

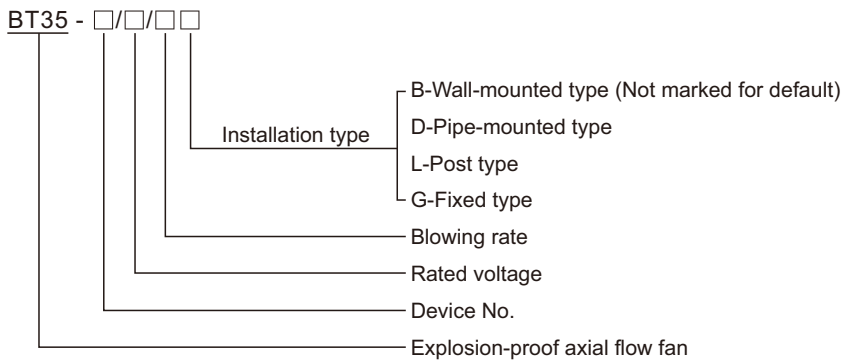


# BT35-Series Explosion-proof Axial Flow Fan

## 1 Application and Features

- Explosion protection -GB
- Application in hazardous area Zone 1 and Zone 2
- The product is composed of explosion-proof motor, fan blade, fan stack, etc.;
- Can be used to ventilation, exhaust, and also install in a long interval of exhaust pipe to improve the pressure in the pipeline;
- Cable wiring.

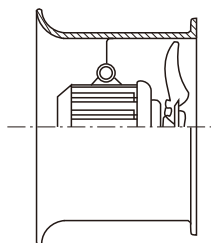
## 2 Formation of Marking



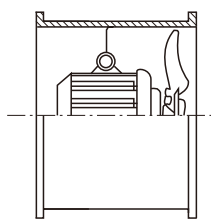
## 3 Technical Parameter

Explosion protection	Ex marking	Ex d IIB T4 Gb
Conformity to standards		GB3836.1, GB3836.2
Material	Fan stack	Steel plate bending, powder coated, industrial gray (RAL7038)
	Fan blade	Aluminum plate
	Outlet screen	Steel wire, powder coated
	Inlet screen	Steel wire, powder coated
Exposed fastener		Stainless steel
Rated voltage		220V AC, 380V AC
Device No.		2.8, 3.15, 3.55, 4, 4.5, 5, 5.6, 6.3, 7.1, 8, 9, 10, 11.2

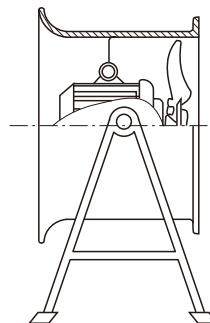
## 4 Installation Method



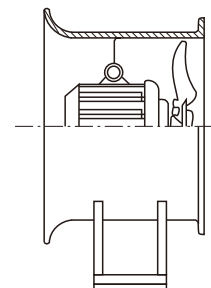
Wall-mounted type (B)



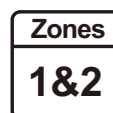
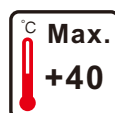
Pipe-mounted type (D)



Post type (L)



Fixed type (G)





# BT35-Series Explosion-proof Axial Flow Fan



## 5 Selection Table

Device No.	Impeller diameter (mm)	Impeller peripheral speed (m/s)	Impeller speed (r/min)	Impeller angle (°)	Blowing rate (m <sup>3</sup> /h)	Total pressure (Pa)	Total pressure efficiency (%)	Motor power (KW)	Cable entries	Available cable outer diameter (mm)
2.8	280	42.5	2900	15	1649	152	0.87	0.18	G3/4	Φ8~Φ14
				20	2167	169	0.88	0.18		
				25	2685	174	0.895	0.18		
				30	2921	186	0.88	0.18		
				35	3202	232	0.86	0.25		
2.8	280	21.5	1450	15	826	38	0.87	0.18		
				20	1086	43	0.88	0.18		
				25	1364	44	0.895	0.18		
				30	1464	48	0.88	0.18		
				35	1605	60	0.86	0.18		
3.15	315	47.5	2900	15	1339	192	0.87	0.18		
				20	3074	214	0.88	0.25		
				25	3810	220	0.895	0.37		
				30	4414	237	0.88	0.37		
				35	4545	294	0.86	0.55		
3.15	315	23.9	1450	15	1169	48	0.87	0.18		
				20	1537	53	0.88	0.18		
				25	1905	55	0.895	0.18		
				30	2072	59	0.88	0.18		
				35	2273	74	0.86	0.18		
3.55	355	53.9	2900	15	3367	241	0.87	0.37		
				20	4426	272	0.88	0.55		
				25	5484	279	0.895	0.55		
				30	5965	300	0.88	0.75		
				35	6542	373	0.86	1.1		
3.55	355	27.0	1450	15	1680	61	0.87	0.18		
				20	2208	68	0.88	0.18		
				25	2737	70	0.895	0.18		
				30	2977	75	0.88	0.18		
				35	3265	93	0.86	0.18		
4	400	60.7	2900	15	4806	310	0.87	0.55		
				20	6316	345	0.88	1.1		
				25	7826	354	0.895	1.1		
				30	8513	380	0.88	1.1		
				35	9336	474	0.86	1.5		
4	400	30.4	1450	15	2406	77	0.87	0.37		
				20	3163	86	0.88	0.37		
				25	3920	88	0.895	0.37		
				30	4263	95	0.88	0.37		
				35	4678	119	0.86	0.37		



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Device No.	Impeller diameter (mm)	Impeller peripheral speed (m/s)	Impeller speed (r/min)	Impeller angle (°)	Blowing rate (m <sup>3</sup> /h)	Total pressure (Pa)	Total pressure efficiency (%)	Motor power (KW)	Cable entries	Available cable outer diameter (mm)
4.5	450	34.2	1450	15	3427	98	0.87	0.18	G3/4	Φ8~Φ14
				20	4504	110	0.88	0.37		
				25	5881	113	0.895	0.37		
				30	6070	121	0.88	0.37		
				35	6658	150	0.86	0.55		
5	500	38.0	1450	15	4700	122	0.87	0.37		
				20	6178	135	0.88	0.37		
				25	7655	138	0.895	0.37		
				30	8832	149	0.88	0.55		
				35	9133	185	0.86	0.75		
5.6	560	42.5	1450	15	6595	151	0.87	0.75		
				20	8667	169	0.88	0.75		
				25	10739	174	0.895	0.75		
				30	11682	186	0.88	1.1		
				35	12812	232	0.86	1.1		
5.6	560	28.1	960	15	4362	67	0.87	0.37		
				20	5730	74	0.88	0.55		
				25	7101	76	0.895	0.55		
				30	7724	81	0.88	0.55		
				35	8471	101	0.86	0.55		
6.3	630	47.8	1450	15	9393	192	0.87	0.75		
				20	12345	214	0.88	1.1		
				25	15297	220	0.895	1.5		
				30	16639	236	0.88	1.5		
				35	18250	294	0.86	2.2		
6.3	630	31.7	960	15	6219	84	0.87	0.55		
				20	8173	94	0.88	0.55		
				25	10128	96	0.895	0.55		
				30	11016	104	0.88	0.75		
				35	12082	128	0.86	0.75		
7.1	710	53.9	1450	15	13444	244	0.87	1.5		
				20	17670	272	0.88	2.2		
				25	21895	279	0.895	2.2		
				30	23815	300	0.88	3		
				35	26120	373	0.86	4		
7.1	710	36.7	960	15	8902	108	0.87	0.75		
				20	11700	120	0.88	0.75		
				25	14498	123	0.895	0.75		
				30	15769	131	0.88	0.75		
				35	17296	164	0.86	1.1		
8	800	60.7	1450	15	19235	310	0.87	2.2	G3/4	Φ8~Φ14
				20	25280	345	0.88	3		
				25	31325	354	0.895	4		
				30	34073	380	0.88	5.5	M30×2	Φ14~Φ25
				35	37070	474	0.86	7.5		



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Device No.	Impeller diameter (mm)	Impeller peripheral speed (m/s)	Impeller speed (r/min)	Impeller angle (°)	Blowing rate (m <sup>3</sup> /h)	Total pressure (Pa)	Total pressure efficiency (%)	Motor power (KW)	Cable entries	Available cable outer diameter (mm)
8	800	40.2	960	15	12377	136	0.87	0.75	G3/4	Φ8~Φ14
				20	16733	151	0.88	1.1		
				25	20735	155	0.895	1.5		
				30	22559	167	0.88	1.5		
				35	24739	208	0.86	2.2		
9	900	45.2	960	15	18132	172	0.87	1.5	M30×2	Φ14~Φ25
				20	23830	191	0.88	2.2		
				25	29529	196	0.895	3		
				30	32119	211	0.88	3		
				35	35227	263	0.86	4		
10	1000	50.3	960	15	24874	213	0.87	2.2	M30×2	Φ14~Φ25
				20	32691	236	0.88	3		
				25	40509	242	0.895	4		
				30	44062	261	0.88	4	M36×2	Φ20~Φ35
				35	48326	324	0.86	7.5		
11.2	1120	56.3	960	15	34944	267	0.87	4	M30×2	Φ14~Φ25
				20	45927	297	0.88	5.5		
				25	56909	304	0.895	7.5	M36×2	Φ20~Φ35
				30	61091	337	0.88	7.5		
				35	67892	407	0.86	11		

## 6 Outline and Installation Dimension

Device No. \ Size (mm)	B	Φ1	Φ2	Φ3	Φ4	Weight (kg)
2.8	275	310	325	285	325	9
3.15	275	338	350	318	362	11
3.55	310	380	390	355	400	17
4	340	440	462	420	464	19
4.5	340	480	497	455	500	20
5	340	550	560	520	566	28
5.6	405	590	610	565	610	39
6.3	405	631	650	613	660	55
7.1	515	735	750	710	760	65
8	515	835	847	810	860	88
9	710	935	948	910	960	118
10	710	1035	1072	1010	1060	148
11.2	710	1145	1182	1110	1170	179

