

AXITUB PIROS WINDER 4-800T-6 3 kW

MODEL **THW40800T60300**
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In-line fan

Long cased axial in-line fan. Constructed with aluminium impellers fitted with Multiflow Novovent System (M.N.S.) that allows multiple pitch angle to achieve better performance and Serrated Novovent System (S.N.C.), proprietary patented technology that improves impeller capabilities such as performance, efficiency and sound reduction. AXITUB PIROS WINDER (F400) serie is constructed under a tough casing with a adjustable bench that allows a wide range of motors to be installed. In-line axial fan certified under EN-12101-3 for security exhaust applications.

CHARACTERISTICS

- Fan certified under EN 12101-3 inside risk area with classification, resistance to fire F400(120'), file number 0370-CPR-1553.

IMPELLER

- Aluminium impellers, fitted with Multiflow Novovent System (M.N.S.) and Serrated Novovent Concept (S.N.C.).
- Ballancing quality grade Q2.5.
- Standard Airflow: Motor to impeller.

CASING

- Long casing size.
- Galvanized metal sheet frame. With inspection door on long cased units.

MOTOR

- Three phase motor.
- TEFC construction motor.
- IP55 protection.
- Electrical isolation class H.
- IE2 or IE3 efficiency.
- Integrated PTC on sizes above IEC160.
- Certified under EN-12101-3.
- Working services S1 (continuous use) and S2 (emergency use).

OPTIONS:

(to be added to description if requiered)
 i.e. AXITUB xxxxxxxxxxxx Q1 CM I304

IMPELLER

- Airflow: impeller - motor. (MI)
- Impeller ballancing quality grade Q1. (Q1)

CASING

- Medium casing (CM) or Short casing (CS).
- Hot dip galvanized casing. (HDG)
- Stainless steel AISI 304 casing and base plate. (I304)
- Stainless steel AISI 316 casing and base plate. (I316)
- Painted casing. (P)
- Cataphoresis protection casing and impeller. (KF)

MOTOR

- Different voltages. 50 or 60Hz frequency.
- 2 speed motors.



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PRODUCT TECHNICAL DETAILS

Max Airflow	29.644,74	m3/h
Max St Pressure	624,47	Pa
Diameter	800	mm
Hub	270,00	
Hub ratio	0,3	
Pitch angle	19	°
Blade number	6	
Ballancing	Q2.5 DYNAMICALLY	
Impeller material	Al-2560	
Casing material	Galvanized steel DX51D-Z	
Approx weight	85	kg

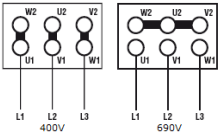
D125/2009 ECODESIGN VALUES, ACCORDING TO D327/2011, AT IT'S MAXIMUM EFFICIENCY POINT

Airflow	4,95	m3/s
Pressure	305,85	Pa
Electrical Power	2.841,41	W
η fan	53,27	%
η TARGET 2015	36,53	%
N'	58,36	
N	40,00	
C.M.	C	
C.E.	STATIC	
S.R.	1,00	
V.S.D.	NO	

MOTOR TECHNICAL INFORMATION

Mechanical Power	3,00	kW
Power supply	400/690V/~III/50Hz	
Rated voltage	400/690	V
Pole	4	
Rated speed	1455	rpm
Rated current	6/3,48	A
Rated torque	19,69	Nm
Breakdown torque	61,04	Nm
Locked rotor torque	45,29	Nm
Locked/Rated current	7,10	

Design	N
Insulation class	H
Service factor	1,15
Duty cycle	S1 + S2
Max ambient temp	45,00 °C
Max altitude	1.000,00 m
Motor size	112M
Motor shaft	28 mm
Efficiency	89,10 %



NOVOVENT reserves the right of change any design (including drawings, materials and specifications) and is the sole owner of the software development, not accepting mistakes that could happen because of a faulty installation or based on a non updated version of software. Information given on this data sheet is for this specific fan being highly recommended to refer and follow the project requirements and instructions. This data sheet has been printed on 25/03/2018 using software version 2017. Sound data are given under laboratory conditions and may differ from operation and mounting conditions. Use this sound data as a reference only. Drawings are for dimensional purposes only. Start currents are DOL for motors power below 4kW and above are Star Delta.

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PRODUCT DUTY POINT HIGH SPEED

Temperature	20 °C
Height over sea level	0 m
Air density	1,2046 kg/m3
Airflow	29.644,74 m3/h
Static Pressure	1,18 Pa
Dynamic Pressure	161,65 Pa
Dynamic Pressure	162,83 Pa
Shaft Power	2.242,60 W
Thrust	0,00 N
Service factor	1,47
MAX work. temperature	55 °C

TECHNICAL REQUIRED SPECIFICATIONS

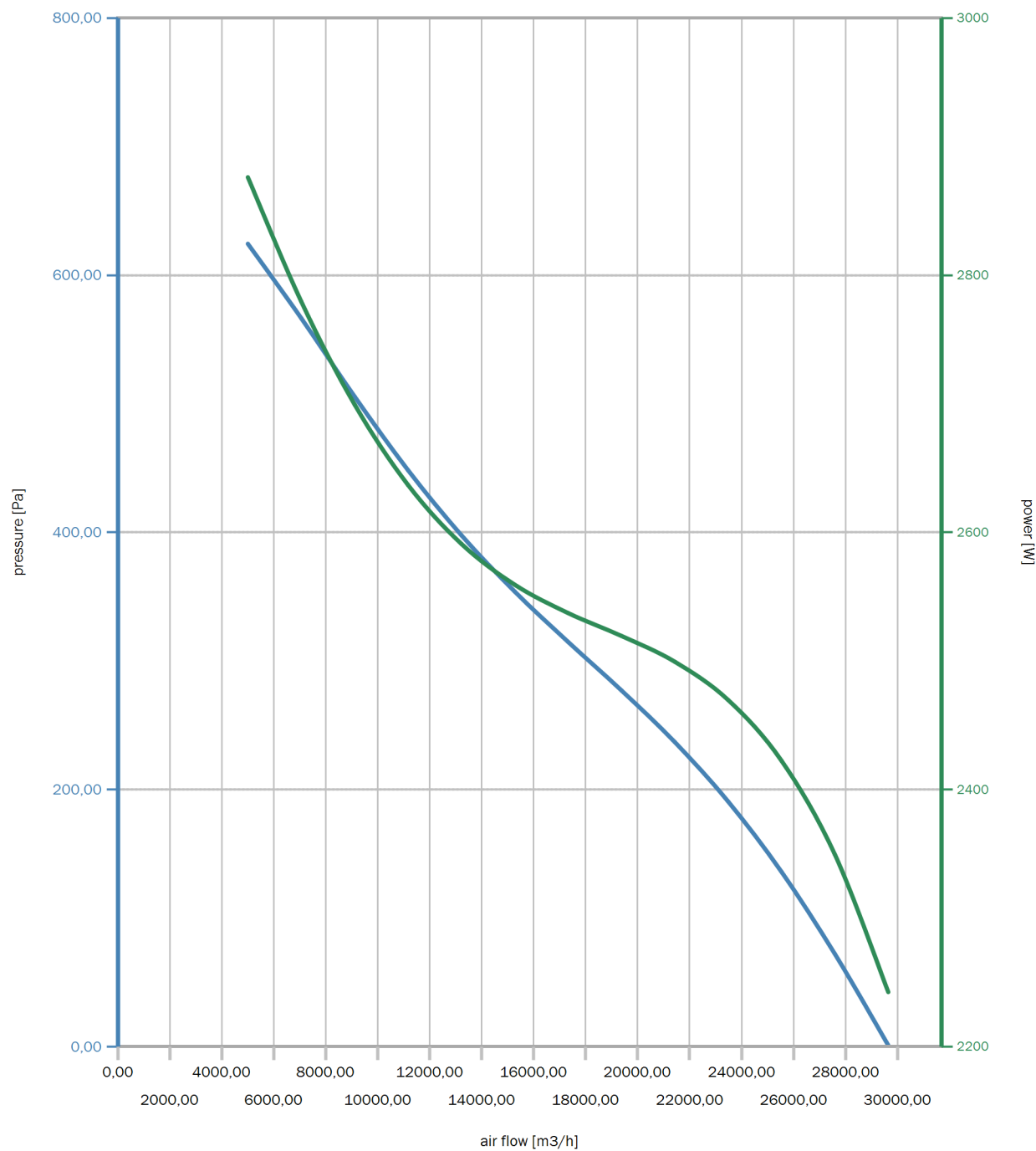
Temperature	20 °C
Height over sea level	0 m
Air density	1,2046 kg/m3
Required Airflow	0,00 m3/h
Required Pressure	0,00 Pa

		octave band (Hz)								
		63	125	250	500	1000	2000	4000	8000	
Sound Power Level	93,0 db(A)	63,3	75,3	85,2	88,6	87,9	82,5	80,0	69,7	
Sound Pressure Level at 3m	75,5 db(A)	45,8	57,7	67,7	71,1	70,4	64,9	62,5	52,1	

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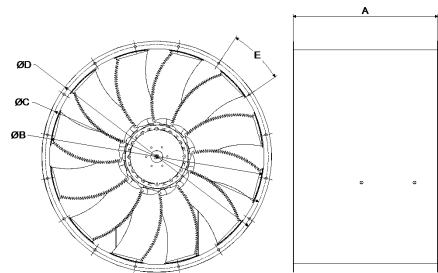
PRODUCT PERFORMANCE
(airflow vs pressure & airflow vs power related to normal conditions T20°C and 1.2046kg/m3 air density)



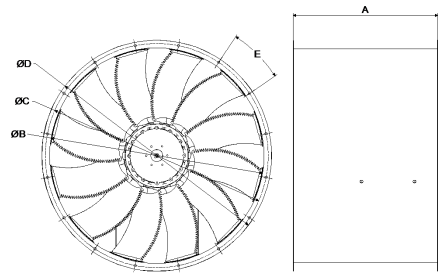
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PRODUCT DIMENSIONS



PRODUCT DIMENSIONS



CL

A	B	C	D	E
600	807	860	900	13x22,5
F	G	H	I	J
0	0	0	0	0
K	L	M	N	
0	0	0	0	

CL

A	B	C	D	E
600	807	860	900	13x22,5
F	G	H	I	J
0	0	0	0	0
K	L	M	N	
0	0	0	0	

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ACCESSORIES



OOTARP800 RP 800



OOTACA800 CA 800



OOTAJN800 JN 800



SB00800 SB 800



SL00800 SL 800



SLN0800 SLN 800



VMR VARMATIC



VMR STOP



VMR TP



CP000 CABLE PIROS