



General Characteristics of EHD Series Explosion Proof Heavy Duty Direct Drive Exhaust Fan

The EHD Series is totally enclosed and explosion-proof motors and are direct driven.

Explosion-proof motors are Class 1, Div 1 Group D and Class 2, Div 1, Groups F & G.

Made for industrial and commercial industries and can operate constantly.

For indoor and ventilation use.

The fans are shipped completely assembled.

Construction is an industrial heavy duty.

Made with cast aluminum blades.

It comes with a 14 gauge steel panel with welded steel pipe bracing.

Single-phase motors are field convertible 115V/230V.

Three-phase motors are also field convertible 230V/460V.

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

Note: Products listed here are custom-built and subject to 100% cancellation/restocking charges.

Depth dimensions vary with motor selection.

Options: CES shutters, EMF front guards, IBG rear-guards, acid-resistant coating, reversed airflow and/or flat front venturi.

All options must be specified with a quote and are quoted separately.

Product Applications of EHD Series Explosion Proof Heavy Duty Direct Drive Exhaust Fan

Recommended for most industrial and commercial ventilation where hot stagnant air needs to be removed and an Explosion Proof motor is required.

For Indoor use.

CAUTION, WARNING: Although this product is supplied with an explosion-proof motor and aluminum spark arresting fan blade, it is not intended to convey the suitability of the overall finished product in an explosive atmosphere, but only that the product has been supplied with certain components for this purpose. Wiring must be in accordance with local, state and national codes and be performed by a qualified electrician.

Warranty of EHD Series Explosion Proof Heavy Duty Direct Drive Exhaust Fan

Manufacturer's Limited Warranty: 1 Year.





**EHD Series
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 Heavy Duty Direct Drive
 Exhaust Fans**
 Data Sheet

Specific Characteristics of EHD Series Explosion Proof Heavy Duty Direct Drive Exhaust Fan

Item#	Manufacturing #	Blade Dia. (In.)	CFM 0" SP	Volts V	Amperes A	Phases Ph	HP	Hz	RPM	dB's @ 10'	Weight and Dimensions with packaging	
											Lbs.	L,W,H In.
USVSP-001	EHD12-1/4	12	1180	115/230	2.25/1.13	1	1/4	60	1725	74	37	13,18,18
USVSP-002	EHD12-1/4-3	12	1180	230/460		3	1/4	60	1725	74	37	13,18,18
USVSP-003	EHD16-1/4	16	1180	115/230	2.25/1.13	1	1/4	60	1725	75	47	13,22,22
USVSP-004	EHD16-1/4-3	16	2800	230/460		3	1/4	60	1725	75	47	13,22,22
USVSP-005	EHD18-1/3	18	3375	115/230		1	1/3	60	1725	75	62	15,24,24
USVSP-006	EHD18-1/3-3	18	3375	230/460		3	1/3	60	1725	75	62	15,24,24
USVSP-007	EHD18-1/2	18	4150	115/230		1	1/2	60	1725	76	62	15,24,24
USVSP-008	EHD18-1/2-3	18	4150	230/460		3	1/2	60	1725	76	62	15,24,24
USVSP-009	EHD20-1/4	20	3720	115/230		1	1/4	60	1725	75	62	15,26,26
USVSP-010	EHD20-1/4-3	20	3720	230/460		3	1/4	60	1725	75	62	15,26,26
USVSP-011	EHD20-1/2	20	4800	115/230		1	1/2	60	1725	76	67	15,26,26
USVSP-012	EHD20-1/2-3	20	4800	230/460		3	1/2	60	1725	76	67	15,26,26
USVSP-013	EHD20-1	20	6900	115/230		1	1	60	1725	77	72	15,26,26
USVSP-014	EHD20-1-3	20	6900	230/460		3	1	60	1725	77	72	15,26,26
USVSP-015	EHD24-1/4	24	5200	115/230		1	1/4	60	1725	82	137	17,32,32
USVSP-016	EHD24-1/4-3	24	5200	230/460		3	1/4	60	1725	82	137	17,32,32
USVSP-017	EHD24-1/3	24	4975	115/230		1	1/3	60	1150	75	147	17,32,32
USVSP-018	EHD24-1/3-3	24	4975	230/460		3	1/3	60	1150	75	147	17,32,32
USVSP-019	EHD24-1/2	24	6510	115/230		1	1/2	60	1725	82	142	17,32,32
USVSP-020	EHD24-1/2-3	24	6510	230/460		3	1/2	60	1725	82	142	17,32,32
USVSP-021	EHD24-3/4	24	6900	115/230		1	3/4	60	1725	83	147	17,32,32
USVSP-022	EHD24-3/4-3	24	6900	230/460		3	3/4	60	1725	83	147	17,32,32
USVSP-023	EHD24-1	24	7425	115/230		1	1	60	1725	83	157	17,32,32
USVSP-024	EHD24-1-3	24	7425	230/460		3	1	60	1725	83	157	17,32,32
USVSP-025	EHD24-2-3	24	9525	115/230		1	2	60	1725	83	167	17,32,32
USVSP-026	EHD24-3-3	24	10500	230/460		3	3	60	1725	85	172	17,32,32
USVSP-027	EHD30-1/3	30	6950	115/230		1	1/3	60	1150	79	147	17,38,38
USVSP-028	EHD30-1/3-3	30	6950	230/460		3	1/3	60	1150	79	147	17,38,38
USVSP-029	EHD30-1/2	30	8980	115/230		1	1/2	60	1725	89	137	17,38,38
USVSP-030	EHD30-1/2-3	30	8980	230/460		3	1/2	60	1725	89	137	17,38,38
USVSP-031	EHD30-3/4	30	10440	115/230		1	3/4	60	1150	79	177	17,38,38
USVSP-032	EHD30-3/4-3	30	10440	230/460		3	3/4	60	1150	79	177	17,38,38
USVSP-033	EHD30-1 1/2	30	12000	115/230		1	1 1/2	60	1725	89	167	17,38,38
USVSP-034	EHD30-1 1/2-3	30	12000	230/460		3	1 1/2	60	1725	89	167	17,38,38
USVSP-035	EHD30-2-3	30	14000	230/460		3	2	60	1150	82	220	17,38,38
USVSP-036	EHD30-3-3	30	16000	230/460		3	3	60	1725	89	192	17,38,38
USVSP-037	EHD36-1	36	13600	115/230		1	1	60	1150	84	230	20,44,44
USVSP-038	EHD36-1-3	36	13600	230/460		3	1	60	1150	84	230	20,44,44
USVSP-039	EHD36-2-3	36	17620	230/460		3	2	60	1150	84	255	20,44,44
USVSP-040	EHD36-3-3	36	20500	230/460		3	3	60	1150	85	260	20,44,44
USVSP-041	EHD36-5-3	36	28000	230/460		3	5	60	1725	94	255	20,44,44
USVSP-042	EHD42-2-3	42	17964	230/460		3	2	60	1150	88	265	20,50,50
USVSP-043	EHD42-3-3	42	24500	230/460		3	3	60	1150	88	275	20,50,50
USVSP-044	EHD42-5-3	42	28970	230/460		3	5	60	1150	88	290	20,50,50
USVSP-045	EHD48-3-3	48	28600	230/460		3	3	60	1150	92	295	22,56,56
USVSP-046	EHD48-5-3	48	32000	230/460		3	5	60	1150	94	310	22,56,56
USVSP-047	EHD60-3-3	60	45000	230/460		3	3	60	1150	97	710	24,68,68

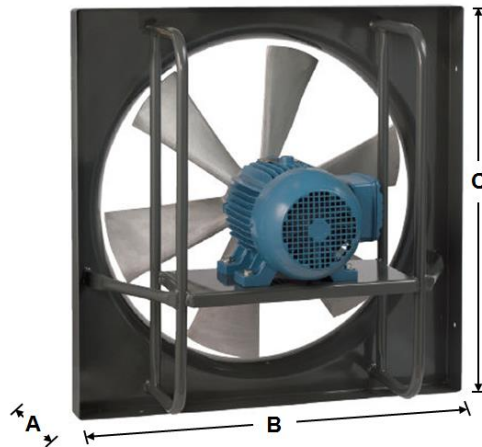


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											Lbs.	L,W,H In.
USVSP-048	EHD60-5-3	60	45000	230/460		3	3	60	1150	97	740	24,68,68

Dimensions (In.) of EHD Series Explosion Proof Heavy Duty Direct Drive Exhaust Fan

Series	Length		Width		Height
	A		B		C
USVSP-001 & 002	11"		16"		16"
USVSP-003 & 004	11"		20"		20"
USVSP-005 to 008	13"		22"		22"
USVSP-009 to 014	13"		24"		24"
USVSP-015 to 026	15"		30"		30"
USVSP-027 to 036	15"		36"		36"
USVSP-037 to 044	18"		42"		42"
USVSP-042 to 044	18"		48"		48"
USVSP-045 & 046	20"		54"		54"
USVSP-047 & 048	22"		66"		66"





EHD Series Explosion Proof Heavy Duty Direct Drive Exhaust Fan

Rating Definitions

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 a 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 that 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 a 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 a 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.