- S - 3
	MCD36-2	2	1140	17500	82	300	310	N/A	- T - 3	N/A	- S - 3
36"	MCD36-3	3	1725	18500	90	315	325	N/A	- T - 3	N/A	- S - 3
	MCD36-5	5	1725	23000	94	305	315	N/A	- T - 3	N/A	- S - 3



- Explosion proof motors are Class I, Div I Group D and Class II, Div I, Groups F & G
- Fans shipped completely assembled
- Heavy gauge steel blades
- Washdown motor available
- Cast aluminum blades for explosion proof requirements
- 14 gauge steel panel with welded steel pipe bracing
- Acid resistant coating available
- 1 year limited warranty

- OPTIONS:**
- CES shutters
  - EMF front guards
  - EMF rear guards
  - Reversed air flow
  - Flat front venturi

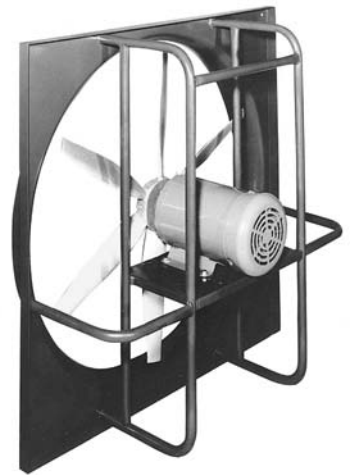
BLADE DIA.	1-PHASE 115/230V-60Hz	3-PHASE 230/460V-60Hz	PANEL SIZE (sq.)	HP	RPM	CFM	DB'S AT 10	WT.
	MODEL NO.	MODEL NO.						
24"	EHB24-1/4	EHB24-1/4-3	30"	1/4	780	4900	60	100
	EHB24-1/2	EHB24-1/2-3		1/2	980	6219	66	130
	EHB24-3/4	EHB24-3/4-3		3/4	1140	7090	71	140
	EHB24-1	EHB24-1-3		1	1250	7180	73	140
30"	EHB30-1/4	EHB30-1/4-3	36"	1/4	540	7178	61	140
	EHB30-1/3	EHB30-1/3-3		1/3	595	7909	63	150
	EHB30-1/2	EHB30-1/2-3		1/2	640	8507	64	155
	EHB30-3/4	EHB30-3/4-3		3/4	770	10235	66	165
	EHB30-1	EHB30-1-3		1	985	10668	70	170
	EHB30-1 1/2	EHB30-1 1/2-3		1 1/2	1140	12473	77	180
36"	EHB36-1/3	EHB36-1/3-3	42"	1/3	460	9113	64	160
	EHB36-1/2	EHB36-1/2-3		1/2	530	10500	66	180
	EHB36-3/4	EHB36-3/4-3		3/4	605	11985	68	200
	EHB36-1	EHB36-1-3		1	665	13174	70	200
	EHB36-1 1/2	EHB36-1 1/2-3		1 1/2	720	13660	72	210
	N/A	EHB36-2-3		2	870	16554	74	215
42"	EHB42-1/3	EHB42-1/3-3	48"	1/3	335	10614	64	205
	EHB42-1/2	EHB42-1/2-3		1/2	390	12343	65	210
	EHB42-3/4	EHB42-3/4-3		3/4	435	14040	67	225
	EHB42-1	EHB42-1-3		1	490	15429	69	230
	EHB42-1 1/2	EHB42-1 1/2-3		1 1/2	550	17420	71	240
	N/A	EHB42-2-3		2	725	20653	74	245
	N/A	EHB42-3-3		3	830	23645	79	250
48"	EHB48-1/2	EHB48-1/2-3	54"	1/2	330	15230	69	190
	EHB48-3/4	EHB48-3/4-3		3/4	370	17339	70	195
	EHB48-1	EHB48-1-3		1	410	19188	71	235
	EHB48-1 1/2	EHB48-1 1/2-3		1 1/2	465	21731	72	245
	N/A	EHB48-2-3		2	520	24274	74	250
	N/A	EHB48-3-3		3	680	28150	80	270
	N/A	EHB48-5-3		5	800	33160	83	285
60"	EHB60-1	EHB60-1-3	66"	1	280	23090	76	380
	EHB60-1 1/2	EHB60-1 1/2-3		1 1/2	340	28068	77	390
	N/A	EHB60-2-3		2	390	32200	78	395
	N/A	EHB60-3-3		3	450	37183	84	410
	N/A	EHB60-5-3		5	540	44600	86	420

DIMENSIONS			
SIZE	A	B	C
24"	24	30	16
30"	30	36	16
36"	36	42	18
42"	42	48	20
48"	48	54	21
60"	60	66	26

- A-** Blade diameter
- B-** Panel size
- C-** Depth dimension varies with motor selection

DIMENSIONS			
SIZE	A	B	C
12"	12	16	11
16"	16	20	11
20"	20	24	13
24"	24	30	15
30"	30	36	15
36"	36	42	18
42"	42	48	18
48"	48	54	20
60"	60	66	22

- Explosion proof motors are Class I, Div I Group D and Class II, Div I, Groups F & G
- Fans shipped completely assembled
- Heavy gauge steel blades
- Washdown motor available
- Cast aluminum blades for explosion proof requirements
- 14 gauge steel panel with welded steel pipe bracing
- Acid resistant coating available
- 1 year limited warranty



**A-** Blade diameter

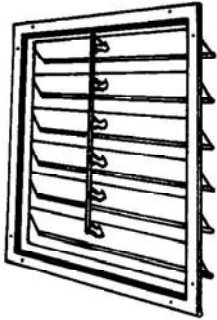
**B-** Panel size

**C-** Depth dimension varies with motor selection

**OPTIONS:**

- CES shutters
- EMF front guards
- EMF rear guards
- Reversed air flow
- Flat front venturi

BLADE DIA.	1-PHASE	3-PHASE	PANEL SIZE (sq.)	HP	RPM	CFM	DB'S AT 10	WT.
	115/230V-60Hz	230/460V-60Hz						
	MODEL NO.	MODEL NO.				0" SP		
12"	EHD12-1/4	EHD12-1/4-3	16"	1/4	1725	1180	74	35
16"	EHD16-1/4	EHD16-1/4-3	20"	1/4	1725	2800	75	45
18"	EHD18-1/3	EHD18-1/3-3	24"	1/3	1725	3375	75	60
	EHD18-1/2	EHD18-1/2-3		1/2	1725	4150	76	60
20"	EHD20-1/4	EHD20-1/4-3	24"	1/4	1725	3720	75	60
	EHD20-1/2	EHD20-1/2-3		1/2	1725	4800	76	65
	EHD20-1	EHD20-1-3		1	1725	6900	77	70
24"	EHD24-1/4	EHD24-1/4-3	30"	1/4	1725	5200	82	135
	EHD24-1/3	EHD24-1/3-3		1/3	1150	4975	75	145
	EHD24-1/2	EHD24-1/2-3		1/2	1725	6510	82	140
	EHD24-3/4	EHD24-3/4-3		3/4	1725	6900	83	145
	EHD24-1	EHD24-1-3		1	1725	7425	83	155
	EHD24-2	EHD24-2-3		2	1725	9525	83	165
	EHD24-3	EHD24-3		3	1725	10500	85	170
30"	EHD30-1/3	EHD30-1/3-3	36"	1/3	1150	6950	79	145
	EHD30-1/2	EHD30-1/2-3		1/2	1725	8980	89	135
	EHD30-3/4	EHD30-3/4-3		3/4	1150	10440	79	175
	EHD30-1	EHD30-1-3		1	870	10640	74	215
	EHD30-1 1/2	EHD30-1 1/2-3		1 1/2	1725	12000	89	165
	EHD30-2	EHD30-2-3		2	1150	14000	82	215
	EHD30-3	EHD30-3-3		3	1725	16000	89	190
36"	EHD36-1	EHD36-1-3	42"	1	1150	13600	84	225
	EHD36-2	EHD36-2-3		2	1150	17620	84	250
	EHD36-3	EHD36-3-3		3	1150	20500	85	255
	EHD36-5	EHD36-5-3		5	1725	28000	94	250
42"	EHD42-1	EHD42-1-3	48"	1	870	15800	82	300
	EHD42-2	EHD42-2-3		2	1150	17964	88	260
	EHD42-3	EHD42-3-3		3	1150	24500	88	270
	EHD42-5	EHD42-5-3		5	1150	28970	88	285
48"	EHD48-3	EHD48-3-3	54"	3	1150	28600	92	290
	EHD48-5	EHD48-5-3		5	1150	32000	94	305
60"	EHD60-3	EHD60-3-3	66"	3	1150	40000	97	700
	EHD60-5	EHD60-5-3		5	1150	45000	97	730
	EHD60-7 1/2	EHD60-7 1/2-3		7 1/2	870	47000	92	740
	EHD60-10	EHD60-10-3		10	870	57200	93	450



- Aluminum construction
- Heavy duty blades
- Weather stripping for tighter seal

FAN SIZE	MODEL NO.	ROUGH OPENING	OVERALL SIZE	WT.
12"	CES 12	12" X 12"	15" X 15"	4
16"	CES 16	16" X 16"	19" X 19"	5
20"	CES 20	20" X 20"	23" X 23"	8
24"	CES 24	24" X 24"	27" X 27"	9
30"	CES 30	30" X 30"	33" X 33"	12
36"	CES 36	36" X 36"	39" X 39"	12
42"	CES 42	42" X 42"	45" X 45"	22
48"	CES 48	48" X 48"	51" X 51"	25
60"	CES 60	60" X 60"	63" X 63"	31

**Motorized Supply Air Intake Shutter**

(Motor not rated for Hazardous Location)

- Inward opening blades for use with intake fans when shutter is located directly in air stream
- Galvanized construction
- 115V or 230V, 60HZ, 1 PH

MODEL NO.	DESCRIPTION	WT.
MK-1	FOR SHUTTER SIZES 12" THRU 30"	5
MK-2	FOR SHUTTER SIZES 36" THRU 60"	8

**Motor Kit**

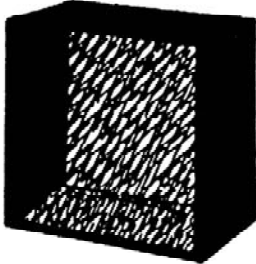
(Motor not rated for Hazardous Location)

- Used to open Shutter when shutter is used to provide make-up air (Shutter should be one size larger than exhaust fan size and should be located on opposite wall)
- Used for positive closure of exhaust shutter
- 115V or 230V, 60HZ, 1 PH

FAN SIZE	MODEL NO.	ROUGH OPENING	OVERALL SIZE	WT.
24"	CESM-24	24" X 24"	27" X 27"	15
30"	CESM-30	30" X 30"	33" X 33"	18
36"	CESM-36	36" X 36"	39" X 39"	21
42"	CESM-42	42" X 42"	45" X 45"	35
48"	CESM-48	48" X 48"	51" X 51"	42
60"	CESM-60	60" X 60"	63" X 63"	56

Fan Guards

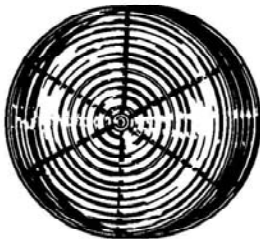
**Rear Box Guard**



- For EHB and EHD models
- 1/4" smaller than "B" dimension of fan
- Meets OSHA requirements

FAN SIZE	MODEL NO.	EXP. MOTOR DEPTH DIMENSION
12"	EMR-12	15"
16"	EMR-16	15"
20"	EMR-20	15"
24"	EMR-24	18"
30"	EMR-30	18"
36"	EMR-36	20"
42"	EMR-42	20"
48"	EMR-48	24"
60"	EMR-60	26"

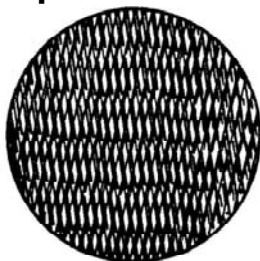
**Spiral Front or Rear Guard**



- For EHD models only
- Available for fan sizes 12" - 24" only
- Rear guard factory installed only
- Meets OSHA requirements

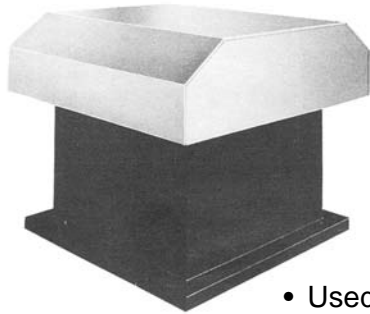
FAN SIZE	MODEL NO.	
	FRONT	REAR
12"	SF-12	SR-12
16"	SF-16	SR-16
20"	SF-20	SR-20
24"	SF-24	SR-24

**Expanded Metal Front Guard**



- For EHB, EHD, and IE models
- 1" larger than blade size
- 1/2" expanded metal construction
- Meets OSHA requirements

FAN SIZE	MODEL NO.
12"	EMF-12
16"	EMF-16
20"	EMF-20
24"	EMF-24
30"	EMF-30
36"	EMF-36
42"	EMF-42
48"	EMF-48
60"	EMF-60



**OPTIONS:**

- Roof curbs
- Filters
- Protective coatings
- Explosion proof
- Direct drive

- Used for exhaust or intake
- Heavy industrial steel base with galvanized hood
- Standard blades are heavy gauge steel
- Bird screen included
- 1 year limited warranty

- A-** Minimum roof hole size (square)
- B x C-** Hold length x width
- D-** Hood height
- E-** Roof curb O.D. (square)

DIMENSIONS				
SIZE	A	B x C	D	E
24"	30	42 x 53	30	39
30"	36	52 x 60	36	45
36"	42	60 x 69	40	51
42"	48	60 x 88	43	57
48"	54	74 x 89	46	63
54"	60	82 x 98	54	69
60"	66	90 x 107	56	75

BLADE DIA.	1-PHASE	3-PHASE	HP	RPM	CFM-STATIC PRESSURE				DB'S AT 10'	WT
	115/230v-60Hz	230/460v-60 Hz								
	MODEL No.	MODEL No.			0"	1/8"	1/4"	1/2"		
24"	RE24-1/4	RE24-1/4-3	1/4	780	4900	4222	2807	800	60	340
	RE24-1/2	RE24-1/2-3	1/2	980	6219	5716	5061	2600	66	350
	RE24-3/4	RE24-3/4-3	3/4	1140	7090	6648	6144	4413	71	360
	RE24-1	RE24-1-3	1	1250	7180	6696	6271	4464	73	365
30"	RE30-1/3	RE30-1/3-3	1/3	595	7909	6380	3617	767	60	385
	RE30-1/2	RE30-1/2-3	1/2	640	8507	7170	4486	1373	64	385
	RE30-3/4	RE30-3/4-3	3/4	770	10235	9192	7657	3833	66	400
	RE30-1	RE30-1-3	1	975	10668	9959	8626	5184	70	400
	RE30-1 1/2	RE30-1 1/2-3	1 1/2	1140	12473	11867	11112	8135	77	410
36"	RE36-1/3	RE36-1/3-3	1/3	460	9113	6992	3722	486	64	425
	RE36-1/2	RE36-1/2-3	1/2	530	10500	8821	5985	2084	66	425
	RE36-3/4	RE36-3/4-3	3/4	605	11985	10583	8563	4017	68	435
	RE36-1	RE36-1-3	1	665	13174	11932	10299	5729	70	440
	RE36-1 1/2	RE36-1 1/2-3	1 1/2	720	13660	12012	9579	5000	72	440
	RE36-2	RE36-2-3	2	870	16554	15376	14088	9691	74	455
42"	RE42-1/2	RE42-1/2-3	1/2	390	12343	9352	4957	1642	65	540
	RE42-3/4	RE42-3/4-3	3/4	435	14040	11530	7633	3311	67	545
	RE42-1	RE42-1 -3	1	490	15429	13194	10438	4668	69	555
	RE42-1 1/2	RE42-1 1/2-3	1 1/2	550	17420	15421	13117	7289	71	560
	RE42-2	RE42-2-3	2	725	20653	19128	17503	11319	74	570
	N/A	RE42-3 -3	3	830	23645	22296	20984	17290	79	585
48"	RE48-3/4	RE48-3/4-3	3/4	370	17339	13700	7389	2244	70	650
	RE48-1	RE48-1-3	1	410	19188	16078	10903	4037	71	660
	RE48-1 1/2	RE48-1 1/2-3	1 1/2	465	21731	19010	14991	7081	72	665
	RE48-2	RE48-2-3	2	520	24274	21943	19080	10125	74	680
	N/A	RE48-3 -3	3	680	28150	25683	23615	16930	80	700
	N/A	RE48-5-3	5	800	33160	30900	29290	25000	83	720
54"	RE54-1	RE54-1-3	1	410	23130	20588	17500	9600	73	910
	RE54-1 1/2	RE54-1 1/2-3	1 1/2	450	25400	22600	19300	10316	75	920
	RE54-2	RE54-2-3	2	480	27200	24312	20660	11010	76	930
	N/A	RE54-3-3	3	550	31213	28722	25830	15420	77	940
	N/A	RE54-5-3	5	660	37458	35238	32893	26538	80	960
60"	RE60-1	RE60-1-3	1	250	23090	19161	12850		76	1150
	RE60-1 1/2	RE60-1 1/2-3	1 1/2	340	28068	23283	15624	8000	77	1150
	RE60-2	RE60-2-3	2	390	32200	26710	17924	9380	78	1200
	N/A	RE60-3-3	3	450	37183	32356	25324	15013	84	1220
	N/A	RE60-5-3	5	540	44600	41232	35819	23237	86	1240
	N/A	RE60-7 1/2-3	7 1/2	620	50184	47603	43981	32880	89	1285

DIMENSIONS				
SIZE	A	B	C	D
24"	34	30	39	19
30"	40	36	45	22
36"	46	42	51	25
42"	52	48	57	27
48"	58	54	63	30
54"	64	60	69	36
60"	70	66	75	42

- A-** Minimum roof hole size (square)
- B-** Wind band O.D.
- C-** Roof curb O.D. (square)
- D-** Wind band height

- OPTIONS:**  
 Prefabricated Curbs  
 Protective coatings  
 Disconnect switch



- Explosion proof motors are Class I, Division I, Group D and Class II Division II, Groups F & G
- Wind band is 18 gauge galvanized steel
- Standard blades are heavy gauge steel
- Galvanized steel butterfly damper with rubber stop and seals
- Size of roof opening to be 6" larger than fan size (B dimensions)
- 1 year limited warranty

BLADE DIA.	1-PHASE	3-PHASE	HP	RPM	CFM - STATIC PRESSURE				DB'S AT 10	WT.
	115/230V-60Hz	230-460V-60Hz			0"	1/8"	1/4"	1/2"		
	MODEL No.	MODEL No.								
24"	UEB24-1/3	UEB24-1/3-3	1/3	780	4900	4222	2807	800	64	300
	UEB24-1/2	UEB24-1/2-3	1/2	980	6219	5716	5661	2600	66	305
	UEB24-3/4	UEB24-3/4-3	3/4	1140	7090	6648	6144	4413	71	310
30"	UEB30-1/2	UEB30-1/2-3	1/2	640	8507	7170	4486	1373	64	350
	UEB30-3/4	UEB30-3/4-3	3/4	770	10235	9192	7657	3833	66	360
	UEB30-1	UEB30-1-3	1	975	10668	9959	8626	5184	70	370
36"	UEB36-1/2	UEB36-1/2-3	1/2	530	10500	8821	5985	2084	66	360
	UEB36-3/4	UEB36-3/4-3	3/4	605	11985	10583	8563	4017	68	370
	UEB36-1	UEB36-1-3	1	665	13174	11932	10299	5729	70	390
	UEB361 1/2	UEB361 1/2-3	1 1/2	720	13660	12012	9579	5000	72	395
42"	UEB42-3/4	UEB42-3/4-3	3/4	435	14040	11530	7633	3311	67	455
	UEB42-1	UEB42-1-3	1	490	15429	13194	10438	4668	69	465
	UEB42-1 1/2	UEB42-1 1/2-3	1 1/2	550	17420	15421	13117	7289	71	470
	N/A	UEB42-2-3	2	725	20653	19128	17503	11319	74	485
	N/A	UEB42-3/4-3	3	830	23645	22296	20984	17290	79	495
48"	UEB48-3/4	UEB48-3/4-3	3/4	370	17339	13700	7389	2244	70	505
	UEB48-1	UEB48-1-3	1	410	19188	16078	10903	4037	71	520
	UEB48-1 1/2	UEB48-1 1/2-3	1 1/2	465	21731	19010	14991	7081	72	535
	N/A	UEB48-2-3	2	520	24274	21943	19080	10125	74	545
	N/A	UEB48-3/4-3	3	680	28150	25683	23615	16930	80	560
54"	UEB54-1	UEB54-1-3	1	410	23130	20588	17500	9600	73	870
	UEB54-1 1/2	UEB54-1 1/2-3	1 1/2	450	25400	22600	19300	10316	75	880
	N/A	UEB54-2-3	2	480	27200	24312	20660	11010	76	890
	N/A	UEB54-3-3	3	550	31213	28722	25830	15420	80	900
	N/A	UEB54-5-3	5	660	37458	35238	32843	26538	82	920
60"	UEB60-1 1/2	UEB60-1 1/2-3	1 1/2	340	28068	23203	15624	8000	78	940
	N/A	UEB60-2-3	2	390	32200	26710	17924	9380	80	960
	N/A	UEB60-3-3	3	450	37183	32356	25324	15013	84	985
	N/A	UEB60-5-3	5	540	44600	41232	35819	23237	86	1000

DIMENSIONS				
SIZE	A	B	C	D
18"	28	24	33	16
24"	34	30	39	19
30"	40	36	45	22
36"	46	42	51	25
42"	52	48	57	27
48"	58	54	63	30
60"	70	66	75	42

- A- Minimum roof hole size (square)
- B- Wind band O.D.
- C- Roof curb O.D. (square)
- D- Wind band height

**OPTIONS:**  
 Prefabricated Curbs  
 Protective coatings  
 Disconnect switch



- Explosion proof motors are Class I, Division I, Group D and Class II Division II, Groups F & G
- Wind band is 18 gauge galvanized steel
- Cast aluminum blades on most models
- Rubber damper stops for quiet operation
- Rubber shim under dampers for better seal
- Some models available with low RPM motor for quieter operation
- Size of roof opening to be 6" larger than fan size (B dimensions)
- 1 year limited warranty

BLADE DIA.	1-PHASE	3-PHASE	HP	RPM	CFM - STATIC PRESSURE				DB'S AT 10	WT.
	115/230V-60Hz	230-460V-60Hz			0"	1/8"	1/4"	1/2"		
	MODEL No.	MODEL No.								
18"	UED18-1/4	UED18-1/4-3	1/4	1140	2570	2263	1673	854	66	170
	UED18-1/3	UED18-1/3-3	1/3	1725	3375	3000	2600	1400	75	175
	UED18-1/2	UED18-1/2-3	1/2	1725	4133	3938	3724	3132	76	180
	UED18-1	UED18-1-3	1	1725	4600	4375	4080	3000	77	190
24"	UED24-1/4	UED24-1/4-3	1/4	1725	5200	4200	2820	N/A	75	240
	UED24-3/4	UED24-3/4-3	3/4	1140	6900	6450	6265	3300	76	260
	UED24-1	UED24-1-3	1	1725	7425	7000	6350	5000	83	280
	N/A	UED24-3-3	3	1725	10500	9800	9500	8700	85	295
30"	UED30-3/4	UED30-3/4-3	3/4	1140	10440	9750	8750	6000	79	310
	N/A	UED30-1-3	1	870	10800	10100	9100	6360	74	330
	UED30-1 1/2	UED30-1 1/2-3	1 1/2	1140	10410	9686	8834	6420	81	325
	UED30-2	UED30-2-3	2	1140	14000	13750	12900	10450	82	335
	N/A	UED30-3-3	3	1725	16000	15350	14700	12900	89	335
36"	UED36-2	UED36-2-3	2	1140	17620	16500	15200	12300	84	430
	N/A	UED36-3-3	3	1140	20500	19500	18500	15850	85	455
	N/A	UED36-5-3	5	1140	22600	21700	20500	19000	87	465
42"	UED42-2	UED42-2-3	2	1140	17964	17277	15326	12351	88	500
	N/A	UED42-5-3	5	1140	28970	27960	26840	24200	89	500
48"	N/A	UED48-3-3	3	1140	28600	26500	24400	20000	92	550
	N/A	UED48-5-3	5	870	33000	31500	29750	25300	86	665
	N/A	UED48-7 1/2-3	7 1/2	1140	37000	35100	32800	28000	94	740
	N/A	UED48-10-3	10	1140	41000	39200	38300	35400	95	875
60"	N/A	UED60-5-3	5	870	45200	41500	37000	26000	90	940
	N/A	UED60-7 1/2-3	7 1/2	870	47000	45500	43600	38700	92	950
	N/A	UED60-10-3	10	690	54000	51900	49000	43200	87	960



DIMENSIONS				
SIZE	A	B	C	D
12"	12"	14"	13 1/8"	12"
15"	15"	17"	16 1/8"	12"
18"	18"	20"	19 1/8"	12"
24"	24"	27"	25 3/4"	12" & 16"
27"	27"	30"	28 3/4"	16"
30"	30"	33"	31 3/4"	16"
34"	34"	37"	35 3/4"	16"
42"	42"	45"	43 9/16"	18"
48"	48"	51"	49 5/8"	24"

- A-** Housing I.D.
- B-** Housing O.D.
- C-** Bolt hole centers
- D-** Housing depth

### OPTIONS:

- Companion flanges
- Access doors
- Motor Covers
- Protective coating
- Belt guards
- Fan guards

- Explosion proof motors are Class I, Div I Group D and Class II, Div II, Groups F & G
- Eliminates fumes and vapors from paint spray booths and other hazardous areas
- Completely enclosed belt and ball bearing housing
- Adjustable motor base for proper belt tension
- Rugged cast aluminum blades, non-sparking
- 14 gauge steel drum including mounting flanges each end
- Fan can be mounted to operate in any position
- 1 year limited warranty

BLADE DIA.	1-PHASE	3-PHASE	HP	RPM	NUMBER OF BLADES	CFM - STATIC PRESSURE				DB'S AT 10	WT.
	115/230V-60Hz	230-460V-60Hz				0"	1/4"	1/2"	3/4"		
	MODEL No.	MODEL No.									
12"	TXB12-1/4	TXB12-1/4-3	1/4	2625	4	1444	1033	380		77	62
	TXB12-1/3	TXB12-1/3-3	1/3	2875	4	1586	1135	415		78	65
	TXB12-1/2	TXB12-1/2-3	1/2	3450	4	1875	1400	1250	1100	83	65
	TXB12-3/4	TXB12-3/4-3	3/4	3450	6	2044	1920	1650	1500	83	67
15"	TXB15-1/4	TXB15-1/4-3	1/4	2000	6	2600	1700			77	67
	TXB15-1/3	TXB15-1/3-3	1/3	2200	6	2950	2100	1000		78	69
	TXB15-1/2	TXB15-1/2-3	1/2	1890	6	3350	2650	1500		76	75
	TXB15-3/4	TXB15-3/4-3	3/4	2200	6	3900	3400	2700	1150	78	85
18"	TXB18-1/4	TXB18-1/4-3	1/4	1600	6	3050	2000			76	80
	TXB18-1/3	TXB18-1/3-3	1/3	1725	6	3375	2600	1400		77	85
	TXB18-1/2	TXB18-1/2-3	1/2	1890	6	3850	3100	2000		78	95
	TXB18-1	TXB18-1-3	1	1725	6	4600	4080	3000	2100	77	105
	TXB18-1 1/2	TXB18-1 1/2-3	1 1/2	1990	6	5350	4830	3950	3000	80	105
24"	TXB24-1/2	TXB24-1/2-3	1/2	1298	6	5643	4826	3500		78	120
	TXB24-3/4	TXB24-3/4-3	3/4	1600	6	6906	5900	4650	2750	80	130
	TXB24-1	TXB24-1-3	1	1725	6	7425	6350	5000	3300	84	140
	TXB24-1 1/2	TXB24-1 1/2-3	1 1/2	1540	6	8200	7650	6850	5500	81	145
	N/A	TXB24-2-3	2	1600	6	9760	8830	8090	7000	82	170
	N/A	TXB24-3-3	3	1725	6	10500	9500	8700	7800	86	190
27"	TXB27-3/4	TXB27-3/4	3/4	1250	6	8330	7550	6500	4650	78	150
	TXB27-1	TXB27-1	1	1400	6	9400	8480	7300	5200	82	155
	TXB27-1 1/2	TXB27-1 1/2	1 1/2	1600	6	10700	9700	8375	6000	84	170
	N/A	TXB27-2-3	2	1350	6	11500	10700	9300	8000	81	210
30"	TXB30-1/2	TXB30-1/2	1/2	1140	4	8900	6660	2300		79	140
	TXB30-1	TXB30-1	1	1298	6	9867	7980	4120		82	150
	TXB30-1 1/2	TXB30-1 1/2	1 1/2	1035	6	11100	9700	7500	3500	78	165
	N/A	TXB30-2-3	2	1176	6	12100	11000	9322	6700	81	215
	N/A	TXB30-3-3	3	1350	6	13480	12498	11465	10380	84	215
	N/A	TXB30-5-3	5	1650	6	16440	15242	13982	12659	88	230
34"	TXB34-1 1/2	TXB34-1 1/2	1 1/2	1170	6	13695	11100	6000	1015	82	190
	N/A	TXB34-2-3	2	1027	6	14657	12590	10000	8000	81	240
	N/A	TXB34-3-3	3	1175	6	17580	15896	14095	12000	85	260
	N/A	TXB34-5-3	5	1416	6	20500	19000	17500	16000	88	305
42"	TXB42-1 1/2	TXB42-1 1/2	1 1/2	750	4	18960	14662	7200		78	250
	N/A	TXB42-2-3	2	820	4	20700	17002	11400	4000	80	260
	N/A	TXB42-3-3	3	890	4	23700	20200	16970	9950	82	260
	N/A	TXB42-5-3	5	850	6	26900	24403	22250	18400	82	270
48"	N/A	TXB48-5-3	5	800	6	33000	29000	25600	20000	85	375
	N/A	TXB48-7 1/2-3	7 1/2	900	6	37000	34500	31000	27000	87	520



- Explosion proof motors are Class I, Div I Group D and Class II, Div II, Groups F & G
- Fans can be mounted in any position
- Rugged cast aluminum blade, non sparking
- 14 gauge steel drum including mounting flanges
- 1 year limited warranty



DIMENSIONS				
SIZE	A	B	C	D
12"	12"	14"	13 1/8"	14"
18"	18"	20"	19 1/8"	14"
24"	24"	27"	25 3/4"	18"
27"	27"	30"	28 3/4"	18"
30"	30"	33"	31 3/4"	18"
34"	34"	37"	35 3/4"	18"
42"	42"	45"	43 9/16"	18"
48"	48"	51"	49 5/8"	18"

- A-** Housing I.D.
- B-** Housing O.D.
- C-** Bolt hole centers
- D-** Housing depth

### OPTIONS:

- Companion flanges
- Protective coating
- Access doors
- Fan guards

BLADE DIA.	1-PHASE		3-PHASE		HP	RPM	NUMBER OF BLADES	CFM - STATIC PRESSURE				DB'S AT 10	WT.
	115/230V-60Hz	230-460V-60Hz						0"	1/4"	1/2"	3/4"		
	MODEL No.	MODEL No.											
12"	TXD12-1/4	TXD12-1/4-3	1/4	1725	4	1180	520			77	40		
	TXD12-1/2	TXD12-1/2-3	1/2	3450	4	1875	1400	1250	1100	82	45		
	TXD12-3/4	TXD12-3/4-3	3/4	3450	6	2044	1920	1650	1500	83	45		
18"	TXD18-1/4	TXD18-1/4-3	1/4	1725	4	3450	2500			74	55		
	TXD18-1/3	TXD18-1/3-3	1/3	1725	6	3375	2600	1400		75	65		
	TXD18-1/2	TXD18-1/2-3	1/2	1725	6	4150	3150	1700		77	65		
	TXD18-1	TXD18-1-3	1	1725	6	4600	4080	3000	2100	80	70		
24"	TXD24-1/4	TXD24-1/4-3	1/4	1725	2	5200	2820			80	95		
	TXD24-1/3	TXD24-1/3-3	1/3	1140	6	4975	4250	2850		74	110		
	TXD24-1/2	TXD24-1/2-3	1/2	1725	4	6510	5200	3100	1800	80	115		
	TXD24-3/4	TXD24-3/4-3	3/4	1140	6	6900	6265	3300		74	125		
	TXD24-1	TXD24-1-3	1	1725	6	7425	6350	5000	3300	82	120		
	TXD24-2	TXD24-2-3	2	1725	6	9525	8810	7980	6960	84	120		
	<b>N/A</b>	TXD24-3-3	3	1725	6	10500	9500	8700	7800	86	130		
27"	TXD27-1/2	TXD27-1/2-3	1/2	1725	4	7550	6000	4000	2000	86	125		
	TXD27-1	TXD27-1-3	1	1725	4	9600	8400	7050	4800	86	155		
	TXD27-2	TXD27-2-3	2	1725	6	11500	10700	9300	8000	86	165		
30"	TXD30-1/2	TXD30-1/2-3	1/2	1725	4	8980	6300	4350	2300	86	130		
	TXD30-3/4	TXD30-3/4-3	3/4	1140	6	10440	8750	6000		80	150		
	TXD30-2	TXD30-2-3	2	1725	6	12000	10450	8700	6000	89	155		
	<b>N/A</b>	TXD30-3-3	3	1725	6	16000	14700	12900	10200	89	175		
34"	TXD34-1 1/2	TXD34-1 1/2-3	1 1/2	1725	4	13350	10000	7300		88	175		
	TXD34-2	TXD34-2-3	2	1725	4	14850	12100	8800	4000	89	200		
	<b>N/A</b>	TXD34-3-3	3	1140	3	19300	17230	14800	11614	86	250		
	<b>N/A</b>	TXD34-5-3	5	1725	6	21000	18900	17500	14850	91	220		
36"	TXD36-2	TXD36-2-3	2	1140	6	17620	15200	12300	8500	84	210		
	<b>N/A</b>	TXD36-3-3	3	1725	4	18500	15700	13900	11500	89	230		
42"	TXD42-2	TXD42-2-3	2	1140	4	17964	15326	12351	7600	87	260		
	<b>N/A</b>	TXD42-3-3	3	1140	4	24500	23000	19650	14000	87	260		
	<b>N/A</b>	TXD42-5-3	5	1140	4	28970	26840	24200	19500	87	300		

UPC CODE	MODEL NUMBER	BLADE SIZE	MOTOR TYPE	MOTOR HP	CFM	RPM	AMPS	SHIP WT
686334	SB-36-B-HL	36"	115/230 V 1PH EXP	1/2	14,500	500	7.8/3.9	135
851015	SB-42-B-HL	42"		3/4	18,200	430	10.8/5.4	150
851022	SB-48-B-HL	48"		1	22,700	390	13.2/6.6	173

- Explosion proof motors and external junction boxes are rated Class I, Div I Group D and Class II, Groups E, F, & G
- 1-speed / Powder coated 20 gauge steel housing with front and rear roll formed embossments for added strength and rigidity
- Aluminum blades
- Meets OSHA standards
- 1 year limited warranty



**TO SEE OUR COMPLETE LINE OF BUILT-IN ELECTRIC HEATERS, GAS INFRARED HEATERS, VENTILATION, & LIGHTING PRODUCTS**

**VISIT OUR WEB SITE [www.tpicorp.com](http://www.tpicorp.com)**

**-or-**

**ASK YOUR TPI REPRESENTATIVE FOR A COPY OF THE COMPLETE TPI CATALOG.**



**Wall Heaters**



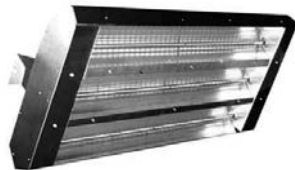
**Unit Heaters**



**Electric Salamanders**



**Pedestal Fans**



**Electric Infrared**



**Portable Utility Lights**



**Gas Infrared**



**Power Misting Fans**

**RATING DEFINITIONS:**

- CLASS I:** Equipment does not have surface operating temperature in excess of the ignition temperature of the specific gas or vapor .
- GROUP C:** Atmospheres such as but not limited to acetaldehyde, allyl alcohol, hydrogen sulfide, ethylene, carbon monoxide, or other gasses or vapors of equivalent hazard.
- GROUP D:** Atmospheres such as but not limited to acetone, alcohol, gasoline, lacquer solvent vapors, natural gas, propane, or other gases or vapors of equivalent hazard.
- CLASS II:** Equipment does not have surface temperature greater than the ignition temperature of the specified dust.
- GROUP E:** Atmosphere containing combustible metal dust regardless of resistivity, or other combustible dust of similar hazard characteristics having resistivity of less than 10<sup>5</sup> OHM-Centimeter or greater.
- GROUP F:** Atmosphere containing carbon black, charcoal, coal, or coke dust.
- GROUP G:** Atmospheres containing combustible dust having resistivity of 10<sup>5</sup> OHM-Centimeter or greater
- DIVISION I:** A location in which ignitable concentrations of flammable material exist under normal operating conditions.
- DIVISION II:** Locations in which flammable materials will normally be confined within closed containers and escape only in the case of accidental rupture, breakdown or during maintenance operations. Any equipment approved for Division I is automatically also approved for Division II.

**Group A -  
Gases include:**

	Ignition Temperature	
	° C	° F
Acetylene	305	581

**Group B -  
Gases include:**

	Ignition Temperature	
	° C	° F
Butadiene	420	788
Ethylene oxide	429	804
Hydrogen & mfg Gases > 30% hydrogen (by volume)	400	752
Propylene oxide	449	840

**Group C -  
Gases include:**

	Ignition Temperature	
	° C	° F
Acetaldehyde	175	347
Cyclopropane	500	932
Diethyl ether	160	320
Ethylene	490	914
Dimethyl hydrazine	249	480

**Class I - Gases**

Combustible and flammable gases and vapors in Class I are arranged into four groups A, B, C, D. Group A gases create the most explosive pressure and therefore are the most difficult to contain. The groups thereafter are in gradual succession of volatility.

**Class II - Dust**

Combustible dusts are divided into Groups E, F, and G. Classification involves investigation & testing of the assembled enclosure including clamp joints, clearances, and shaft openings. The blanketing effect of layers of dust, electrical conductivity, and the ignition temp. of the dust are also evaluated.

**Group D - is the largest group, which includes many common petroleum products**

	Ignition Temperature	
	° C	° F
Acetone	465	869
Alcohol's		
1-butanol (butyl)	365	689
Amyl alcohol	300	572
Butyl alcohol (ter)	480	896
Ethanol (ethyl)	356	689
Isobutyl alcohol	427	800
Isopropyl alcohol	399	750
Methanol (methyl)	385	725
Propyl Alcohol	440	824
Ammonia	651	1204
Benzene	560	1040
Butane	405	761
Ethane	515	959
Ethyl acetate	427	800
Ethylene dichloride	413	775
Gasoline		
(50-60 octane)	280	536
(100 octane)	456	853
Heptanes	280	536
Hexanes	225	437
Isobutyl acetate	421	790
Isoprene	220	428
Methane (Nat. gas)	482/632	900/1170
Methyl ethyl ketone	516	960
Petroleum naphtha	288	550
Octanes	220	428
Pentanes	260	500
Propane	450	842
Vinyl acetate	427	800
Vinyl chloride	472	882
Xylenes	530	986

## Limited Warranty

Products Manufactured by TPI Corporation are warranted to the original consumer to be free from defects in material and workmanship for twelve (12) months from the original date of purchase except as noted in the Industrial Catalog. The TPI warranty does not cover products modified outside our factory, damage or failure caused by acts of God, abuse, misuse, use on other than rated voltage, abnormal usage, faulty installation, failure to provide suggested maintenance procedures by an authorized TPI Corporation service center.

THERE ARE NO OBLIGATIONS OR LIABILITIES ON THE PART OF TPI CORPORATION FOR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE PRODUCT OR OTHER INDIRECT DAMAGES WITH RESPECT TO LOSS OF PROPERTY, REVENUES, OR PROFIT, OR COSTS OF REMOVAL, INSTALLATION OR REINSTALLATION.

ALL IMPLIED WARRANTIES WITH RESPECT TO TPI PRODUCTS, INCLUDING IMPLIED WARRANTIES FOR MERCHANTABILITY AND IMPLIED WARRANTIES FOR FITNESS, ARE LIMITED IN DURATION TO TWELVE (12) MONTHS FROM ORIGINAL DATE OF PURCHASE, EXCEPT THOSE PRODUCTS OR PARTS OF PRODUCTS WHICH ARE WARRANTED FOR LONGER PERIODS. ON SUCH PRODUCTS OR PARTS OF PRODUCTS ALL IMPLIED WARRANTIES FOR MERCHANTABILITY AND FITNESS ARE LIMITED TO THE DURATION OF THE EXTENDED WARRANTY PERIOD THEREON.

Some states do not allow the exclusion or limitation of incidental or consequential damages and some states do not allow limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

During the warranty period, TPI Corporation will, as its sole option, repair or replace any defective parts or products returned, freight prepaid, to the TPI Corporation factory or such other location as TPI Corporation may designate. Returned products must be packaged carefully and TPI Corporation shall not be responsible for damage in transit. When returning parts, the owner must provide the model number of the product and nature of difficulty being experienced. This warranty does not obligate TPI Corporation to bear the cost of labor in replacing any assembly, unit or component part thereof, nor does the company assume any liability for secondary charges, expenses for installation or removal, freight or damages. There will be charges rendered for product repairs made after our warranty period has expired. Proof of purchase, including date, must accompany request of in warranty service. In any event, TPI Corporation's maximum liability shall not in any case exceed the purchase price for the product claimed to be defective. This warranty gives to you specific legal rights and you may have other rights which may vary from state to state. For the name of your nearest authorized TPI Corporation service center, please write to TPI Corporation, P.O. Box 4973, Johnson City, Tennessee, 37602.

Requests for returns of non-defective standard stock units may incur testing and repackaging charges if units are not in like new condition. Requests for returns of special build models will incur additional disassembly and scrap charges. Contact factory for details.

*TPI Corporation Product Line*

