

## **DOUBLE INLET CENTRIFUGAL FANS** (Forward Curved, Belt Driven) **BAT-T2 Series (Twin Fans on a Single Shaft)**



### **Salient Technical Features :**

Two DIDW wheels are mounted on a single shaft which effectively doubles the air flow capacity without increasing the height. **Ideal for applications with height limitations e.g. ceiling suspended units.**

The **Blower Wheel** is made from high quality rust resistant galvanized sheet steel and has forward curved blades. A large forged steel or die cast aluminium hub with a precisely machined bore and a keyway is fitted to the wheel backplate. Use of precision tooling for the punching and assembling of wheel components results in **extremely low levels of eccentricity and run out**. The wheel is **statically and dynamically balanced** to balance quality grade G 6.3 of ISO 1940 standard.

The **Fan Housing** is also made from high quality rust resistant galvanized sheet steel with the housing wrapper fixed to the side plates using 'Pittsburg Lock'. Side plate profiles are precision cut for proper centering of the Impeller - Shaft assembly and accurate overall fan dimensions. **Aerodynamically shaped inlet venturies form an integral part of the side plates.**

The **Fan Shaft** is manufactured from high quality EN9 carbon steel with keyways at both ends (for pulleys) and the centre (for wheel hub) and is **ground to close tolerance** for precision fit.

The **Wheel Shaft Assembly** is supported at both ends in **very high quality imported pre-greased permanently sealed ball bearings** with an eccentric locking collar. Each bearing sits inside a moulded rubber housing which in turn is mounted on to the fan housing using a set of 4 specially designed die formed epoxy powder coated sheet steel brackets on each side. After assembly, the shaft is coated with a fine layer of anti-corrosion laquor.

**Rectangular Side Frames** made from G.I. sheets are bolted to the Fan Housing. This improves fan rigidity & strength & allows easy mounting of the fan in various orientations. BAT-T2 S fans are provided with mounting feet.

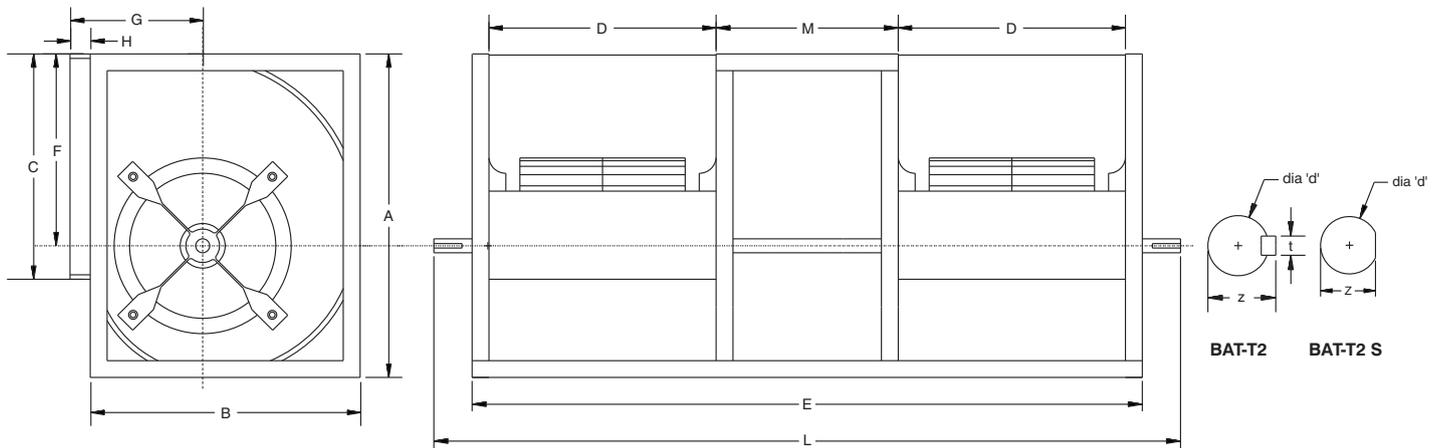
### **“FAN-TA-SIZE” Computerized Optimal Fan Selection Program**

This sophisticated Windows based fan selection program automatically provides the best selection of BLOWTECH fans for a given requirement of air volume and pressure. It gives all the desired operating point parameters such as fan speed, fan power, motor power, outlet velocity, efficiency, etc. in a fraction of a second. No need now for voluminous fan performance data and approximate and laborious extrapolation methods for fan selection and operating point determination.



# BLOWTECH DOUBLE INLET CENTRIFUGAL FANS

## Dimensions - BAT-T2 Series



Model	A	B	C	D	E	F	G	H	L	M	d	t	z
7x7-T2 S	330	316	208	232	698	186	153	-	808	184	20	-	19
9x7-T2 S	390	380	262	232	698	215	185	-	808	184	20	-	19
9x9-T2 S	390	380	262	298	890	215	185	-	1000	244	20	-	19
10x8-T2 S	446	425	289	265	794	249	203	-	904	214	20	-	19
10x10-T2 S	446	425	289	331	976	249	203	-	1086	264	20	-	19
12x9-T2	525	455	341	309	917	294	230	38	1066	239	25	8	28
12x12-T2	525	455	341	395	1169	294	230	38	1320	319	25	8	28
15x11-T2	620	538	404	373	1118	342	264	36	1270	292	25	8	28
15x15-T2	620	538	404	471	1408	342	264	36	1560	386	25	8	28
18x13-T2	745	650	478	430	1266	415	314	36	1425	326	25	8	28
18x18-T2	745	650	478	557	1651	415	314	36	1805	457	25	8	28

Note – Fan sizes 7x7 to 10x10 are provided with mounting feet (not rectangular side frames).

*All dimensions are in mm*

## PERFORMANCE DATA

Normal Performance Range			Typical Operating Point				
Model	CFM	Ps (mm)	CFM	Out. Vel. (m/s)	Ps (mm)	RPM	Shaft Power (hp)
7x7-T2 S	1200-2200	15-80	2000	9.8	50	1995	1.33
9x7-T2 S	1500-2800	15-100	2500	9.7	50	1551	1.36
9x9-T2 S	2000-3500	15-75	3200	9.7	50	1597	1.73
10x8-T2 S	2000-3500	15-95	3200	9.9	50	1391	1.64
10x10-T2 S	2400-4400	15-80	4000	9.9	50	1393	2.15
12x9-T2	2600-4800	20-90	4400	9.9	50	1199	2.25
12x12-T2	3400-6200	20-70	5600	9.8	50	1227	2.97
15x11-T2	4000-7000	20-90	6400	10	50	956	3.31
15x15-T2	5000-8800	20-60	8000	9.9	50	1016	4.25
18x13-T2	5200-9400	20-90	8600	9.9	50	806	4.30
18x18-T2	6800-12200	20-60	11200	9.9	50	835	5.68

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