

HAZARDOUS LOCATION / WASHDOWN HEATING & VENTILATION PRODUCT GUIDE



 **TPI**
CORPORATION
America's Comfort Conditioning Company

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HAZARDOUS LOCATION AND WASHDOWN HEATING PRODUCTS

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HLA Series Hazardous Location Fan Forced Unit Heater

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FAN-FORCED SUSPENDED UNIT HEATERS 3-25 KW FOR T-3B 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



Scan with RedLaser

- 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 used as a heat transfer fluid in the heater core, providing -45° C. (-49° F) 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 limit provides high temperature regulation and is rated for 6,000 cycles of service.
- Stainless steel and aluminum pressure relief valve for overpressure.
- A back-up contactor is included for additional protection.
- 14 gauge steel cabinet powder coated epoxy paint finish contains heater core, motor, and fan assembly.
- Narrow gap safety fan guard shields all moving parts.
- Adjustable louvers allow directional control of air.
- Copper conductor wires enclosed in rigid metal conduits carry all electrical power.
- Box lugs furnished for field connections within approved enclosure.
- Made in U.S.A.

Product Specifications

Heat Exchanger and Elements:

Heavy walled, painted carbon steel with aluminum fins liquid heat exchanger, liquid filled with three-immersion type copper sheathed elements. The elements shall have the highest quality nickel-chromium resistance wire encased in a magnesium oxide dielectric and be hermetically sealed into the heat exchanger core. The heat transfer fluid is Ethylene-glycol solution for operation to -49 degrees F (-45 degrees C). Stainless steel and aluminum pressure relief valve for overpressure.

Thermal Cutout High Limit Protection and Optional Pilot Light:

The capillary type manual reset thermal cutout shall be rated for 6000 cycles of service and mounted in the liquid filled heat exchanger. An optional pilot light to indicate manual reset tripped, if safe operating temperatures are exceeded, is located on control enclosure.

Motor:

The motor shall be a permanent split capacitor type, permanently lubricated, ball bearing type. The motor shall be rated for hazardous location and operate at rated voltage of heater, 60 Hz, 1725 RPM.

Control Enclosure:

All controls shall be factory installed and wired in a hazardous location enclosure. Contactors and back-up contactors are heavy duty type and break all ungrounded conductors and be rated for 100,000 cycles at full load. Standard 24-Volt control circuit shall be supplied by internal class II transformer. An optional factory wired integral thermostat or standard terminal block for field wiring to optional remote wall thermostat are wired in control panel. No fan delay relay.

Disconnect Switch:

Factory mounted and wired hazardous location disconnect switch is available as optional accessory.

Cabinet With Adjustable Louvers:

The Cabinet shall be 14 gauge, cold rolled steel with powder coated epoxy finish. Plated fan guards with less than 1/4 inch spacing to cover motor and fan shall conform to OSHA Requirements.

Note:

Before selecting a hazardous location electric heater refer to Article 500 or other applicable standard referenced in the National Electric Code.



Liquid-to-air heat exchanger



Optional built-in thermostat



Hazardous Location Rated Motor

HLA Series Hazardous Location Fan Forced Unit Heater

Rating Definitions

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CLASS I: Equipment does not have surface operating temperature in excess of the ignition temperature of the specific gas or vapor.

Application Examples:

- Offshore and land based drilling rigs, petroleum exploration and testing facilities.
- Petroleum refineries, gasoline storage and dispensing areas.
- Industrial firms that use flammable liquids in dip tanks for parts cleaning or other operations.
- Petrochemical companies that manufacture chemicals from gas or oil.
- Dry cleaning facilities where vapors from cleaning fluids may be present.
- Aircraft hangers and fuel servicing areas.
- Utility gas plants and operations involving storage and handling of liquefied petroleum or natural gas.

GROUP C: Atmospheres such as but not limited to acetaldehyde, allyl alcohol, hydrogen sulfide, ethylene, carbon monoxide, or other gases 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.

Application Examples:

- Coal preparation plants and other carbon handling or processing areas.
- Grain elevators, flour and feed mills.
- Plants which manufacture, use or store Magnesium or Aluminum powders.
- Plants that have chemical or metallurgical processes.
- Producers of starch products or candy.
- Spice grinding plants, sugar plants and cocoa plants.

GROUP E: Atmosphere containing combustible metal dust regardless of resistivity, or other combustible dust of similar hazard characteristics having resistivity of less than 10^5 OHM - Centimeter.

GROUP F: Atmosphere containing carbon black, charcoal, coal or coke dust.

GROUP G: Atmospheres containing combustible dust having resistivity of 10^5 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.

Standard Hazardous Location Models

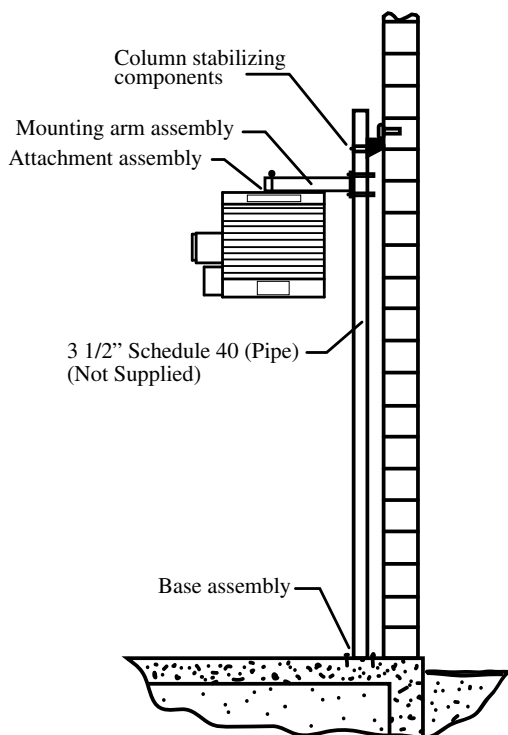
MFG CATALOG NUMBER	MFG MODEL NUMBER	KW	BTUs	VOLTS	PH	AMPS	Control Voltage	Temp Rise °F	Air Throw	CFM	Recom'd Mounting Ht.	WT. (LBS)
07343502	HLA 12-208160-3.0-24	3	10250	208	1	16.3	24	16.5			8'	167
07340002	HLA 12-208360-3.0-24			208	3	9.8						
07340102	HLA 12-240160-3.0-24			240	1	14.8						
07340202	HLA 12-240360-3.0-24			240	3	8.6						
07340302	HLA 12-480360-3.0-24			480	3	4.3						
07343602	HLA 12-208160-5.0-24	5	17100	208	1	26		27.6	24'	580	8'	
07340502	HLA 12-208360-5.0-24			208	3	15.4						
07340602	HLA 12-240160-5.0-24			240	1	23.1						
07340702	HLA 12-240360-5.0-24			240	3	13.4						
07340802	HLA 12-480360-5.0-24			480	3	6.7						
07343702	HLA 12-208160-7.5-24	7.5	25600	208	1	38		41.4			8'	
07341002	HLA 12-208360-7.5-24			208	3	22.3						
07341102	HLA 12-240160-7.5-24			240	1	33.6						
07341202	HLA 12-240360-7.5-24			240	3	19.4						
07341302	HLA 12-480360-7.5-24			480	3	9.7						
07341502	HLA 16-208360-10.0-24	10	34150	208	3	29.3		21.7	40'	1500	10'	193
07341602	HLA 16-240160-10.0-24			240	1	44						
07341702	HLA 16-240360-10.0-24			240	3	25.5						
07341802	HLA 16-480360-10.0-24			480	3	12.7						
07342002	HLA 20-208360-15.0-24	15	51200	208	3	43.5		19.2	43'	2450	13'	
07342102	HLA 20-240360-15.0-24			240	3	38.1						
07342202	HLA 20-480360-15.0-24			480	3	19						
07342302	HLA 20-600360-15.0-24			600	3	15.2						
07342402	HLA 20-480360-20.0-24			480	3	25.1						
07342502	HLA 20-600360-20.0-24	20	68300	600	3	20		26.2	43'	2450	13'	225
07342602	HLA 20-480360-25.0-24	25	85400	480	3	31.1		32.8				
07342702	HLA 20-600360-25.0-24			600	3	24.9						

Note: Products listed in this section are custom built and subject to 100% cancellation/restock charges.

HLA Series Hazardous Location Fan Forced Unit Heater

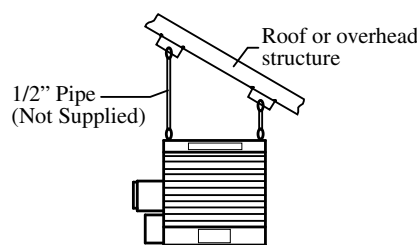
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Mounting Bracket Kits



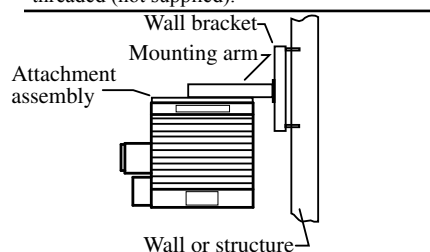
HLPMPipe Mounting Kit

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



HLHMHanging Mounting Kit

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



HLWMWall Mounting Kit

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

MFG CATALOG NUMBER	MFG MODEL NUMBER	USE WITH HEATERS	WT. (LBS)
07342802	HLPMP37	3.0 kW - 7.5 kW	37
07342902	HLPMP10	10.0 kW	38
07343002	HLPMP1525	15.0 kW - 25.0 kW	40
07343102	HLHM	ALL	5
07343202	HLWM37	3.0 kW - 7.5 kW	27
07343302	HLWM10	10.0 kW	28
07343402	HLWM1525	15.0 kW - 25.0 kW	29

EPET Series and HLT Series Hazardous Location Thermostats For Single Phase



HLT Series



Features

- SPDT & DPDT Models
- Heat or cool compatible
- Celsius and Fahrenheit temperature scale
- Bi-Metal or capillary sensor
- Snap action switch
- Casting tapped top and bottom for 3/4" conduit
- 1/2" thick cast aluminum housing
- All EPET/T1/T2 optional thermostats manufactured with anti-static plastic
- Dimension 5.75" x 6.375" x 5.57"
- Made in U.S.A.

Motor Rating	Rating	Rated*
(full load) 1 1/2 HP @ 250V	22A @ 125-277VAC; 125 VA @ 24VAC	Class I Group C & D, Class II Group E, F, G
*Thermostat is not rated for use in Group B environments.		

MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	LOAD RATINGS	RANGE
05380702	EPETD8D	DPDT - Bi-Metal	22A @120-277VAC	50-90°F
05381002	EPETD8S	SPDT - Bi-Metal	22A @120-277VAC	50-90°F
05280702	EPETP8D	DPDT - Bi-Metal	22A @120-480VAC	50-90°F
05280602	EPETP8S	SPDT - Bi-Metal	22A @120-480VAC	50-90°F
05231502	HLT-1	SPDT - Capillary	22A @120-277VAC	40-110°F
05231602	HLT-2	DPDT - Capillary	22A @120-277VAC	40-110°F
Master ctn: 4 pcs, 24 lbs (varies slightly by model), 16" x 14.5" x 6"				
EPET Series incorporate plastic knob & Bi-Metal Sensor housing.				
HLT Series incorporates screwdriver temperature adjustment slot and all metal housing. External bulb and capillary sensor.				

HLA Series Hazardous Location Fan Forced Unit Heater

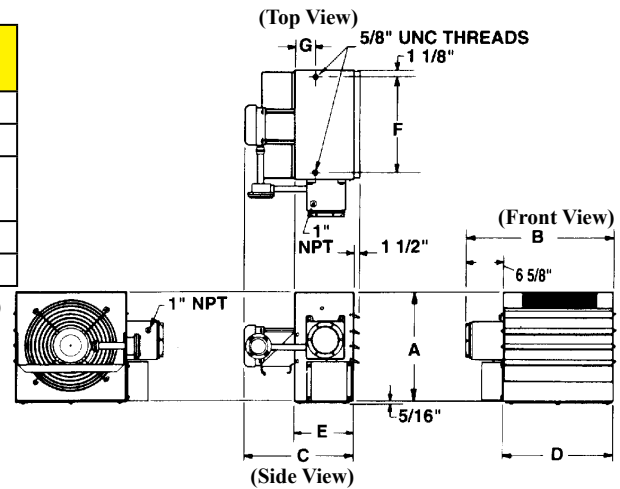
Factory Installed Accessories & Physical Dimensions

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SUFFIX	DESCRIPTION
T	In-Built single pole thermostat 40° - 100° F
120	Control transformer w/ primary fusing (Delete 24 suffix - add 120)
208	208/240V Control available on 208/240V units (Delete 24 suffix and add 208 OR 240)
240	
D	Disconnect Switch
P	Pilot Light

MFG MODEL	A	B	C		D	E	F	G
			3 ph.	1 ph.				
HLA 12	17 ¾	22 ¾	19 ¾	20 ¾	16 ¼	10 ½	14	3
HLA 16	20 ¾	26 ¾	20 ¾	21 ¾	20 ¼	11 ½	18	4
HLA 20	24 ¾	30 ¾	22 ½	N/A	24 ¼	12 ½	22	4 ½

(Rear View)



PHLA Series Portable Hazardous Location Fan Forced Unit Heater



- 3.0 through 25 KW rating
- 208, 240, 480, 600 Volt available in selected capacities
- Cart has anti-static wheels to reduce the risk of static discharge
- Wheeled cart allows for easy maneuverability
- Cart has integrated fork-lift channels to provide ease of lifting on to ramps or trucks
- Excellent for providing seasonal heating in hazardous environments
- All units have disconnect switch, pilot light, and thermostat - standard
- 24 Volt control, transformer, and contactor in NEMA 7 enclosure
- Durable epoxy coating on heater housing
- Hazardous location unit mounted male / female plug
- Adjustable louvers; manual reset
- Made in U.S.A.

Standard Portable Hazardous Location Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	KW	BTUs	VOLTS	PH	AMPS	TEMP RISE F	AIR THROW	CFM	WT. (LBS)
07393402	PHLA12-208160-3.0-24-TDP	3	10,250	208	1	16.3	16.5	24'	580	260
07393302	PHLA12-208360-3.0-24-TDP			208	3	9.8				
07393202	PHLA12-240160-3.0-24-TDP			240	1	14.8				
07393102	PHLA12-240360-3.0-24-TDP			240	3	8.6				
07393002	PHLA12-480360-3.0-24-TDP			480	3	4.3				
07394302	PHLA12-600360-3.0-24-TDP			600	3	3.5				
07392902	PHLA12-208160-5.0-24-TDP	5	17,100	208	1	26	27.6	24'	580	
07392802	PHLA12-208360-5.0-24-TDP			208	3	15.4				
07392702	PHLA12-240160-5.0-24-TDP			240	1	23.1				
07392602	PHLA12-240360-5.0-24-TDP			240	3	13.4				
07392502	PHLA12-480360-5.0-24-TDP			480	3	6.7				
07394202	PHLA12-600360-5.0-24-TDP			600	3	5.4				
07392402	PHLA12-208160-7.5-24-TDP	7.5	25,600	208	1	38	41.4	24'	580	
07392302	PHLA12-208360-7.5-24-TDP			208	3	22.3				
07392202	PHLA12-240160-7.5-24-TDP			240	1	33.6				
07392102	PHLA12-240360-7.5-24-TDP			240	3	19.4				
07392002	PHLA12-480360-7.5-24-TDP			480	3	9.7				
07394102	PHLA12-600360-7.5-24-TDP			600	3	7.8				
07391902	PHLA16-208360-10.0-24-TDP	10	34,150	208	3	29.3	21.7	40'	1500	
07391802	PHLA16-240160-10.0-24-TDP			240	1	44				
07391702	PHLA16-240360-10.0-24-TDP			240	3	25.5				
07391602	PHLA16-480360-10.0-24-TDP			480	3	12.7				
07394002	PHLA16-600360-10.0-24-TDP			600	3	10.2				
07391502	PHLA20-208360-15.0-24-TDP			208	3	43.5				
07391402	PHLA20-240360-15.0-24-TDP	15	51,200	240	3	38.1	19.2	43'	2450	
07391302	PHLA20-480360-15.0-24-TDP			480	3	19				
07393902	PHLA20-600360-15.0-24-TDP			600	3	15.2				
07391202	PHLA20-480360-20.0-24-TDP			480	3	25.1				
07393802	PHLA20-600360-20.0-24-TDP	20	68,300	600	3	20	26.2	43'	2450	
07391102	PHLA20-480360-25.0-24-TDP	25	85,400	480	3	31.1	32.8	43'	2450	
07393702	PHLA20-600360-25.0-24-TDP			600	3	24.9				

FEP Series Single Phase Hazardous Location Wall Convector

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Standard Unit



Unit with in-built EPET line voltage thermostat (Suffix T1 or T2)

- Cabinet size 18" high, 9" wide.
- Bottom In - Top Out air flow.
- Wall mounting bracket supplied.
- Units can not be operated in room ambients exceeding 104°F (40°C).
- Heavy duty 16 gauge steel with gray epoxy textured powder coated finish.
- 9" minimum clearance from bottom of heater to floor required.
- Stainless steel cartridge element inserted into Aluminum finned Copper sheath.
- Standard unit (without EPET thermostat or control section) is NEMA 4 rated.
- Made in U.S.A.

T-2A SERIES SINGLE PHASE							
Class 1, Group B, C & D Division 1 & 2 280° C / 536° F							
MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	BTUs	VOLTS	AMPS	CABINET LENGTH	WT. (LBS.)
04451402	FEP-1812-1RA	1800	6143	120	15.0	34"	50
04451502	FEP-1820-1RA			208	8.7		
04451602	FEP-1824-1RA			240	7.5		
04451702	FEP-1827-1RA			277	6.5		
04451802	FEP-1848-1RA			480	3.8		
04451902	FEP-3620-1RA	3600	12286	208	17.3	34"	54
04452002	FEP-3624-1RA			240	15.0		
04452102	FEP-3627-1RA			277	13.0		
04452202	FEP-3648-1RA			480	7.5		
04452302	FEP-3657-1RA			600	6.0		
04452402	FEP-3820-1RA	3800	12969	208	18.3	58"	80
04452502	FEP-3824-1RA			240	15.8		
04452602	FEP-3827-1RA			277	13.7		
04452702	FEP-3848-1RA			480	7.9		
04452802*	FEP-7620-1RA	7600	25938	208	36.5	58"	85
04452902*	FEP-7624-1RA			240	31.7		
04453002*	FEP-7627-1RA			277	27.4		
04453102	FEP-7648-1RA			480	15.8		
04453202	FEP-7657-1RA			600	12.7		

*Items may not be used with 22 Amp line voltage thermostat

T-3A SERIES SINGLE PHASE							
Class 1, Group B, C & D Division 1 & 2 180° C / 356° F							
04453302	FEP-0812-1RA	800	2730	120	6.7	34"	50
04453402	FEP-0820-1RA			208	3.8		
04453502	FEP-0824-1RA			240	3.3		
04453602	FEP-0827-1RA			277	2.9		
04453702	FEP-0848-1RA			480	1.7		
04453802	FEP-1612-1RA	1600	5460	120	13.3	34"	54
04453902	FEP-1620-1RA			208	7.7		
04454002	FEP-1624-1RA			240	6.7		
04454102	FEP-1627-1RA			277	5.8		
04454202	FEP-1648-1RA			480	3.3		
04454302	FEP-1657-1RA	1700	5802	600	2.7	58"	80
04454402	FEP-1712-1RA			120	14.2		
04454502	FEP-1720-1RA			208	8.2		
04454602	FEP-1724-1RA			240	7.1		
04454702	FEP-1727-1RA			277	6.1		
04454802	FEP-1748-1RA	3400	11604	480	3.5	58"	85
04454902	FEP-3420-1RA			208	16.3		
04455002	FEP-3424-1RA			240	14.2		
04455102	FEP-3427-1RA			277	12.3		
04455202	FEP-3448-1RA			480	7.1		
04455302	FEP-3457-1RA			600	5.7		

Factory Installed Control Options

SUFFIX*	DESCRIPTION
T1	EPETD8S single pole thermostat factory mounted to 120V - 277V units. (50°F - 90°F)
T2	EPETD8D double pole thermostat factory mounted to 120V - 277V units. (50°F - 90°F)

*Remove - RA suffix and add new suffix. Suffix "T" is 22 Amps maximum.

For 120V-480V thermostat, see page 6.

Note: All EPET / T1 / T2 optional thermostats manufactured with anti-static plastic

FEP Series Three Phase Hazardous Location Wall Convectors

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- Cabinet size 18" high, 9" wide.
- Bottom In - Top Out air flow.
- Wall mounting bracket supplied.
- Units can not be operated in room ambients exceeding 104°F (40°C).
- Heavy duty 16 gauge steel with gray epoxy textured powder coated finish.
- 9" minimum clearance from bottom of heater to floor required.
- Stainless steel cartridge element inserted into Aluminum finned Copper sheath.
- Standard unit (without EPET thermostat or control section) is NEMA 4 rated.
- Made in U.S.A.

T-2A SERIES THREE PHASE Class 1, Group B, C, & D Divisions 1 & 2 280° C / 536° F							
MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	BTUs	VOLTS	AMPS	CABINET LENGTH	WT. (LBS.)
04830502	FEP-1820-3RA	1800	6143	208	5.0	34"	50
04830602	FEP-1824-3RA			240	4.3		
04862202	FEP-1848-3RA			480	2.2		
04830702	FEP-3620-3RA	3600	12286	208	10.0	34"	54
04830802	FEP-3624-3RA			240	8.7		
04862302	FEP-3648-3RA			480	4.3		
04830902	FEP-3820-3RA	3800	12969	208	10.5	58"	80
04831002	FEP-3824-3RA			240	9.1		
04862402	FEP-3848-3RA			480	4.6		
04831102	FEP-7620-3RA	7600	25938	208	21.1	58"	85
04831202	FEP-7624-3RA			240	18.3		
04862502	FEP-7648-3RA			480	9.2		



Standard Unit



Unit with optional control section containing disconnect, pilot light, and thermostat (Suffix C1-TDP)

Note: Controls mounted on the left side only.

T-3A SERIES THREE PHASE Class 1, Group B, C & D Division 1 & 2 180° C / 356° F							
MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	BTUs	VOLTS	AMPS	CABINET LENGTH	WT. (LBS.)
04831302	FEP-0820-3RA	800	2730	208	2.2	34"	50
04831402	FEP-0824-3RA			240	1.9		
04862602	FEP-0848-3RA			480	0.9		
04831502	FEP-1620-3RA	1600	5460	208	4.4	34"	54
04831602	FEP-1624-3RA			240	3.8		
04862702	FEP-1648-3RA			480	1.9		
04831702	FEP-1720-3RA	1700	5802	208	4.7	58"	80
04831802	FEP-1724-3RA			240	4.1		
04862802	FEP-1748-3RA			480	2.0		
04831902	FEP-3420-3RA	3400	11604	208	9.4	58"	85
04832002	FEP-3424-3RA			240	8.2		
04862902	FEP-3448-3RA			480	4.1		

*T1 and T2 option not available on 3 phase models

Factory Installed Control Options

SUFFIX**	DESCRIPTION
C1-TD	Control section with transformer, 24V contactor, SP thermostat (40°F - 100°F) and disconnect switch (all units)
C1-TDP	Control section with transformer, 24V contactor, SP thermostat (40°F - 100°F), disconnect switch & pilot light (all units)

Note: C1-TD and C1-TDP are only options available for 3 phase units.

**Remove - RA suffix and add new suffix (Not NEMA washdown rated or rated for Group B atmospheres)

Remote Mounted Hazardous Location Thermostats For Single Phase Models Only



HLT Series



MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	LOAD RATINGS	RANGE
05380702	EPETD8D	DPDT - Bi-Metal	22A @120-277VAC	50-90°F
05381002	EPETD8S	SPDT - Bi-Metal	22A @120-277VAC	50-90°F
05280702	EPETP8D	DPDT - Bi-Metal	22A @120-480VAC	50-90°F
05280602	EPETP8S	SPDT - Bi-Metal	22A @120-480VAC	50-90°F
05231502	HLT-1	SPDT - Capillary	22A @120-277VAC	40-110°F
05231602	HLT-2	DPDT - Capillary	22A @120-277VAC	40-110°F

Master ctn: 4 pcs, 24 lbs (varies slightly by model), 16" x 14.5" x 6"

EPET Series incorporates plastic knob & Bi-Metal Sensor housing.

HLT Series incorporates screwdriver temperature adjustment slot and all metal housing. External bulb and capillary sensor.

Note: All EPET / T1 / T2 optional thermostats manufactured with anti-static plastic

EPET Series Parameters

Dimensions	Finish	Type
H: 5 5/8", W: 6 3/8", D: 4 1/2"	Silver-Gray	Single or Double Pole

Motor Rating	Rating	Rated*
(full load) 1 1/2 HP @ 250V	22A @ 125-277VAC; 125 VA @ 24VAC	Class I Group C & D, Class II Group E, F, G
*Thermostat is not rated for use in Group B environments.		

5500 Series Washdown Fan Forced Unit Heater

8



- Heavy-duty 304 16 gauge stainless steel shroud.
- 316 stainless construction available.
- 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).



The Washdown Series unit heaters are electric unit heaters constructed for use in areas 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 this series ideal for industrial heating applications. The Washdown Series is constructed with all built-in controls and safety temperature controls wired in a non-metallic Nema 4x control panel with single-point power connections.

- Stainless steel finned tubular element. Constructed of 304 or 316 stainless rod and fins.
- 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.
- Fan Blade Epoxy coated Aluminum.
- Epoxy painted cold roll steel model available, consult factory
- Meets all U.L., NEC, and OSHA requirements (when installed as directed).
- Corrosion-resistant in high humidity and water-saturated areas (for areas where corrosion resistance is needed in non-explosive areas, contact factory for heater applications and optional materials).
- Thermostat temp range: 40°-110°F
- Made in U.S.A.



Mounting Bracket Kits & Product Dimensions

SIZE KW	MFG CATALOG NUMBER	STAINLESS Steel COMBINATION BRACKET	MFG CATALOG NUMBER	WALL MTG. BRACKET *	MFG CATALOG NUMBER	HANGING BRACKET *	MFG CATALOG NUMBER	PIPE MTG. BRACKET *
3.3-15	07136702	A5520/UHB	07137202	W5520/WMK	07137002	H5520/HMK	07136802	P5520/PMK
20-48		----	07137302	W5550/WMK	07137102	H5550/HMK	07136902	P5550/PMK

* Material: Heavy Duty Epoxy Powder Coat Finish.

A5520

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

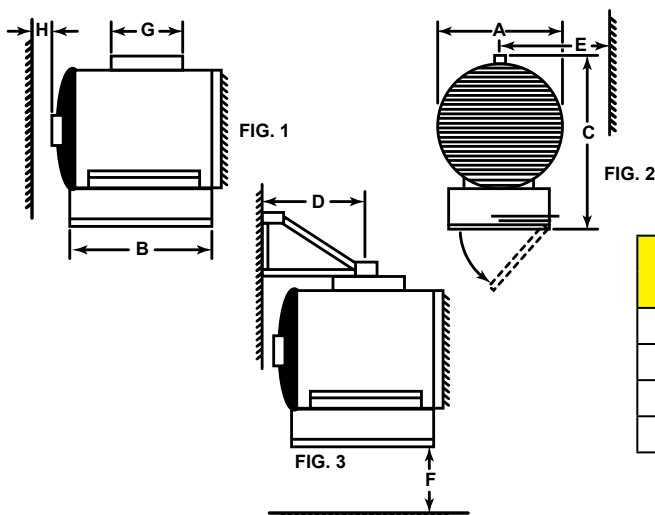
W5550

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

H5550

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

P5550



Heater KW	Heater Dimension in Inches unless otherwise stated.							
	A	B	C	D	E	F	G	H
3-7.5	12.00	18.00	19.75	15.25	16.25	6 ft.	8.00	6.00
10-15	14.00	19.00	21.75	15.25	18.00		8.00	6.00
20-30	16.00	27.00	28.75	19.50	17.50		15.50	4.50
40-48	18.00	31.00	30.75	19.50	19.50		21.75	2.75

5500 Series Washdown Fan Forced Unit Heater

Product Specifications & Standard Washdown Models

9

Enclosure and Motor: Element housing shall be 16 gauge 304 or 316 stainless steel shroud. The outlet grill and louver assembly shall be 304/316 stainless steel and rotate for direction of discharge air. The heater shall have a 304/316 stainless steel inlet grill and fan guard. The motor shall be totally enclosed, permanently lubricated and designed to resist moisture and corrosion. The fan blade shall be aluminum with a powder coated epoxy finish.

Element: The heating element shall be 304 or 316 stainless steel tube with 304/316 stainless steel fin material helically attached to the tube for even heat transfer. The element designed with the highest quality nickel-chromium resistance wire embedded in compacted efficient dielectric to ensure proper heat transfer.

Control Panel: The control enclosure shall be non-metallic Nema 4X control panel water-tight and dust-tight. The enclosure and elements are attached to the control panel with stainless steel fasteners. Standard control components are factory mounted and wired with access through control panel door on bottom of heater assembly. A standard door interlock disconnect switch shall be factory mounted and wired for safety.

Controls: All controls shall be factory mounted and wired in Nema 4X panel. Terminal block, 24 Volt transformer, high temperature limits, contactor and fusing if required by NEC are mounted and wired in control panel. A three-position switch (Off-Heat-Fan) shall be mounted on side of control panel for access from outside of panel. A pilot light to indicate power is on for safety shall be located on side of control panel. A wall mounted Nema 4X thermostat is an optional accessory.

Mounting Bracket: A formed 304/316 stainless steel bracket shall be used on 3.3 thru 15 KW units. A cast iron epoxy painted bracket shall be used on 20 thru 48 KW units. Above brackets shall be combination wall/ceiling type. Optional mounting brackets are available.

MFG CATALOG NUMBER	MFG MODEL NUMBER	KW	BTUs	VOLTS	PH	AMPS	CONTROL VOLTAGE	TEMP RISE °F	AIR THROW	CFM	WT. (LBS)												
07130402	F1F5503T	3.3	11200	208	1	15.9	24	26	20'	400	58												
07130502	F3F5503T			208	3	9.2																	
07130602	H1H5503T			240	1	13.7																	
07130702	H3H5503T			240	3	7.9																	
07130802	G1G5503T			277	1	11.9																	
07130902	P3P5503T			480	3	4																	
07131102	F1F5505T	5	17100	208	1	24.1		40				20'	400	58									
07131202	F3F5505T			208	3	13.9																	
07131302	H1H5505T			240	1	20.8																	
07131402	H3H5505T			240	3	12.1																	
07131502	G1G5505T			277	1	18.1																	
07131602	P3P5505T			480	3	6.1																	
07131802	F1F5507T	7.5	25600	208	1	36.1		60							20'	400	58						
07131902	F3F5507T			208	3	20.8																	
07132002	H1H5507T			240	1	31.3																	
07132102	H3H5507T			240	3	13.1																	
07132202	G1G5507T			277	1	27.1																	
07132302	P3P5507T			480	3	9.1																	
07132502	F1F5510T	10	34130	208	1	47.8		45	28'	700	64												
07132602	F3F5510T			208	3	27.7																	
07132702	H1H5510T			240	1	41.2																	
07132802	H3H5510T			240	3	24.1																	
07132902	G1G5510T			277	1	36.1																	
07133002	P3P5510T			480	3	12.1																	
07133902	F1F5515T	15	51200	208	1	72.1		68				35'	1400	92									
07134002	F3F5515T			208	3	41.7																	
07134102	H1H5515T			240	1	62.5																	
07134202	H3H5515T			240	3	36.1																	
07134402	P3P5515T			480	3	18.1																	
07134602	F3F5520T	20	68260	208	3	55.6		45										35'	1400	92			
07134702	H3H5520T			240	3	48.2																	
07134802	P3P5520T			480	3	24.1																	
07135002	F3F5525T	25	85325	208	3	69.5		56							35'	1400	92						
07135102	H3H5525T			240	3	60.2																	
07135202	P3P5525T			480	3	30.1																	
07135402	F3F5530T	30	102390	208	3	83.4		68													35'	1400	92
07135502	H3H5530T			240	3	72.3																	
07135602	P3P5530T			480	3	36.1																	
07136002	P3P5540T	40	136520	480	3	48.2		70	42'	1800	126												
07136402	P3P5548T	48	163824	480	3	57.8		84															

Remote Rain-Tight Thermostat



MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION
05234202	TW155A	1 POLE, 40-110 deg F, 22Amp
05234302	TW255A	2 POLE, 40-110 deg F, 22Amp

- NEMA 4X Construction with Stainless Steel Hardware
- Made in U.S.A. with domestic and foreign components

36", 42", & 48" TPI Industrial Belt Drive Portable Blowers

10



STANDARD
MODEL



CORDWRAP
INCLUDED WITH
STANDARD MODEL



SWIVEL
MODEL

Features

- Comes in sizes 36", 42", and 48"
- Rocker switch on 120V, Single Phase models
- SJT type 3 conductor, 12' long cord on 120V, Single Phase models / no cord on dual voltage models
- Aluminum, 4 paddle blade (48" PB / PBS have steel blade)
- Spiral, wire front and rear guards
- Corrosion and dent proof high density polyethylene housing
- 8" wheels (36" model), 10" wheels (42" & 48" models)
- Swivel model rotates 130° in 12 1/2° increments and locks in place with a steel locking pin
- 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, metal housings, and external junction boxes rated for Class I, Group D and Class II, Groups E, F, & G
- Meets OSHA standards
- 1 year limited warranty
- Made in U.S.A.

Motor Specifications

- 1-Speed
- Permanently lubricated
- Ball bearing

SIZE	MOTOR				CFM**	VELOCITY PROFILE	STANDARD MODEL			SWIVEL MODEL		
	TYPE	HP	RPM	AMPS		CFM / Area Sq Ft	MFG CATALOG NUMBER	MFG MODEL NUMBER	WT. (LBS)	MFG CATALOG NUMBER	MFG MODEL NUMBER	WT. (LBS)
36"	120/240V 1 PH EXP	1/2	500	7.8 / 3.9	6,900	14000 / 360	08508902	PB 36-B-HL*	135	08509502	PBS 36-B-HL	160
42"		3/4	430	10.8 / 5.4	10,600	17500 / 420	08509002	PB 42-B-HL*	150	08509602	PBS 42-B-HL	175
48"		1	390	13.2 / 6.6	14,400	23500 / 550	08509102	PB 48-B-HL*	173	08509702	PBS 48-B-HL	198

*Models have no listing.

**Measured 2 feet from face of fan

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.
Note: Photograph is a representation of stocked models. Actual model may vary slightly in appearance.

TPI Industrial Belt Drive Suspension Blowers



Features

- Explosion proof motors and external junction boxes are rated Class I, Div I Group D and Class II
- 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
- Mounting chain not included.
- Made in U.S.A.

Motor Specifications

- 120V, 1-Phase
- Ball bearing
- Permanent split capacitor
- 2-Speed on 30" & 36" model
- 1-Speed on 42" model
- Permanently lubricated

Standard Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	SIZE	MOTOR		CFM**	VELOCITY PROFILE	RPM	AMPS	WT. (LBS)
			TYPE	HP		CFM / Area Sq Ft			
08510102	SB 36-B-HL*	36"	115 / 230 V	1/2	6,900	14000 / 360	500	7.8 / 3.9	135
08510202	SB 42-B-HL*	42"	1 PH	3/4	10,600	17500 / 420	430	10.8 / 5.4	150
08510302	SB 48-B-HL*	48"	EXP	1	14,400	23500 / 550	390	13.2 / 6.6	173

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.
Note: Photograph is a representation of stocked models. Actual model may vary slightly in appearance.

*Models have no listing.

**Measured 2 feet from face of fan

TPI Industrial Specialty Circulator Heads



Features

- No cord-junction box provided for hard wiring
- Steel hub/spider aluminum paddle blades
- Coated steel guards
- Meets OSHA standards
- 1 year limited warranty
- Made in U.S.A. with domestic and foreign components.

Motor Specifications

- All 1 Speed
- Totally enclosed, permanently lubricated
- Ball bearing

Standard Models

GENERAL DESCRIPTION	MFG MODEL NUMBER	MFG CATALOG NUMBER	SIZE	CFM*		VELOCITY PROFILE CFM / Area Sq Ft	MOTOR			AMPS (HIGH)					WT. (LBS)
				HIGH	LOW		HP	RPM	VOLTS	120v 1 ph	240v 1 ph	277v 1 ph	240v 3 ph	480v 3 ph	
Hazardous Location Class I Group D Class II Group F & G Unassembled Head	ACH 24-EX1	08551902	24"	4300		6000 / 240	1/4	1725	120 or 240 1-phase	5	2.6	----	----	----	66
	ACH 30-EX1	08552002	30"	5400		7200 / 250									69
	ACH 24-EX3	08552102	24"	4300		6000 / 240			240 or 480 3-phase	----	----	----	1.4	0.7	66
	ACH 30-EX3	08552202	30"	5400		7200 / 250									69

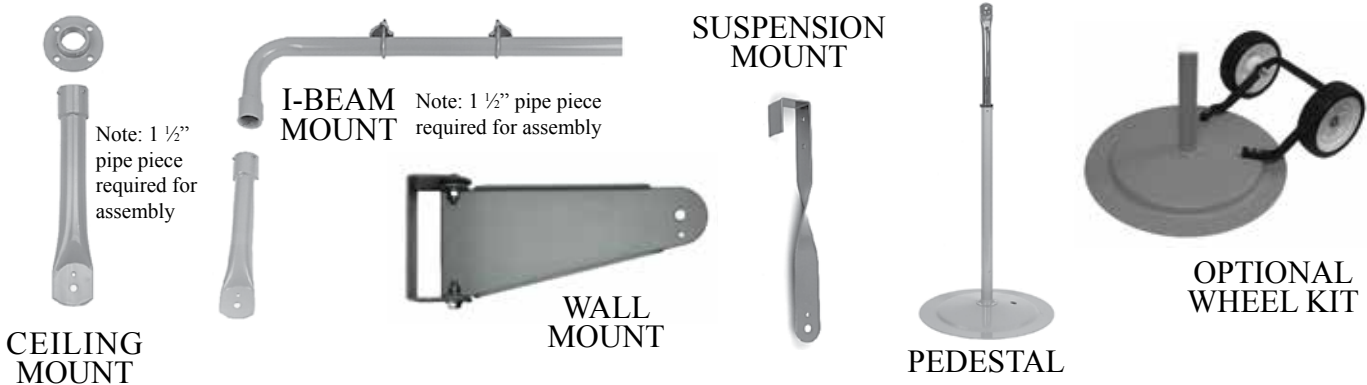
*Measured 2 feet from face of fan

Note: Can be used with any TPI Industrial circulator mount

Product Specifications

- Pedestal pole adjusts the center of fan from 48" to 67" and bolts to 27" diameter steel dome base with 5 carriage bolts
- I-beam mount & ceiling mount require 1 1/2" or longer pipe nipple for assembly (not supplied)
- Pole mount attaches to 4", 6", or 8" with U-bolts (not supplied)

Standard Models



CIRCULATOR MOUNT	MFG MODEL NUMBER	MFG CATALOG NUMBER	WT. (LBS)
Pedestal	ACM-P	07961802	34
Wall Mount	ACM-W	07961902	3
I-Beam Mount	ACM-I	07962002	9
Ceiling Mount	ACM-C	07962102	3
Suspension Mount	ACM-S	07962202	2
Pole Mount	ACM-PM	08681802	5
Optional Wheel Kit	ACM-WK	08681302	4

TPI Industrial Heavy Duty Direct Drive Blowers



LOW STAND

MEDIUM STAND

HIGH STAND

Features

- Totally enclosed and explosion proof motors
- Explosion proof motors are Class 1, Div 1, Group D and Class 2, Div 1, Groups F & G
- Cast Aluminum props
- 14 gauge steel body and stand
- Acid resistant coating available
- Baked enamel coating
- 360° Swivel on high and medium stand units
- Meets federal OSHA requirements
- 1 year limited warranty

NOTE:

Single phase motors are field convertible 115V / 230V

Three phase motors are field convertible 230V / 460V

Motors are set to lower voltage at the factory unless a request is made at time of order to set to the higher voltage

Standard Models

SIZE	MFG MODEL NUMBER	HP	RPM	CFM	DB's @ 10'	WT. (LBS)		
						STAND		
						LOW	MED	HIGH
MODEL NUMBER SUFFIXES								
18"	MCD18-1/4	1/4	1725	3050	74	103	145	210
	MCD18-1/3	1/3	1725	3450	76	105	150	215
	MCD18-1	1	1725	4600	77	117	165	230
24"	MCD24-1/4	1/4	1725	5200	80	115	165	230
	MCD24-1/3	1/3	1140	5300	74	126	175	250
	MCD24-1/2	1/2	1725	6000	80	120	170	240
	MCD24-3/4	3/4	1140	6900	74	140	190	260
	MCD24-1	1	1725	7400	82	130	180	250
	MCD24-1 1/2	1.5	1725	8200	84	137	190	255
	MCD24-3	3	1725	10500	87	160	210	270
30"	MCD30-1/3	1/3	1140	6900	80	150	205	260
	MCD30-1/2	1/2	1725	8900	86	141	195	250
	MCD30-3/4	3/4	1140	10400	80	210	260	320
	MCD30-1	1	1140	11200	81	200	260	310
	MCD30-1 1/2	1.5	1725	12000	92	200	250	310
	MCD30-2	2	1140	14000	84	225	270	330
	MCD30-3	3	1725	16000	94	220	265	325
36"	MCD36-1	1	1140	13000	82	250	320	375
	MCD36-1 1/2	1.5	1725	14850	88	250	320	375
	MCD36-2	2	1140	17500	82	255	325	380
	MCD36-3	3	1725	18500	90	260	330	390
	MCD36-5	5	1725	23000	94	260	330	390
42"	MCD42-2	2	1140	19500	85	315	415	565
	MCD42-5	5	1725	27000	98	320	420	570
48"	MCD48-5	5	1140	32000	92	500	620	710
	MCD48-7 1/2	7.5	1140	37000	105	625	745	835
	MCD48-10	10	1140	41000	105	682	800	890
60"	MCD60-3	3	690	35000	87	690	855	965
	MCD60-5	5	690	45000	87	730	895	1005
	MCD60-7 1/2	7.5	870	47000	90	945	1110	1220
	MCD60-10	10	870	57200	91	1035	1200	1310
	MCD60-15	15	870	60750	92	1080	1245	1355

Manual Starter Switches

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

Polyolfin Casters

MFG MODEL NUMBER	FAN SIZE	WHEEL SIZE	WT. (LBS)
CAS - 18	18" - 30"	4"	10
CAS - 48	36" - 48"	5"	14

(FOR LOW & MEDIUM STAND)
4 CASTERS - 2 LOCKING

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

TPI Industrial Heavy Duty Permanent Mount Direct Drive Blowers

13



1-WAY
SWIVEL



2-WAY
SWIVEL

Features

- Front and rear spiral guards
- Explosion proof motors are Class 1, Div 1, Group D and Class 2, Div 1, Groups F & G
- Cast aluminum props
- 14 gauge steel body and stand
- Meets federal OSHA requirements
- 1 year limited warranty

NOTE:

Single Phase motors are field convertible 115V / 230V

Three Phase motors are field convertible 230V / 460V

Motors are set to lower voltage at the factory unless a request is made at time of order to set to the higher voltage

Standard Models

BLADE SIZE	MFG MODEL NUMBER	HP	RPM	CFM	DB'S @ 10'	WT. (LBS)	
						1-WAY SWIVEL	2-WAY SWIVEL
	MODEL NUMBER SUFFIXES						
18"	MCD18-1/4	1/4	1725	3050	74	130	140
	MCD18-1/3	1/3	1725	3450	76	135	145
	MCD18-1	1	1725	4600	77	145	155
24"	MCD24-1/4	1/4	1725	5200	80	145	155
	MCD24-1/3	1/3	1140	5300	74	155	165
	MCD24-1/2	1/2	1725	6000	80	150	160
	MCD24-3/4	3/4	1140	6900	74	170	180
	MCD24-1	1	1725	7400	82	160	170
	MCD24-1 1/2	1.5	1725	8200	84	165	175
	MCD24-3	3	1725	10500	87	190	200
30"	MCD30-1/3	1/3	1140	6900	80	180	190
	MCD30-1/2	1/2	1725	8900	86	170	180
	MCD30-3/4	3/4	1140	10400	80	240	250
	MCD30-1	1	1140	11200	81	230	240
	MCD30-1 1/2	1.5	1725	12000	92	230	240
	MCD30-2	2	1140	14000	84	255	265
	MCD30-3	3	1725	16000	94	250	260
36"	MCD36-1	1	1140	13000	82	295	305
	MCD36-1 1/2	1.5	1725	14850	88	295	305
	MCD36-2	2	1140	17500	82	300	310
	MCD36-3	3	1725	18500	90	315	325
	MCD36-5	5	1725	23000	94	305	315

Exhaust Ventilation Guide

Minute air change chart for
Commercial and Industrial Applications.

CFM Required for Ventilation = $\frac{\text{Building Cubic Feet}}{\text{Minutes Per Air Change}}$

Place	Typical	Range
Assembly	(6)	2-10
Auditoriums	(6)	1-20
Bakeries	(2)	1-3
Banks	(6)	3-10
Bars	(4)	2-5
Barns	(15)	10-20
Boiler Rooms	(2)	1-3
Bowling Alley	(3)	1-5
Cafeteria	(4)	3-5
Churches	(6)	2-10
Classrooms	(6)	4-8
Compressor Rooms	(2)	1-3
Dance Halls	(6)	2-10
Dairies	(4)	2-5
Dormitories	(6)	4-8
Dry Cleaning Plant	(3)	1-5

Place	Typical	Range
Engine Rooms	(3)	1-5
Factories	(7)	4-10
Foundries	(5)	2-8
Garages	(7)	4-10
Generating Plants	(4)	2-5
Glass Plants	(2)	1-3
Gymnasiums	(6)	2-10
Hallways	(8)	4-12
Kitchens (Comm.)	(3)	1-5
Laboratories	(3)	1-5
Libraries	(4)	2-5
Laundries	(2)	1-3
Locker Rooms	(6)	2-10
Machine Shops	(4)	2-5
Markets	(6)	2-10

Place	Typical	Range
Mills	(4)	2-5
Packing Houses	(4)	3-5
Plants	(7)	4-10
Plating Plants	(4)	2-5
Print Shops	(7)	4-10
Restaurants	(6)	2-10
Rest Rooms	(7)	4-10
Schools	(7)	4-10
Stores	(7)	4-10
Theaters	(6)	4-8
Transformer Rooms	(3)	1-5
Turbine Rooms	(4)	2-5
Waiting Rooms	(12)	10-15
Warehouses	(7)	4-10
Welding Rooms	(3)	1-4

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

Heavy Duty Belt Drive Exhaust Fans

Features

- **Totally enclosed and explosion proof motors**
 - Explosion proof motors are Class 1, Div 1 Group D and Class 2, Div 1, Groups F & G
 - *For explosion proof models, consult factory
- Fans are shipped completely assembled
- Heavy gauge steel blades on TEC models
- Cast aluminum blades on EXP explosion proof models
- 14 gauge steel panel with welded steel pipe bracing
- 1 year limited warranty
- For optimum shutter efficiency, mount shutter $\frac{1}{3}$ the distance of the fan opening size. Example: 36" fan shutter would be mounted 12" from the fan blade.

Options

- CES Shutters
- EMF Front Guards
- IBG Rear Guards
- Reversed Air Flow
- Flat Front Venturi



Standard Models

BLADE SIZE	MFG MODEL NUMBER		PANEL SIZE (Sq.)	HP	RPM	CFM 0" SP	db's @ 10"	WT. (LBS)
	1-PHASE	3-PHASE						
	115/230V-60Hz	208/230/460v-60Hz						
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	975	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
	EHB36-2	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
	EHB42-2	EHB42-2-3		2	725	20653	74	245
	----	EHB42-3-3		3	830	23645	79	250
	EHB48-1/2	EHB48-1/2-3	54"	1/2	330	15230	69	190
48"	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
	EHB48-2	EHB48-2-3		2	520	24274	74	250
	----	EHB48-3-3		3	680	28150	80	270
	----	EHB48-5-3		5	800	33160	83	285
	EHB60-1	EHB60-1-3	66"	1	280	23090	76	380
60"	EHB60-1 1/2	EHB60-1 1/2-3		1 1/2	340	28068	77	390
	EHB60-2	EHB60-2-3		2	390	32200	78	395
	----	EHB60-3-3		3	450	37183	84	410
	----	EHB60-5-3		5	540	44600	86	420

Single Phase motors are field convertible 115V/230V. Three phase motors are field convertible 230V/460V. Motors are set to lower voltage at the factory, unless a request is made at time of order to set to the higher voltage. Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

*Not all EXP motors are 208V capable.

Dimensions

SIZE	BLADE DIAMETER	PANEL SIZE	DEPTH DIMENSION
24"	24"	30"	16"
30"	30"	36"	16"
36"	36"	42"	18"
42"	42"	48"	20"
48"	48"	54"	21"
60"	60"	66"	26"

Note: Depth dimension varies with motor selection.

Heavy Duty Direct Drive Exhaust Fans

Features

- **Totally enclosed and explosion proof motors.**
 - Explosion proof motors are Class 1, Div 1 Group D and Class 2, Div 1, Groups F & G
 - *For explosion proof models, consult factory*
- Fans are shipped completely assembled
- Cast aluminum blades
- 14 gauge steel panel with welded steel pipe bracing
- 1 year limited warranty

Options

- CES Shutters
- EMF Front Guards
- IBG Rear Guards
- Acid Resistant Coating
- Reversed Air Flow
- Flat Front Venturi



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Standard Models

BLADE SIZE	MFG MODEL NUMBER		PANEL SIZE (Sq.)	HP	RPM	CFM 0" SP	db's @ 10'	WT. (LBS)
	1-PHASE	3-PHASE						
	115/230V-60Hz	208/230/460v-60Hz						
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		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
	-----	EHD24-3-3		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
	-----	EHD30-1-3		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
	-----	EHD30-3-3		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
	-----	EHD36-3-3		3	1150	20500	85	255
	-----	EHD36-5-3		5	1725	28000	94	250
42"	-----	EHD42-1-3	48"	1	870	15800	82	300
	EHD42-2	EHD42-2-3		2	1150	17964	88	260
	-----	EHD42-3-3		3	1150	24500	88	270
	-----	EHD42-5-3		5	1150	28970	88	285
48"	-----	EHD48-3-3	54"	3	1150	28600	92	290
	-----	EHD48-5-3		5	1150	32000	94	305
60"	-----	EHD60-3-3	66"	3	1150	40000	97	700
	-----	EHD60-5-3		5	1150	45000	97	730
	-----	EHD60-7 1/2-3		7 1/2	870	47000	92	740
	-----	EHD60-10-3		10	870	57200	93	750

Single Phase motors are field convertible 115V/230V. Three phase motors are field convertible 230V/460V.

*Not all EXP motors are 208V capable.

Motors are set to lower voltage at the factory, unless a request is made at time of order to set to the higher voltage.

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

Dimensions

SIZE	BLADE DIAMETER	PANEL SIZE	DEPTH DIMENSION
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"

Note: Depth dimension varies with motor selection.

Exhaust Fan Accessories - Heavy Duty Exhaust Shutter

Features

- Air open - Gravity close
- Aluminum construction
- Heavy duty blades
- Weather stripping for tighter seal
- For optimum shutter efficiency, mount shutter $\frac{1}{3}$ the distance of the fan opening size. Example: 36" fan shutter would be mounted 12" from the fan blade.
- Shutter should be sized to fit exhaust opening

Standard Models

FAN SIZE	MFG MODEL NUMBER	INSIDE FRAME DIMENSIONS	OUTSIDE FRAME DIMENSIONS	WT. (LBS)
12"	CES-12	12" x 12"	14" x 15"	4
16"	CES-16	16" x 16"	19" x 19"	7
18"	CES-18	18" x 18"	21" x 21"	8
20"	CES-20	20" x 20"	23" x 23"	9
24"	CES-24	24" x 24"	27" x 27"	11
30"	CES-30	30" x 30"	33" x 33"	15
36"	CES-36	36" x 36"	39" x 39"	19
42"	CES-42	42" x 42"	45" x 45"	23
48"	CES-48	48" x 48"	51" x 51"	28
54"	CES-54	54" x 54"	57" x 57"	39
60"	CES-60	60" x 60"	63" x 63"	47



Heavy Duty Shutter Motor Kit Features



- 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, 60 HZ, 1-Phase

Standard Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	WT. (LBS)
07971002	MK-1	For shutter sizes 12" thru 30" (Single Panel)	5
07971102	MK-2	For shutter sizes 36" thru 60" (Double Panel)	8

Motorized Supply Air Intake Shutter

Features

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

Standard Models

FAN SIZE	MFG MODEL NUMBER	ROUGH OPENING	OVERALL SIZE	WT. (LBS)
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



Note: motorized shutters are NOT available with hazardous location motors.

Exhaust Fan Accessories - Fan Guards

Rear Box Guard Bolt Together With Wire Guards



Features

- For IE, IED, EHB and EHD models
- ¼" Smaller than the panel size of the fan
- Meets OSHA requirements

Standard Models

MFG MODEL NUMBER	FITS FAN SIZE
IBG-24	24"
IBG-30	30"
IBG-36	36"
IBG-42	42"
IBG-48	48"
IBG-60	60"

Rear Expanded Metal Box Guard



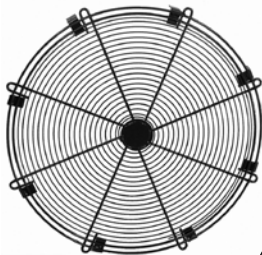
Features

- For IE, IED, EHB and EHD models
- ¼" Smaller than the panel size of the fan
- Meets OSHA requirements

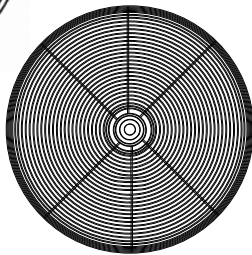
Standard Models

MFG MODEL NUMBER	FITS FAN SIZE
IBG-12	12"
IBG-16	16"
IBG-18	18"
IBG-20	20"

Spiral Front and Rear Guards



Spiral Front



Spiral Rear

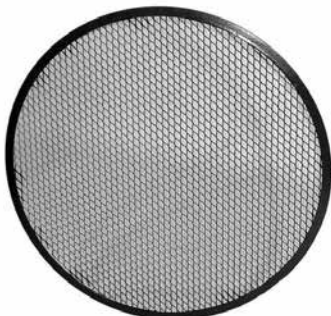
Features

- For EHD models only
- Fits between motor and blade
- Rear guard installed at factory only
- Meets OSHA requirements

Standard Models

MFG MODEL NUMBER	TYPE	FITS FAN SIZE
SF-12	SPIRAL FRONT	12"
SF-16		16"
SF-18		18"
SF-20		20"
SF-24		24"
SR-12	SPIRAL REAR	12"
SR-16		16"
SR-18		18"
SR-20		20"
SR-24		24"

Expanded Metal Front Guard



Expanded metal guard
60"

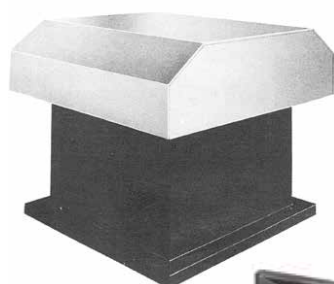
Features

- For EHB, EHD, IE, & IED models
- 1" Larger than blade size
- Meets OSHA requirements

Standard Models

MFG MODEL NUMBER	FITS FAN SIZE
EMF-12	12"
EMF-16	16"
EMF-20	20"
EMF-24	24"
EMF-30	30"
EMF-36	36"
EMF-42	42"
EMF-48	48"
EMF-60	60"

Belt Drive Hooded Roof Ventilators



CLOSED



OPEN

Features

- Used for exhaust or intake
- Heavy industrial steel base with aluminum hood
- Steel blades
- Bird screen included
- No back draft protection in standard construction. Dampers offered as optional accessory.
- 1 year limited warranty
- *For explosion proof models, consult factory**

Options

- Direct drive
- **Protective coatings, explosion proof.**
- Roof curb
- Filters

Dimensions

SIZE	MINIMUM ROOF HOLE (SQUARE)	HOLE LENGTH x WIDTH	HOOD HEIGHT	ROOF CURB O.D. (SQUARE)
24"	30"	54" x 64"	30"	39"
30"	36"	60" x 76"	36"	45"
36"	42"	72" x 82"	40"	51"
42"	48"	80" x 89"	43"	57"
48"	54"	87" x 95"	46"	63"
54"	60"	92" x 98"	54"	69"
60"	66"	90" x 107"	56"	75"

Standard Models

BLADE SIZE	1-PHASE 115/230V	3-PHASE 208/230/460v	HP	RPM	C.F.M - STATIC PRESSURE				Db's @ 10'	WT. (LBS)
	MFG MODEL NUMBER				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	1.5	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	1.5	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	1.5	550	17420	15421	13117	7289	71	560
	RE42-2	RE42-2-3	2	725	20653	19128	17503	11319	74	570
	-----	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	1.5	465	21731	19010	14991	7081	72	665
	RE48-2	RE48-2-3	2	520	24274	21943	19080	10125	74	680
	-----	RE48-3-3	3	680	28150	25683	23615	16930	80	700
	-----	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	1.5	450	25400	22600	19300	10316	75	920
	RE54-2	RE54-2-3	2	480	27200	24312	20660	11010	76	930
	-----	RE54-3-3	3	550	31213	28722	25830	15420	77	940
	-----	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	1.5	340	28068	23283	15624	8000	77	1150
	RE60-2	RE60-2-3	2	390	32200	26710	17924	9380	78	1200
	-----	RE60-3-3	3	450	37183	32356	25324	15013	84	1220
	-----	RE60-5-3	5	540	44600	41232	35819	23237	86	1240
	-----	RE60-7 1/2-3	7.5	620	50184	47603	43981	32880	89	1285

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

Direct Drive Roof Ventilators



Features

- Cast Aluminum blades on most models
- **Totally enclosed and explosion proof motors**
- 1-Phase motors are field convertible 115V/230V
- 3-Phase motors are field convertible 230V/460V
- Motors are set to lower voltage at the factory unless a request is made at time of order to set them to the higher voltage
- **Explosion proof motors are Class 1, Div 1, Group D and Class 2, Div 1, Groups F & G**
- **For explosion proof models, consult factory*
- Wind band is 18 gauge galvanized steel
- Rubber shim under dampers for better seal
- Size of roof opening to be 6" larger than fan size
- Some models available with low R.P.M. motor for quieter operation
- 1 year limited warranty

Options

- Protective coating.
- Disconnect switch
- Prefabricated curbs

Standard Models

BLADE SIZE	1-PHASE 115/230V	3-PHASE 208/230/460v	HP	RPM	C.F.M - STATIC PRESSURE				Db's @ 10'	WT. (LBS)
	MFG MODEL NUMBER				0"	1/8"	1/4"	1/2"		
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	----	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
	-----	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
	-----	UED30-1-3	1	870	10800	10100	9100	6360	74	330
	UED30-1 1/2	UED30-1 1/2-3	1.5	1140	10410	9686	8834	6420	81	325
	UED30-2	UED30-2-3	2	1140	14000	13750	12900	10450	82	335
	-----	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
	-----	UED36-3-3	3	1140	20500	19500	18500	15850	85	455
	-----	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
	-----	UED42-5-3	5	1140	28970	27960	26840	24200	89	500
48"	-----	UED48-3-3	3	1140	28600	26500	24400	20000	92	550
	-----	UED48-5-3	5	870	33000	31500	29750	25300	86	665
	-----	UED48-7 1/2-3	7.5	1140	37000	35100	32800	28000	94	740
	-----	UED48-10-3	10	1140	41000	39200	38300	35400	95	875
60"	-----	UED60-5-3	5	870	45200	41500	37000	26000	90	940
	-----	UED60-7 1/2-3	7.5	870	47000	45500	43600	38700	92	950
	-----	UED60-10-3	10	690	54000	51900	49000	43200	87	960

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

*Not all EXP motors are 208v capable.

Dimensions

SIZE	MINIMUM ROOF HOLE SIZE (SQUARE)	WIND BAND OUTER DIMENSION	ROOF CURB OUTER DIMENSION (SQUARE)	WIND BAND HEIGHT
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"

Tubeaxial Belt Drive Duct Fans

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Features

- Eliminates fumes and vapors from paint spray booths and other hazardous areas
- **Totally enclosed and explosion proof motors**
- 1-Phase motors are field convertible 115V/230V
- 3-Phase motors are field convertible 230V/460V
- Motors are set to lower voltage at the factory unless a request is made at time of order to set them to the higher voltage
- **Explosion proof motors are Class 1, Div 1, Group D and Class 2, Div 1, Groups F & G**
- **For explosion proof models, consult factory*
- Recommended for most paint spray applications because motor is out of air
- 14 gauge steel drum including mounting flanges at each end
- Completely enclosed belt and ball bearing housing
- Adjustable motor base for proper belt tension
- Rugged cast aluminum blade, non-sparking
- Fan can be mounted to operate in any position
- 1 year limited warranty

Options

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

Standard Models

BLADE SIZE	1-PHASE 115/230V-60Hz	3-PHASE 230/460v-60Hz	HP	RPM	BLADES	C.F.M - STATIC PRESSURE				Db's @10'	WT (LBS)
	MFG MODEL NUMBER					0"	1/4"	1/2"	3/4"		
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
24"	TXB18-1 1/2	TXB18-1 1/2-3	1.5	1990	6	5350	4830	3950	3000	80	105
	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	1.5	1540	6	8200	7650	6850	5500	81	145
	TXB24-2	TXB24-2-3	2	1600	6	9760	8830	8090	7000	82	170
	-----	TXB24-3-3	3	1725	6	10500	9500	8700	7800	86	190
	TXB27-3/4	TXB27-3/4-3	3/4	1250	6	8330	7550	6500	4650	78	150
27"	TXB27-1	TXB27-1-3	1	1400	6	9400	8480	7300	5200	82	155
	TXB27-1 1/2	TXB27-1 1/2-3	1.5	1600	6	10700	9700	8375	6000	84	170
	TXB27-2	TXB27-2-3	2	1350	6	11500	10700	9300	8000	81	210
	TXB30-1/2	TXB30-1/2-3	1/2	1140	4	8900	6660	2300	----	79	140
30"	TXB30-1	TXB30-1-3	1	1298	6	9867	7980	4120	----	82	150
	TXB30-1 1/2	TXB30-1 1/2-3	1.5	1035	6	11100	9700	7500	3500	78	165
	TXB30-2	TXB30-2-3	2	1176	6	12100	11000	9322	6700	81	215
	-----	TXB30-3-3	3	1350	6	13480	12498	11465	10380	84	215
	-----	TXB30-5-3	5	1650	6	16440	15242	13982	12659	88	230
	TXB34-1 1/2	TXB34-1 1/2-3	1.5	1170	6	13695	11100	6000	1015	82	190
34"	TXB34-2	TXB34-2-3	2	1027	6	14657	12590	10000	8000	81	240
	-----	TXB34-3-3	3	1175	6	17580	15896	14095	12000	85	260
	-----	TXB34-5-3	5	1416	6	20500	19000	17500	16000	88	305
	TXB42-1 1/2	TXB42-1 1/2-3	1.5	750	4	18960	14662	7200	----	78	250
42"	TXB42-2	TXB42-2-3	2	820	4	20700	17002	11400	4000	80	260
	-----	TXB42-3-3	3	890	4	23700	20200	16970	9950	82	260
	-----	TXB42-5-3	5	850	6	26900	24403	22250	18400	82	270
	-----	TXB48-5-3	5	800	6	33000	29000	25600	20000	85	375
48"	-----	TXB48-7 1/2-3	7.5	900	6	37000	34500	31000	27000	87	520

Dimensions

SIZE	HOUSING INNER DIMENSION	HOUSING OUTER DIMENSION	BOLT HOLE CENTERS	HOUSING DEPTH
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 1/16"	18"
48"	48"	51"	49 5/8"	24"

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

Tubeaxial Direct Drive Duct Fans



Dimensions

SIZE	HOUSING INNER DIM.	HOUSING OUTER DIM.	BOLT HOLE CENTERS	HOUSING DEPTH
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"

Features

- **Totally enclosed and explosion proof motors**
- 1-Phase motors are field convertible 115V/230V
- 3-Phase motors are field convertible 230V/460V
- Motors are set to lower voltage at the factory unless a request is made at time of order to set them to the higher voltage
- **Explosion proof motors are Class 1, Div 1, Group D and Class 2, Div 1, Groups F & G**
- **For explosion proof models, consult factory*
- 14 gauge steel drum including mounting flanges
- Fan can be mounted to operate in any position
- Rugged cast aluminum blade, non-sparking
- 1 year limited warranty

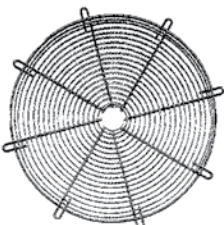
Options

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

Standard Models

BLADE SIZE	1-PHASE 115/230V	3-PHASE 230/460v	HP	RPM	BLADES	C.F.M - STATIC PRESSURE				Db's @ 10'	WT. (LBS)
	MFG MODEL NUMBER					0"	1/4"	1/2"	3/4"		
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
	-----	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
	-----	TXD30-3-3	3	1725	6	16000	14700	12900	10200	89	175
34"	TXD34-1 1/2	TXD34-1 1/2-3	1.5	1725	4	13350	10000	7300	----	88	175
	TXD34-2	TXD34-2-3	2	1725	4	14850	12100	8800	4000	89	200
	-----	TXD34-3-3	3	1140	3	19300	17230	14800	11614	86	250
	-----	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
	-----	TXD36-3-3	3	1725	4	18500	15700	13900	11500	89	230
42"	-----	TXD42-1-3	1	870	4	15800	13480	5800	900	81	270
	TXD42-2	TXD42-2-3	2	1140	4	17964	15326	12351	7600	87	260
	-----	TXD42-3-3	3	1140	4	24500	23000	19650	14000	87	260
	-----	TXD42-5-3	5	1140	4	28970	26840	24200	19500	87	300
48"	-----	TXD48-3-3	3	1140	4	28600	24400	20000	15900	94	290
	-----	TXD48-5-3	5	870	4	33000	29750	25300	18000	86	500

Duct Fan Guards



Features

- Enamel finish
- Can be used as front or rear guards. (Rear guard for TXD models must be ordered with fan)

Standard Models

FAN SIZE	MFG MODEL	FAN SIZE	MFG MODEL
12"	TXG-12	30"	TXG-30
15"	TXG-15	34"	TXG-34
18"	TXG-18	36"	TXG-36
24"	TXG-24	42"	TXG-42
27"	TXG-27	48"	TXG-48

Note: Products listed in this section are custom built and subject to 100% cancellation/restocking charges.

Hazardous Location Information

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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 gases 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 10^5 OHM-Centimeter or greater.
- GROUP F:** Atmospheres containing carbon black, charcoal, coal, or coke dust.
- GROUP G:** Atmospheres containing combustible dust having resistivity of 10^5 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 vol)	400	752
Propylene oxide	449	840
Group C		
	Ignition Temperature	
	°C	°F
Acetaldehyde	175	347
Cyclopropane	500	932
Diethyl ether	160	932
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 & G. Classification involves investigation and 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
Alcohols		
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) (100 octane)	280 456	536 853
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

TPI Corporation provides a limited warranty of materials and workmanship for a period of (i) ten (10) years for Baseboard Elements, (ii) two (2) years for Thermostats and Controls, and (iii) twelve (12) months for all other products, with the warranty period commencing on the original date of purchase. The TPI warranty is limited to materials manufactured and work performed by TPI Corporation, and does not include damage or failure caused by acts of God, abuse, misuse, connected to or placed on other than rated voltage, abnormal usage, faulty installation, failure to follow suggested maintenance procedures enclosed with the product, improper maintenance or any repairs other than those provided by an authorized TPI Corporation service center. For the name of your nearest authorized TPI Corporation service center, please write to TPI Corporation, P.O. Box 4973, Johnson City, Tennessee, 37602 or call 800-682-3398.

During the warranty period, TPI Corporation will, at 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. No parts or products will be accepted for repair or replacement without prior authorization from TPI Corporation and a return merchandise authority (RMA) number issued by TPI Corporation. 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 TPI Corporation assume any liability for secondary charges, expenses for installing or removal, freight or damages. There will be charges rendered for product repairs made after the warranty period has expired. Proof of purchase, including date, must accompany request for in-warranty service. This warranty gives you specific legal rights and you may have other rights, which may vary, from state to state.

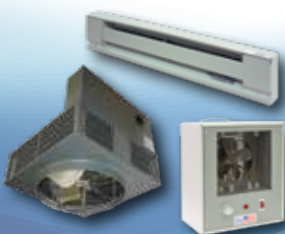
Except for the limited warranty provided in the foregoing paragraph, all parts and products sold by TPI Corporation are sold 'as is', 'where is', and without any other warranty of any kind or nature, whether express, implied, or statutory and including, without limitation, any implied warranty of specific performance or merchantability.

Under no circumstances, even with respect to claims covered by the foregoing warranty, will TPI Corporation be responsible for any incidental, consequential, special, or punitive damages of any kind or nature arising from or related to the parts or products sold by TPI Corporation.

In any event, TPI Corporation's maximum liability shall not in any case exceed the purchase price for the part or product claimed to be defective.

You hereby expressly agree to waive any and all rights to a trial by jury with respect to any product manufactured or supplied by TPI Corporation.

TPI Corporation Product Line



HEATING



VENTILATION



LIGHTING



CONTROLS

