



Side Blow GFD560-90



Top Blow GFDD560-90



Side Blow GFD490-120



Top Blow GFDD490-120



Side Blow GFD470-150



Top Blow GFDD470-150

**产品概述**  
PRODUCT DESCRIPTION

GFDD series cross-flow cooling fans for top-blown dry-type transformers are mainly used for cooling and capacity expansion of dry-type transformers, and forced air cooling for electronic equipment, power distribution cabinets, high and low voltage switch cabinets, etc. . After the dry-type transformer is equipped with the fan to dissipate heat, it can increase the capacity by 40-50%, thereby greatly improving the carrying capacity of the dry-type transformer and prolonging the service life of the dry-type transformer. It is the most economical and effective method commonly used by domestic and foreign manufacturers.

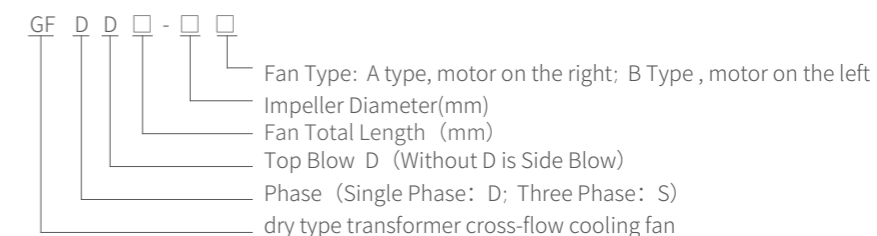
**工作原理**  
WORKING PRINCIPLE

When the GFDD series cooling fan is used in a dry-type transformer, the fan is placed on both sides of the lower part of the transformer coil, and the cold air is directly blown into the high and low-voltage cooling air passages of the dry-type transformer coil. The heat dissipation effect is obvious, ensuring the normal operation of the transformer and extending its service life.

**供风原理**  
WIND SUPPLY PRINCIPLE

The air from the fan is fed into the air ducts of the high and low coils of the dry-type transformer at a certain angle (the angle is 45-60 with the horizontal), and the air ducts between the iron core and the coil, and the air ducts between the iron core and the coil. The tuyere and angle are very reasonable, and the effective air volume entering the tuyere is large, so that the transformer has good heat dissipation, strong carrying capacity and long service life.

**型号含义**  
MODEL MEANING



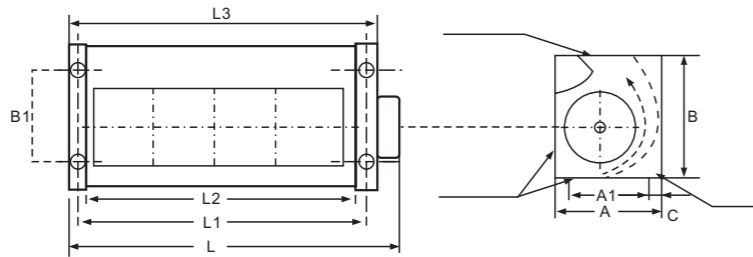
**技术参数**  
TECHNICAL PARAMETERS

Type (A, B Type)	Motor Rated Specification			Air Flow ≥ (m/h)	Noise DB(A)	Air Pressure ≥ (Pa)	Transformer Capacity(kV A)	No. of fans for each transformer
	Voltage / Frequency (V/Hz)	rotation speed (r/min)	Power (W)					
GFDD440-90	220/50	1400	40	570	51	22	400-800	4
GFDD560-90	220/50	1400	40	750	53	22	500-800	4
GFDD660-90	220/50	1400	40	900	53	22	630-1000	4
GFDD760-90	220/50	1400	40	1050	53	22	100-800	4 or 2
GFDD860-90	220/50	1400	40	1200	53	22	315-500	2
GFDD365-120	220/50	1400	40	580	53	23	315-630	6
GFDD385-120	220/50	1400	40	630	53	23	400-1000	6
GFDD440-120	220/50	1400	40	750	53	23	800-1250	6
GFDD470-120	220/50	1400	40	810	53	23	800-1000	6
GFDD490-120	220/50	1400	40	850	53	23	1000-1600	6
GFDD520-120	220/50	1400	40	900	53	23	1250-2000	6
GFDD560-120	220/50	1400	60	930	53	23	1600-2000	6
GFDD590-120	220/50	1400	60	950	53	25	2000-2500	6
GFDD690-120	220/50	1400	60	1050	55	25	630-800 2500-3150	4 6
GFDD770-120	220/50	1400	60	1130	55	25	800-1000	4
GFDD860-120	220/50	1400	60	1300	55	30	1000-1600	4
GFDD365-150	220/50	1400	70	950	55	30	630-1100	6
GFDD470-150	220/50	1400	80	1250	57	30	800-1600	6
GFDD490-150	220/50	1400	80	1300	57	30	1600-2000	6
GFDD590-150	220/50	1400	100	1550	57	30	2000-2500	6
GFDD690-150	220/50	1400	110	1700	59	30	2500-3150	6
GFDD770-150	220/50	1400	110	1800	59	30	3150-5000	6

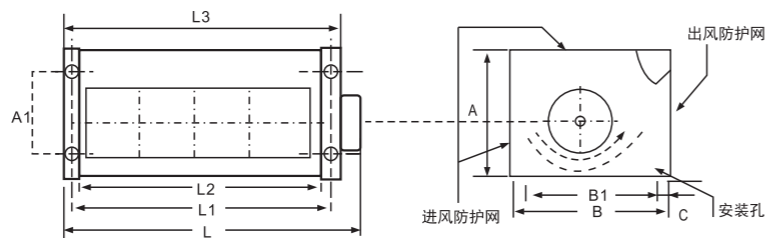
外形及安装尺寸

SHAPE AND INSTALLATION DIMENSIONS

GFDD Series( Impeller Φ90、Φ120、Φ150) Outline Dimension Diagram 1  
L(L)× W(A)× H(B) Screw Hole Distance L1×A1



GFD Series( Impeller Φ90、Φ120、Φ150) Outline Dimension Diagram 2  
L(L)× W(B)× H(A) Screw Hole Distance



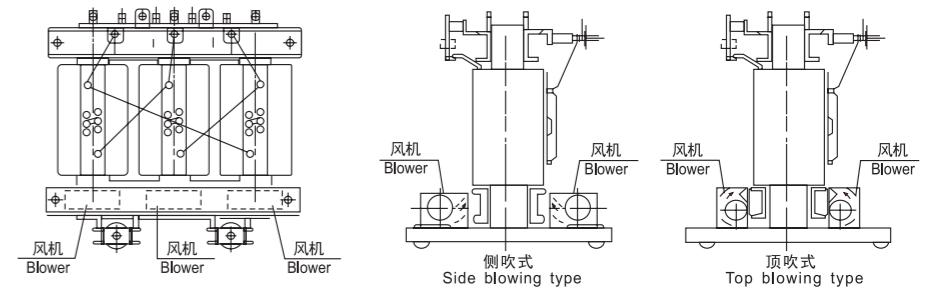
Model	L	L1	L2	L3	A	A1	B	B1	C	Hole Size
440-90	440	400	380	424	130	100	150	120	15	4-Φ7×10
560-90	560	520	500	544	130	100	150	120	15	4-Φ7×10
660-90	660	620	600	644	130	100	150	120	15	4-Φ7×10
760-90	760	720	700	744	130	100	150	120	15	4-Φ7×10
860-90	860	820	800	844	130	100	150	120	15	4-Φ7×10
365-120	365	325	305	341	150	120	170	150	15	4-Φ7×10
385-120	385	345	325	361	150	120	170	150	15	4-Φ7×10
440-120	440	400	380	416	150	120	170	150	15	4-Φ7×10
470-120	470	430	410	446	150	120	170	150	15	4-Φ7×10
490-120	490	450	430	466	150	120	170	150	15	4-Φ7×10
520-120	520	480	460	496	150	120	170	150	15	4-Φ7×10
560-120	560	520	500	536	150	120	170	150	15	4-Φ7×10
590-120	590	550	530	566	150	120	170	150	15	4-Φ7×10
690-120	690	650	630	666	150	120	170	150	15	4-Φ7×10
770-120	770	730	710	746	150	120	170	150	15	4-Φ7×10
860-120	860	820	800	836	150	120	170	150	15	4-Φ7×10
365-150	365	325	305	341	195	160	190	160	17	4-Φ7×10
470-150	470	430	410	446	195	160	190	160	17	4-Φ7×10
490-150	490	450	430	466	195	160	190	160	17	4-Φ7×10
590-150	590	550	530	566	195	160	190	160	17	4-Φ7×10
690-150	690	650	630	666	195	160	190	160	17	4-Φ7×10
770-150	770	730	710	746	195	160	190	160	17	4-Φ7×10

风机的安装、调试、运行

INSTALLATION, COMMISSIONING, OPERATION

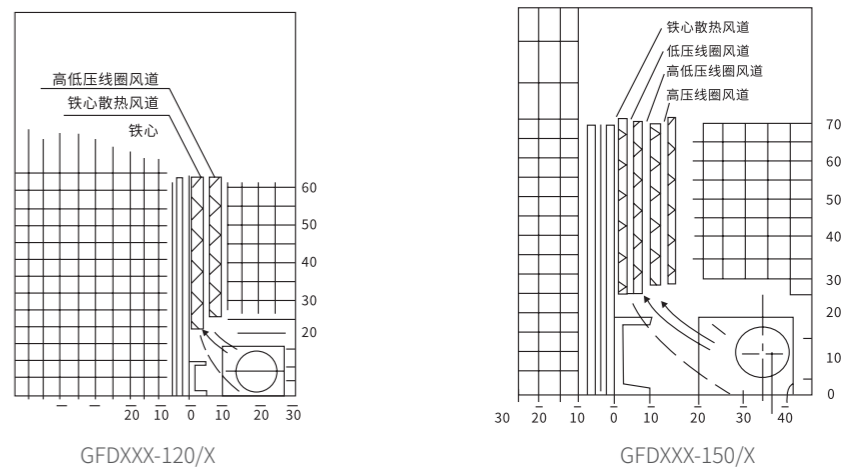
风机安装干式变压器身下两侧

The diagram (T) is for the blower which install teh both under side of dry-type body of transformer



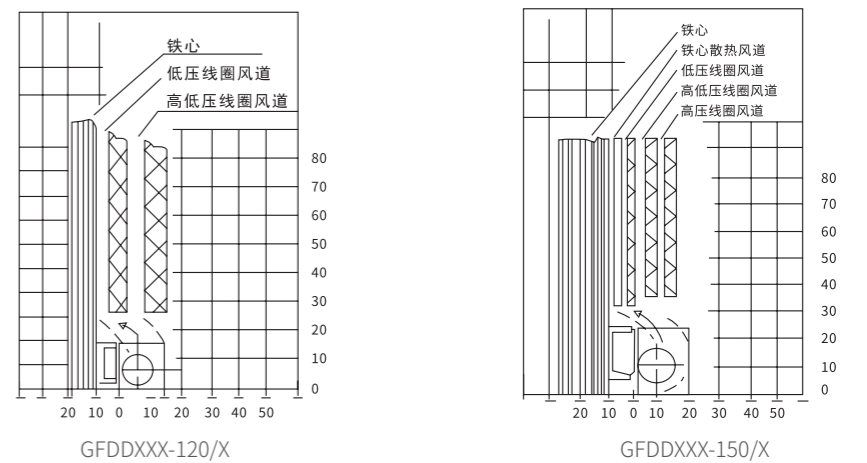
侧吹式风机选取最佳安装位置

The best selection install position for side blower is diagram(two)(three)



顶吹式风机选取最佳安装位置

The best selection install position for top blower is diagram(four)(five)



The power supply voltage and number of phases connected to the fan are consistent with the rated voltage and number of phases of the fan. The fans of the same transformer can be connected to the power supply or controller individually or in parallel. The fan with larger air volume should be equipped with an intermediate relay for control.

After the three-phase fan is initially installed and energized or the external power supply is changed, attention should be paid to whether the rotation direction of the fan meets the requirements of the fan rotation sign.

For fans that have been transported over long distances or kept in warehouses for a long time, the insulation resistance should be greater than 2 megohms before use.

The insulation resistance shall not be less than 0.5 megohm.