

EXPLOSION-PROOF INDUSTRIAL KITCHEN TYPE ROOF EXH. FAN

Rev.01
27-05-2015



GMC REF-552:

Explosion-proof vertical discharge roof exhaust fan. Suitable for industrial kitchens and exhausting flammable or explosive gases.

Application

- Standard exhasuting
- Kitchen exhausting
- Exhausting flammable and explosive gases
- Hazardous Zone 0: Cannot be used.
- Hazardous Zone 1: Ex II 2G c IIB T4
- Hazardous Zone 2: Ex II 3G c IIB T4

Composition

- Outer casing made of seawater resistant AlMg3
- Motor is outside of air stream
- Adjustable motor voltage
- Swing out fan section
- Backward curved impeller
- Motor has a PTC sensor for safety

Order example

- REF-552: Mk.400 E4

400= Size
E= 1x230V
4= 1400rpm



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Air performance data

Model	Qv [m3/h]										Note	
	0Pa	50Pa	100Pa	200Pa	300Pa	500Pa	700Pa	900Pa	1100Pa	1300Pa		
Mk. 315 /250 - 4	2300	2150	1850	1300	-	-	-	-	-	-	-	
315 /250 - 6	1500	1200	650	-	-	-	-	-	-	-	-	
315/250 - 4/6	2300	2150	1850	1300	-	-	-	-	-	-	-	*
400/315 - 4	4700	4500	4250	3600	2950	-	-	-	-	-	-	
400/315 - 6	3100	2750	2200	-	-	-	-	-	-	-	-	
400/315 - 4/6	4700	4500	4250	3600	2950	-	-	-	-	-	-	*
450/400 - 4	6700	6400	6100	5500	4600	2500	-	-	-	-	-	
450/400 - 6	4500	4000	3550	2250	-	-	-	-	-	-	-	
450/400 - 4/6	6700	6400	6100	5500	4600	2500	-	-	-	-	-	*
500/450 - 4	9100	8850	8500	8000	6700	5300	1000	-	-	-	-	
500/450 - 6	6100	5600	5050	3900	1000	-	-	-	-	-	-	
500/450 - 4/6	9100	8850	8500	8000	6700	5300	1000	-	-	-	-	*
560/500 - 4	13300	13000	12500	12000	11000	9000	7000	2500	-	-	-	
560/500 - 6	8700	8100	7500	6200	4200	-	-	-	-	-	-	
560/500 - 4/6	13300	13000	12500	12000	11000	9000	7000	2500	-	-	-	*
630/560 - 4	19300	18750	18500	18000	16650	15250	13000	11000	6500	-	-	
630/560 - 6	12900	12000	11500	10500	8000	3500	-	-	-	-	-	
630/560 - 4/6	19300	18750	18500	18000	16650	15250	13000	11000	6500	-	-	*
710/630 - 4	27500	27000	26500	26000	25000	23000	21500	18000	15000	3000	-	
710/630 - 6	18300	18000	17500	15500	14000	9000	-	-	-	-	-	
710/630 - 4/6	27500	27000	26500	26000	25000	23000	21500	18000	15000	3000	-	*
800/710 - 4	39500	39000	38500	38000	37000	35000	32500	29000	26500	24000	-	
800/710 - 6	26000	25500	24500	22000	21000	11500	11000	-	-	-	-	
800/710 - 4/6	39500	39000	38500	38000	37000	35000	32500	29000	26500	24000	-	*

*Capacity at high speed. For the low speed, the given capacity value must be multiplied by 2/3, static pressure value must be multiplied with 4/9.

SC_T = transformer controller
 η_t = maximum total efficiency
 t_m = maximum air temperature
 t_u = maximum ambient temperature

Dimensions

Model	OD	B	E	H
Mk. 315 /250 - 4	250	500	680	570
315 /250 - 6	250	500	680	570
315/250 - 4/6	250	500	680	570
400/315 - 4	315	560	780	640
400/315 - 6	315	560	780	640
400/315 - 4/6	315	560	780	640
450/400 - 4	400	630	880	690
450/400 - 6	400	630	880	690
450/400 - 4/6	400	630	880	690
500/450 - 4	450	710	980	730
500/450 - 6	450	710	980	730
500/450 - 4/6	450	710	980	730
560/500 - 4	500	800	1100	780
560/500 - 6	500	800	1100	780
560/500 - 4/6	500	800	1100	780
630/560 - 4	560	900	1315	960
630/560 - 6	560	900	1315	960
630/560 - 4/6	560	900	1315	960
710/630 - 4	630	1000	1407	1060
710/630 - 6	630	1000	1407	1060
710/630 - 4/6	630	1000	1407	1060
800/710 - 4	710	1120	1612	1190
800/710 - 6	710	1120	1612	1190
800/710 - 4/6	710	1120	1612	1190

t_o = minimum operating temperature
 Lwa 2 = Casing sound power level
 Lwa 5 = Sound power level @inlet
 Lwa 6 = Sound power level @outlet
 The sound power levels are measured according to DIN 45635 part 2 & 38

