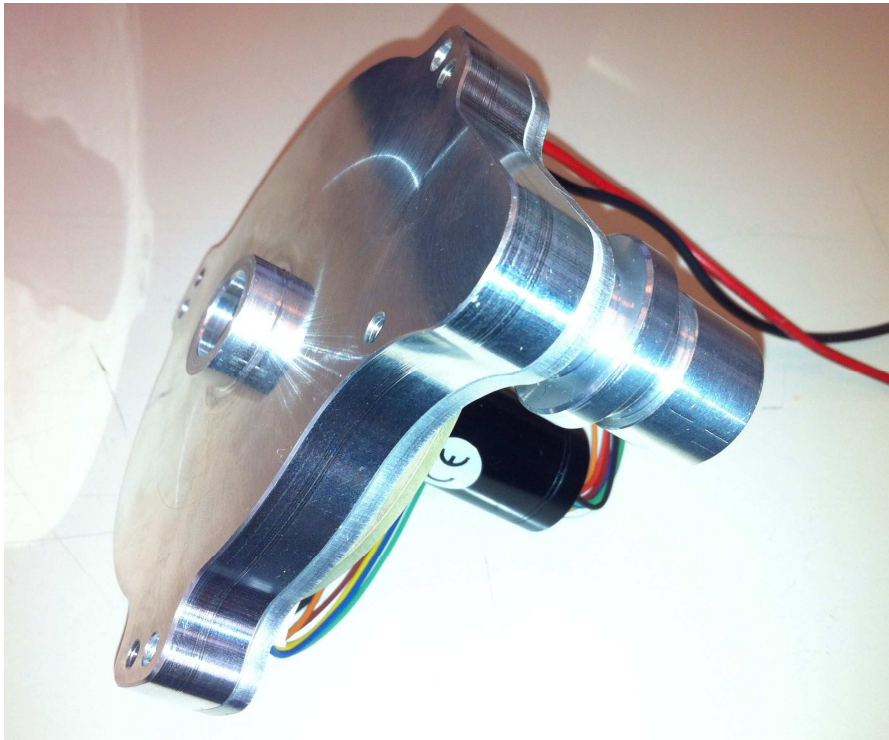


## BLOWER EA T100



The **EA-T100** is an industrial style blower designed for portable flow measurement instruments where the high performance, low power consumption and Rugged construction are needed.

Fully realized in aluminium, the blower is designed for the most compact size as possible and the high performance are due to the use of a special 43000 rpm brushless motor.

The blower is available with or without electronic controller embedded.

With the electronic controller onboard, the blower can be powered directly from 6 to 15 volt where the voltage value permit the setting of the motor speed and the relative flow.

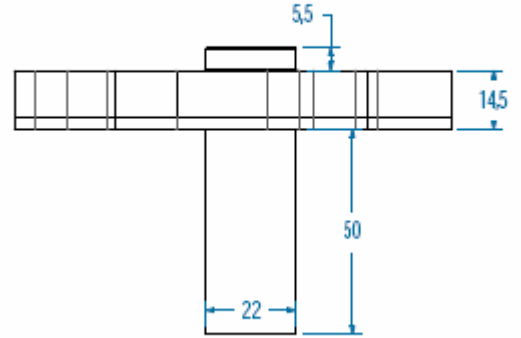
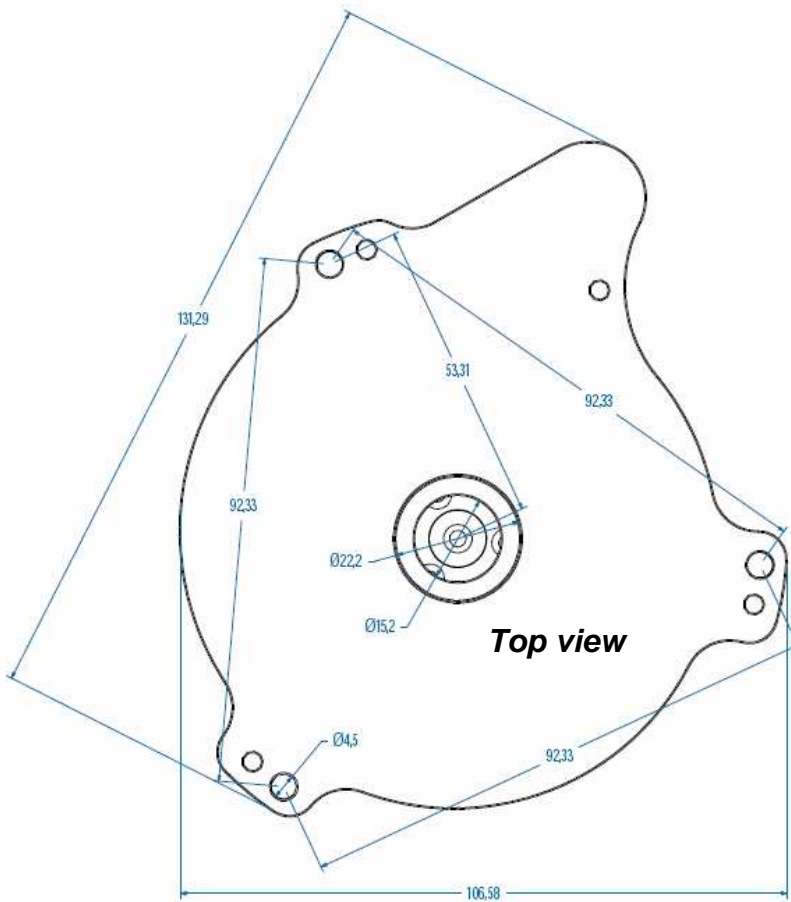
Without the controller the blower is intended to be used with an external controller using a standard 6 wire driver (3 wire motor phases and 3 wire optical sensor encoder).

The construction of the blower permit several customization to adapt the unit at the various engineer needed. The blower output nozzle is selecting from two standard models or using a self designed threaded nozzle.

*The blower order codes are:*

- |                   |   |
|-------------------|---|
| - EA T100_WEC15_A | <b>Blower with controller, 6-15V power supply, Nozzle Type A</b>  |
| - EA T100_WEC15_B | <b>Blower with controller, 6-15V power supply, Nozzle Type B</b>  |
| - EA T100_WOC24_A | <b>Blower without controller, 24V power supply, Nozzle Type A</b> |
| - EA T100_WOC24_B | <b>Blower without controller, 24V power supply, Nozzle Type B</b> |

**MECHANICAL DRAWING**



**BLOWER EAT100\_WEC15\_B  
Bottom view**

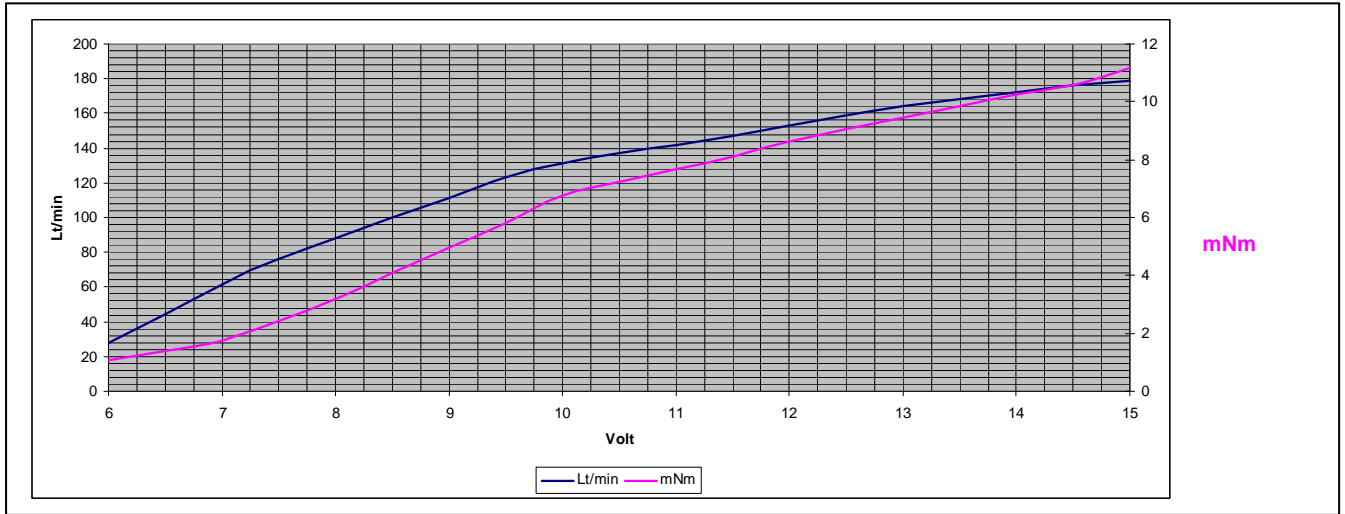


**STANDARD NOZZLES  
TYPE A                      TYPE B**

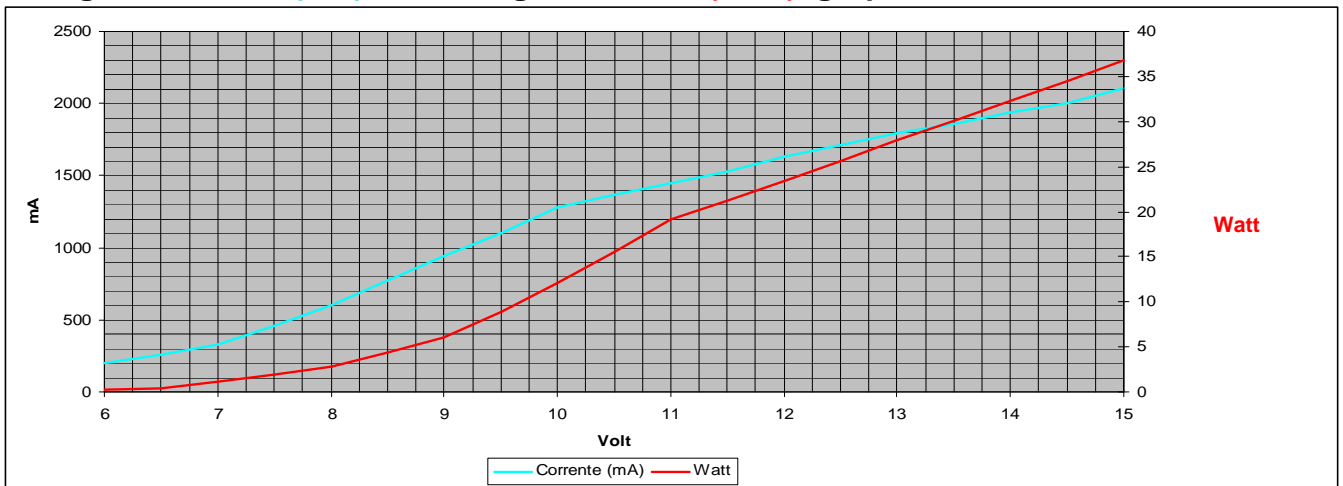


## EA-T100WEC15\_X DATA SHEET

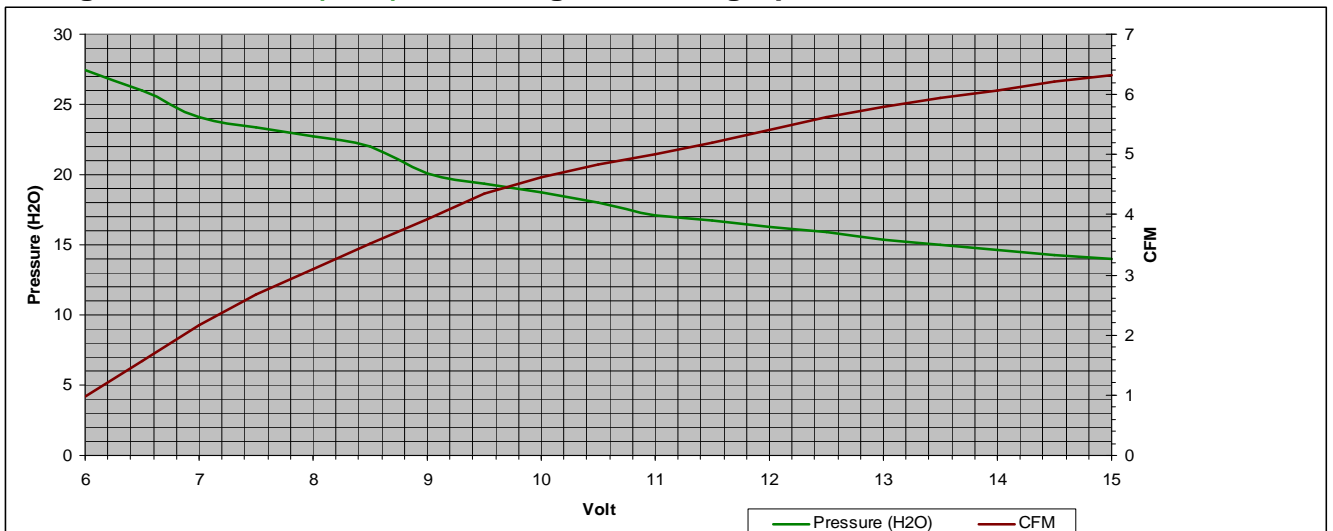
### Voltage vs Flow (Lt/min) & Voltage vs Torque (mNm) graphics



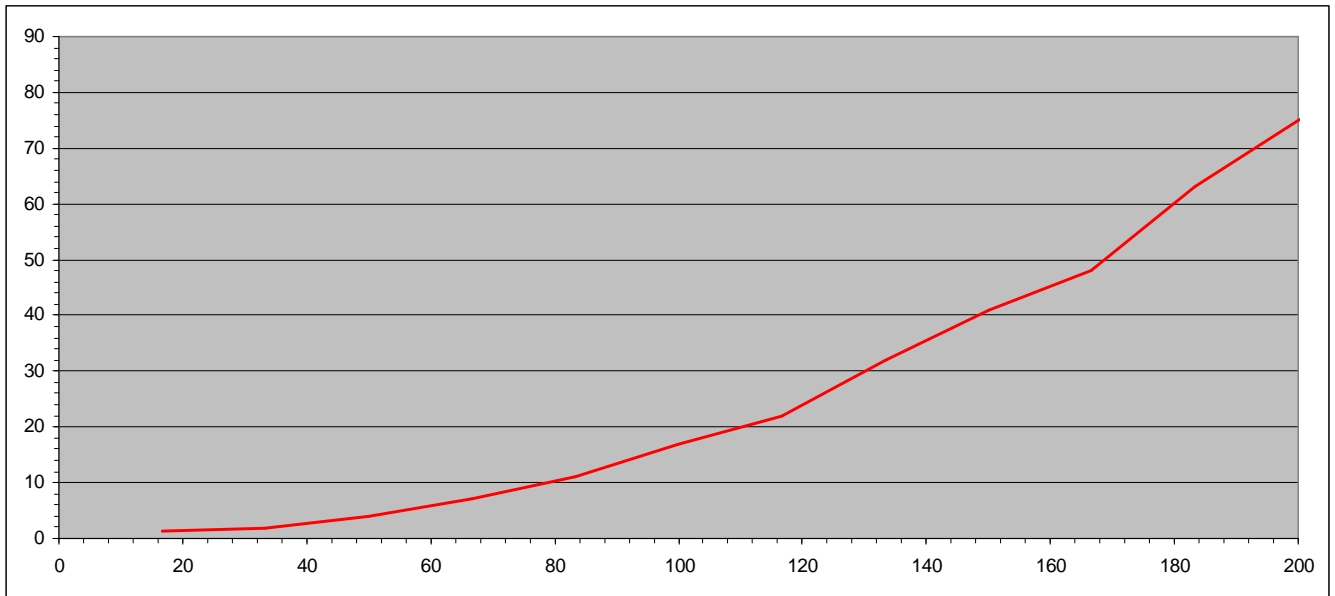
### Voltage vs Current (mA) & Voltage vs Power (Watt) graphics



### Voltage vs Pressure (H2O) & Voltage vs CFM graphics



**Voltage vs mbar graphics**



**GENERAL DATA TABLE**

Voltage (V)	Flow (Lt/min)	Flow (CFM)	Current (mA)	Speed (rpm)	Torque (mNm)	Power (Watt)	Pressure (mbar)
6	27,5	0,97075	200	10824	1,0582	0,2797311	1,8
6,5	44,5	1,57085	260	11726	1,37566	0,4495678	3,98
7	61,5	2,17095	330	12628	1,74603	1,1189243	6,8
7,5	76	2,6828	460	13530	2,43386	1,9531224	8
8	88	3,1064	600	14432	3,1746	2,8772339	11,2
8,5	100	3,53	770	15334	4,07407	4,3658029	17
9	111	3,9183	940	16236	4,97354	5,9942374	22
9,5	123	4,3419	1100	17138	5,8201	8,9164281	29,6
10	131	4,6243	1280	18040	6,77248	12,088379	32
10,5	137	4,8361	1370	18942	7,24867	15,510089	32,5
11	142	5,0126	1450	19844	7,67195	19,18156	40
11,5	147	5,1891	1530	20746	8,09523	21,229591	41,5
12	153	5,4009	1630	21648	8,62433	23,377526	45,5
12,5	159	5,6127	1710	22550	9,04761	25,625365	47
13	164	5,7892	1790	23452	9,47089	27,973108	48,5
13,5	168	5,9304	1860	24354	9,84126	30,058603	50
14	172	6,0716	1940	25256	10,26454	32,219026	57
14,5	176	6,2128	2000	26158	10,582	34,454377	60
15	179	6,3187	2110	27060	11,16401	36,764656	62,5

**MAX FLOW RATE = 230 Lt/min**  
**MAX PRESSURE = 85 mbar**  
**MAX SPEED = 43000 rpm**  
**MAX POWER = 91 Watt**  
**MOTOR MTBF = 33.000 Hours @ 20000 rpm**