



**General Characteristics of UED Series Explosion Proof Direct Drive Roof Ventilators**

The UED Series Explosion Proof is a ceiling mounted Exhaust fan with an explosion proof motor, finished off with a protective coating. Explosion proof motors are Class 1, Div. 1, Group D & Class 2, Div. 1, Groups F & G.

Used for indoor and outdoor extraction.

For industrial and commercial use.

Includes Cast aluminum blades on most of the models.

Comes with disconnect switch.

Has prefabricated curbs.

Single Phase motors are field convertible 115V/230V.

Three Phase motors are field convertible 230V/460V.

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

Wind band is 18 gauge galvanized steel.

Rubber shim under dampers for better seal.

The size of the roof opening should be 6" larger than fan size.

Some of the UED Series Explosion Proof models are available with low R.P.M. motors for quieter for quieter operation.

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



**Product Applications of UED Series Explosion Proof Direct Drive Roof Ventilators**

For use in Industry in general where explosive gases are located.

Following these guide lines:

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

Extracts: Heat, some explosive gasses.

**Warranties and Guaranties of UED Series Explosion Proof Direct Drive Roof Ventilators**

Manufacturer's Limited Warranty: 1 Year in the USA.

**Specific Characteristics of UED Series Explosion Proof Direct Drive Roof Ventilators**

Item #	Manufacturing #	Phases PH	Volts V	Hp	RPM	C.F.M - Static				Db's	Weight and Dimensions with Packaging	
						0"	1/8"	1/4"	1/2"		Lbs.	L,W,H In.
<b>USUES-001</b>	UED18-1/4	1	115/230	1/4	1140	2570	2263	1673	854	66	172	35,35,18
<b>USUES-002</b>	UED18-1/3	1	115/230	1/3	1725	3375	3000	2600	1400	75	177	35,35,18
<b>USUES-003</b>	UED18-1/2	1	115/230	1/2	1725	4133	3938	3724	3132	76	182	35,35,18
<b>USUES-004</b>	UED18-1	1	115/230	1	1725	4600	4375	4080	3000	77	192	35,35,18
<b>USUES-005</b>	UED18-1/4-3	3	230/460	1/4	1140	2570	2263	1673	854	66	172	35,35,18
<b>USUES-006</b>	UED18-1/3-3	3	230/460	1/3	1725	3375	3000	2600	1400	75	177	35,35,18
<b>USUES-007</b>	UED18-1/2-3	3	230/460	1/2	1725	4133	3938	3724	3132	76	182	35,35,18
<b>USUES-008</b>	UED18-1-3	3	230/406	1	1725	4600	4375	4080	3000	77	192	35,35,18
<b>USUES-009</b>	UED24-1/4	1	115/230	1/4	1725	5200	4200	2820	-	75	245	41,41,21
<b>USUES-010</b>	UED24-3/4	1	115/230	3/4	1140	6900	6450	6265	3300	76	265	41,41,21



## UED Series Explosion Proof Direct Drive Roof Ventilators Data Sheet

Item #	Manufacturing #	Phases PH	Volts V	Hp	RPM	C.F.M - Static				Db's	Weight and Dimensions with Packaging	
						0"	1/8"	1/4"	1/2"		Lbs.	Lbs.
USUES-011	UED24-1	1	115/230	1	1725	7425	7000	6350	5000	83	285	41,41,21
USUES-012	UED24-1/4-3	3	230/460	1/4	1725	5200	4200	2820	-	75	245	41,41,21
USUES-013	UED24-3/4-3	3	230/460	3/4	1140	6900	6450	6265	3300	76	265	41,41,21
USUES-014	UED24-1-3	3	230/460	1	1725	7425	7000	6350	5000	83	285	41,41,21
USUES-015	UED24-3-3	3	230/460	3	1725	10500	9800	9500	8700	85	300	41,41,21
USUES-016	UED30-3/4	1	115/230	3/4	1140	10440	9750	8750	6000	79	315	47,47,24
USUES-017	UED30-3/4-3	3	230/460	3/4	1140	10440	9750	8750	6000	79	315	47,47,24
USUES-018	UED30-1 1/2-3	3	230/460	1.5	1140	10410	9686	8834	6420	81	330	47,47,24
USUES-019	UED30-2-3	3	230/460	2	1140	14000	13750	12900	10450	82	340	47,47,24
USUES-020	UED30-3-3	3	230/460	3	1725	16000	15350	14700	12900	89	340	47,47,24
USUES-021	UED36.2-3	3	230/460	3	1140	17620	16500	15200	12300	84	435	53,53,27
USUES-022	UED36-3-3	3	230/460	5	1140	20500	19550	18500	15850	85	460	53,53,27
USUES-023	UED36-5-3	3	230/460	2	1140	22600	21700	20550	19000	87	470	53,53,27
USUES-024	UED42-2-3	3	230/460	2	1140	17964	17277	15326	12351	88	505	59,59,29
USUES-025	UED42-5-3	3	230/460	5	1140	28970	27960	26840	24200	89	505	59,59,29
USUES-026	UED48-3-3	3	230/460	3	1140	28600	26500	24400	20000	92	555	65,65,32
USUES-027	UED48-7 1/2-3	3	230/460	7.5	1140	37000	35100	32800	28000	94	745	65,65,32
USUES-028	UED48-10-3	3	230/460	10	1140	41000	39200	38300	35400	95	880	65,65,32

### Dimensions (In.) of UED Series Explosion Proof Direct Drive Roof Ventilators

Series	Length A	Width B	Height C
USUES-001 to 008	33"	33"	16"
USUES-009 to 015	39"	39"	19"
USUES-016 to 020	45"	45"	22"
USUES-021 to 023	51"	51"	25"
USUES-024 to 025	57"	57"	27"
USUES-026 to 028	63"	63"	30"





## UED Series Explosion Proof Direct Drive Roof Ventilators

### Ratings 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 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.