

-- TECHNICAL SPECIFICATION --			
SPECIFICATION NUMBER: 1TDN6_TSREV1.DOC	AUTHOR:	TITLE: ENG TECH	REL. DATE: 4/24/07
GGS MODEL NUMBER(s): 1TDN6	DESCRIPTION: PSC Blower	REVISION #: 1	REV. DATE: 8-28-07

1.0 BRAND:	Dayton
2.0 PRODUCT DESCRIPTION:	
1TDN6	1/125 HP, 115V PSC blower

3.0 PRODUCT PHOTO(S):



4.0 PRODUCT REQUIREMENTS:

4.1 Nameplate

Dayton [®]	Motor	UL [®] US
Mfg. Model : MG0822006171010		E47479
HP: 1/125 RPM: 2700/3080	Lead Connections	
VOLTS: 115V INS CL: B	Disconnect Power Before Making Any	
Hz: 50/60Hz AMB: 40°C	Electrical Connections	
AMPS: 0.22/0.23	WHITE ——— LINE BLACK ——— LINE GREY ——— CAPACITOR BROWN ——— CAPACITOR	
Motor Safeguard; Auto (Read Warning Label)		
BRG; Permanently Lubricated ball, Relubrication Not Required		
Mfd for/Fab,para/Fab,pour Dayton Electric Mfg.Co,Nlles,IL 60714 USA		
Made In China/Hecho en China/Fab.aux China		

Dayton [®]	Blower	HP: 1/125 CFM: 51@Free Air 60Hz
MODEL NO. 1TDN6		VOLTS: 115V RPM: 2700/3080
		Hz: 50/60 AMPS: 0.22/0.23
Manufactured for Dayton Electric Mfg. Co., Nlles, IL 60714 USA		
Made In China		

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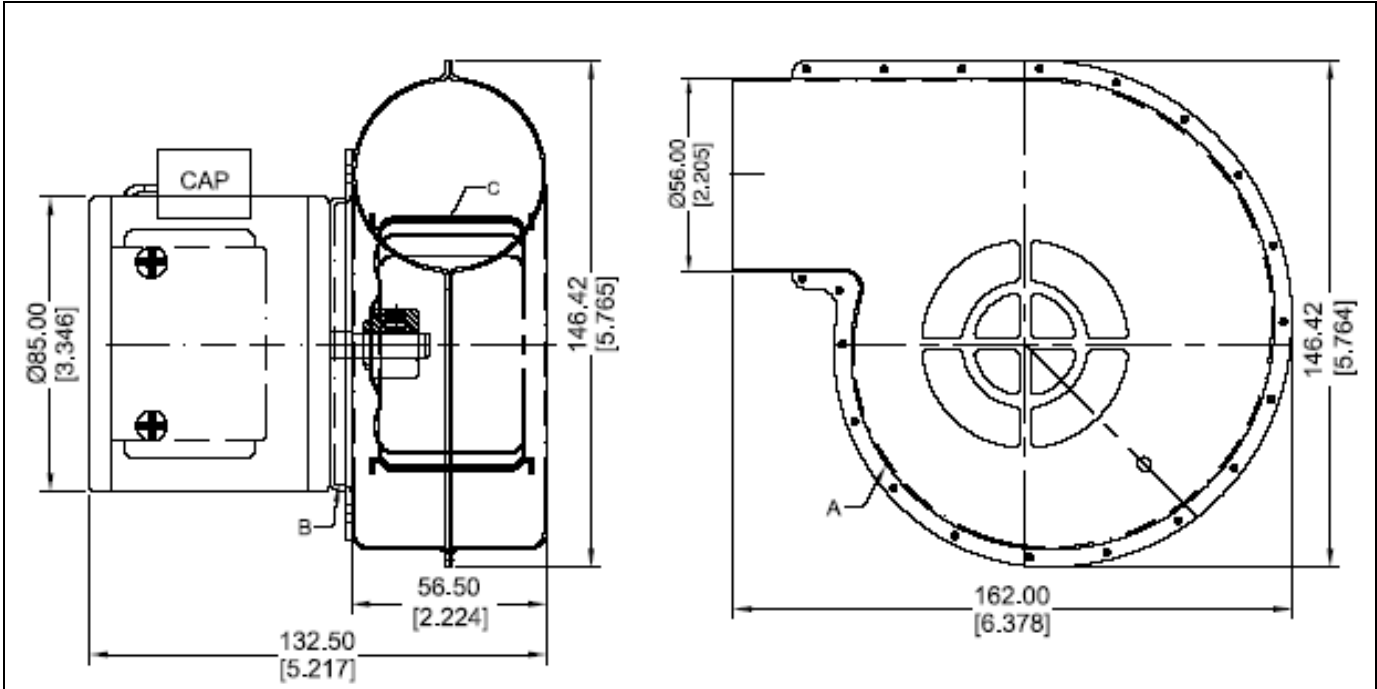
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4.2 Features & Performance	Requirement
Blower/Housing	
Old SKU #	4C441
New SKU #	1TDN6
Blower Wheel Diameter [in]	2 31/32
Blower Wheel Width [in]	1 7/8
No. of blades for blower wheel	22
Inlet Diameter [in]	2 3/8
Outlet Diameter [in]	2 1/8
Blower Housing Depth [in]	See drawings below
Overall blower dimension [in] Length x Height x Depth	See drawings below
Blower bore ID [mm]	8
Maximum Allowable Vibration	2.0 mm/s
Performance Curve and Data	See Performance curve and data below
Motor	
Motor Type	PSC
Bearing Type	Permanently lubricated ball
Motor performance rated	Class B
Motor insulation	Class F
Motor protection	Thermally protected , Auto reset, 135 °C rating on the protector
Housing Material	Rolled Steel
Housing Enclosure	Totally enclosed
Capacitor rating	1.0 mfd ± 5%, 250VAC
End shields/End bells	
Material	Cast Aluminum
Shaft End design/Enclosure	Open Dripproof
Opposite Shaft End Design/Enclosure	Open Dripproof

Terminal Box	
Dimension [in] Length x Width x Depth	2 5/16 x 1 13/16 x 1 3/16
No. of conduit holes	2
Conduit hole size [in dia.]	7/8
Ground screw installed inside the terminal box with ground label sticker	Yes
Avg length of motor leads [in]	13.0 (±1.0")
Terminal box position with respect to blower outlet facing the motor +/- 1 hour	At 3 o'clock

Drawing Dimensions

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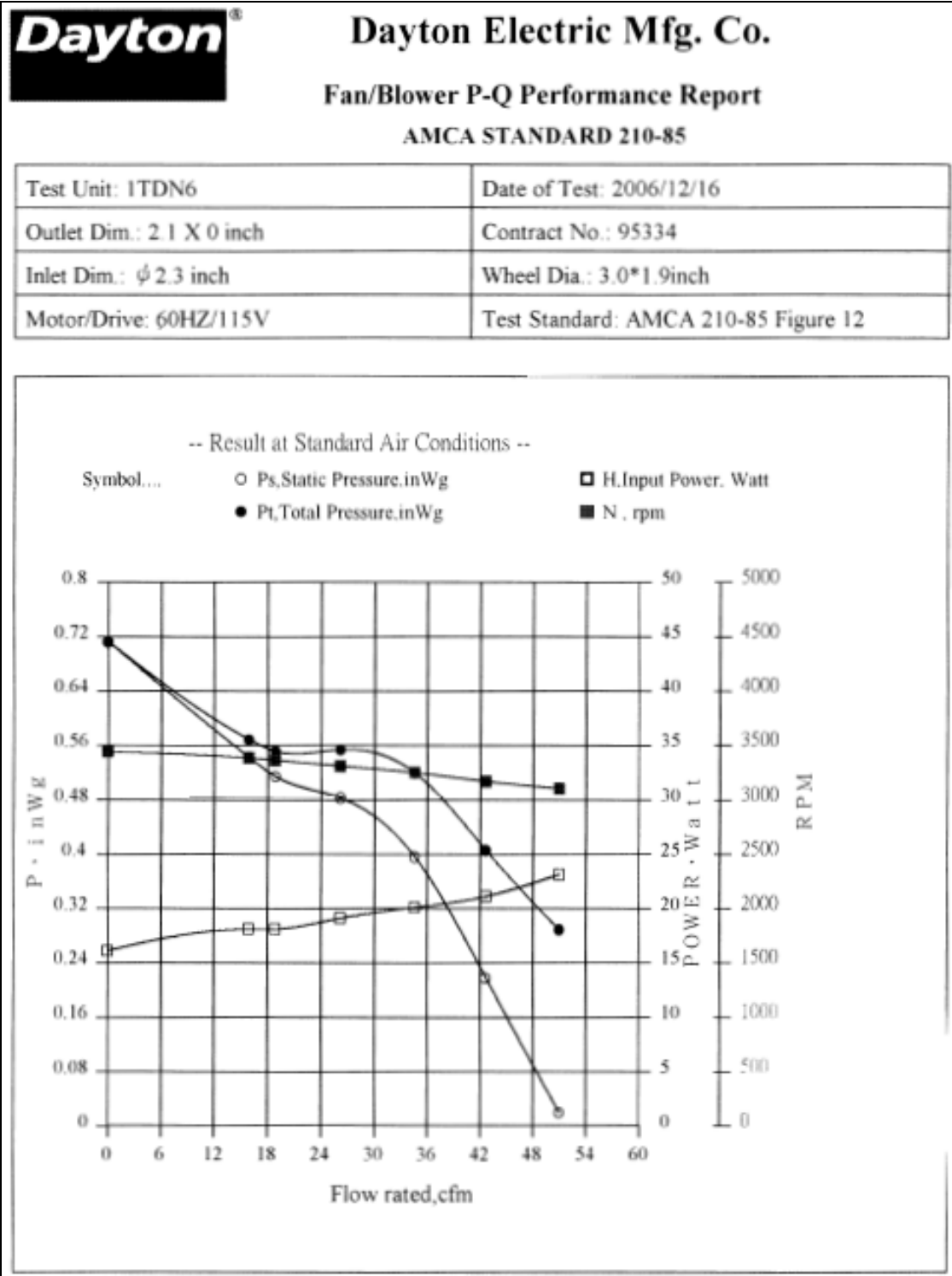


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Performance Curve and Data



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Dayton Electric Mfg. Co.
Fan/Blower P-Q Performance Report
AMCA STANDARD 210-85

Test Unit: 1TDN6	Date of Test: 2006/12/16
Outlet Dim.: 2.1 X 0 inch	Contract No.: 95334
Inlet Dim.: ϕ 2.3 inch	Wheel Dia.: 3.0*1.9inch
Motor/Drive: 60HZ/115V	Test Standard: AMCA 210-85 Figure 12

State	Item	P 1	P 2	P 3	P 4	P 5	P 6	P 7
Results at Test Conditions	Ps7 , mmAq	0.50	5.50	10.00	12.20	13.00	13.70	18.00
	Ps5 , mmAq	37.00	26.00	17.20	39.00	20.50	14.60	19.00
	Δ P , mmAq	1.00	6.50	11.00	13.00	14.00	14.00	19.00
	Td5 , $^{\circ}$ C	18.3	18.3	18.3	18.3	18.3	18.3	18.3
	Tdo , $^{\circ}$ C	18.6	18.6	18.6	18.6	18.6	18.6	18.6
	Two , $^{\circ}$ C	16.8	16.8	16.8	16.8	16.8	16.8	16.8
	Pbo , mmHg	756.0	756.0	756.0	756.0	756.0	756.0	756.0
	Voltage	115.0	115.0	115.0	115.0	115.0	115.0	115.0
	Amp	0.200	0.200	0.190	0.180	0.180	0.170	0.170
	Power , Watt	23.00	21.00	20.00	19.00	18.00	18.00	16.00
	Nozzle(L)	00000	00000	00000	00000	00000	00000	00000
	Nozzle(R)	00011	00011	00011	00010	00010	00010	00000
	RPM	3105	3171	3251	3311	3363	3384	3438
Results at Standard Conditions	Qs , cfm	51.00	42.67	34.61	26.20	18.92	15.93	0.000
	Ps , inWg	0.02	0.22	0.40	0.48	0.51	0.54	0.71
	Pt , inWg	0.29	0.41	0.52	0.55	0.55	0.57	0.71
	Power , Watt	23.11	21.10	20.10	19.09	18.09	18.09	16.08
	Eff. $\langle \eta_s \rangle$ %	0.51	5.16	7.98	7.76	6.30	5.59	0.00
	Eff. $\langle \eta_t \rangle$ %	7.45	9.61	10.48	8.90	6.76	5.87	
Noise dBA								

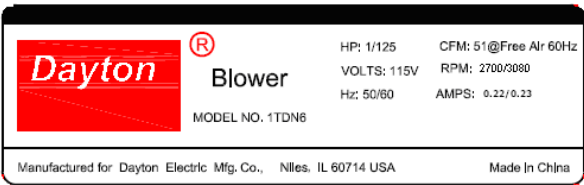

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4.3 Materials & Construction	Requirement
Blower/Motor Housing	High quality steel
Blower Wheel	Galvanized steel
End bells	Cast Aluminum
Motor shaft	Stainless steel
Manufacturing tolerance	Overall blower dimension: +1/16" Maximum Outlet Diameter : + 1/16" / - 0.00" Blower housing : +1/16" Maximum

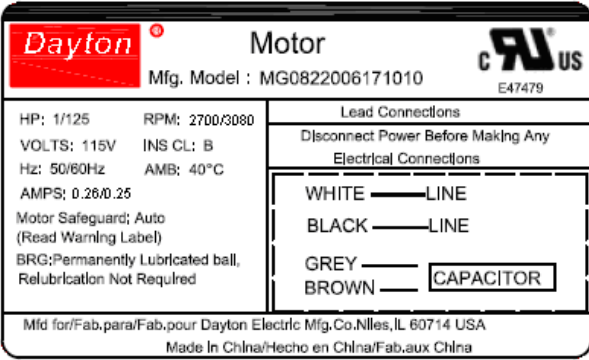

4.4 Finish / Color	Requirement
All Surface Finishes	a) Surface finishes must be uniform and continuous. The surface finish must not exhibit any visual defects such as blisters, rust, corrosion, scratches, peeling, bubbles, and/or cracking. b) All exposed surfaces must be free of burrs and sharp edges. c) All applied finishes must adhere to the surface and show no signs of delamination or peeling.
Color	Dayton Gray
Motor lead color	1 black , 1 white

4.5 Labels or Printing Applied to Product	Requirement
Appearance of all Labels and/or Printing	All labels must be applied straight and even without any air-bubbles or creases. The labels must adhere uniformly to the surface. Any surface printing must be permanent and legible without pinholes, smearing, or other such defects that would render the print unreadable.
Bar Code Label	See Section 8.0
	<ul style="list-style-type: none"> Applied blower nameplate label on the blower housing of the motor side and must follow Dayton Graphic Identity Standards Manual. The Dayton logo must be red See picture below 

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 <p>Dayton Motor Mfg. Model : MG0822006171010 E47479</p> <p>HP: 1/125 RPM: 2700/3000 VOLTS: 115V INS CL: B Hz: 50/60Hz AMB: 40°C AMPS: 0.26/0.25</p> <p>Motor Safeguard; Auto (Read Warning Label) BRG; Permanently Lubricated ball, Relubrication Not Required</p> <p>Mfd for/Fab. para/Fab. pour Dayton Electric Mfg. Co. Niles, IL 60714 USA Made in China/Hecho en China/Fab. aux China</p> <p>Lead Connections Disconnect Power Before Making Any Electrical Connections</p> <p>WHITE — LINE BLACK — LINE GREY — CAPACITOR BROWN — CAPACITOR</p>	<ul style="list-style-type: none"> Applied motor nameplate label on side of motor. Nameplate will be position close to the conduit box with the black stripe on the top of the nameplate adjacent to the conduit box.
 <p>WARNING THERMAL PROTECTOR - AUTOMATIC RESET Thermally Protected automatic reset. Blower motor will restart without warning after protector trips. Do not install motor on equipment where auto start-up could cause injury.</p> <p>Warning: Advertisencia: Avertissement: Read all operating instructions—improper installation of unit may be hazardous/lea todas las instrucciones de operación—La instalación incorrecta de la unidad puede ser peligrosa/Lire toutes les instructions de fonctionnement—Une mauvaise installation de l'unité peut être dangereuse.</p>	<p>Warning Label – Adhered securely on blower housing next to the blower nameplate. See picture above.</p>

5.0 ACCESSORIES to be INCLUDED with PRODUCT:

Description	Quantity / Notes
OIPM (instruction manual)	1 per unit

6.0 COMPLIANCE and CERTIFICATION:

Agency	Requirement
European Union Restriction on use of Hazardous Materials (RoHS)	Must meet Directives 2002/95/EC; 2003/11/EC (If applicable)
California Proposition 65	Product must comply with California Proposition 65. Supplier must notify GGS if product contains any materials listed under CA Prop 65.
UL/cUL Component Recognition	Must be UL and cUL
Thermal-device-protected Motors - Component	Must be UL and cUL

7.0 BAR CODES:

7.1 Bar Code Labels Note: The bar code format must meet the requirements described in Section 2.5 of the GGS *Supplier Handbook*.

Bar Code Label for: ↓	Must be Human Readable as ↓	Must Machine Scan as ↓	Placement of Label
Master (Sell) Pack	(1) 1TDN6	1 1TDN6	<ul style="list-style-type: none"> See Section 8.0 <i>CARTON MARKINGS</i>

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7.2 Bar Code Format Requirements:

- A). All Bar Codes must meet the requirements described in Section 2.5 of the *GGs Supplier Handbook*.
- B). If the GGS Model Number contains a suffix, the suffix must visually appear in the human readable area only and must not machine scan. Example: (8) 1A234B would machine scan as 8 1A234.
- C). There must be **only one** space between the quantity () and the GGS Model Number. Examples: 100 1A234; 8 1A234
- D). All bar code labels **must be approved by GGS prior to the first shipment**.

8.0 MARKINGS and LABELS:

8.1 Carton Markings & Labels for the:	Note: refer to Sections 2.6 through 2.9 of the <i>GGs Supplier Handbook</i> for general bar code label information.	
	Item:	Requirement:
DAYTON® Master/Sell Pack	DAYTON® Label	<ul style="list-style-type: none"> • The Dayton label must contain the bar code data in Section 7.1, the country of origin (where it was made), the wording <i>Manufactured for Dayton Electric Mfg. Co., Niles, IL 60714 U.S.A.</i> and product information as shown in Picture 1 below. • One DAYTON® label is to be applied to the upper right hand corner on <u>one side</u> of the carton as shown in Picture 2 below.
	DAYTON® Box Printing	<ul style="list-style-type: none"> • The box must be printed on two sides with the graphics as shown in Picture 2 below.



Picture 1

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9.0 PACKAGING:

9.1 Quantity in each Package Type	SKU	Master Pack	Sell (Unit) Pack
Each Master Pack will contain:	1TDN6		1

9.2 Package Type, Size and Weight:	SKU	Master (Sell) Pack
Type (also see 9.3 below):	All	Corrugated
Length (inches; +/- 5.0%):	1TDN6	7.5
Width (inches; +/- 5.0%):	1TDN6	7.5
Height (inches; +/- 5.0%):	1TDN6	8.0
Gross Weight (US Pounds; +/- 5.0%):	1TDN6	4.2

9.3 Special Packaging Requirements:	
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9.4 General Packaging Requirements:	<ul style="list-style-type: none"> Refer to the <i>GGs Supplier Handbook</i> Section 2.2
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9.5 Skid / Pallet/ Understructure Requirements:	<ul style="list-style-type: none"> Refer to the <i>GGs Supplier Handbook</i> Sections 2.2 and 5.2
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9.6 Packaging Ship Test Requirements:	<ul style="list-style-type: none"> a) All products must be securely packaged in such a manner as to pass the ISTA 1A or 1B (refer to www.ista.org) shock/drop test or other GGS Engineering defined tests as outlined in this specification. These tests simulate repeated product handling and shipping by sea, air, rail and truck. b) The product must be packaged and protected as necessary to prevent any shipping damage that may be incurred by abrasion, corrosion, humidity, vibration and/or shock. c) Upon receipt at GGS, all packaging must be intact and all product components must remain functional and firmly attached to the product as when the unit was originally built. There shall be no evidence of breakage, scratches, burnishing, rust, corrosion and/or dents.
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9.7 Packaging Approval:	<ul style="list-style-type: none"> Supplier must submit a sample of all packaging including carton printing and bar code labels to GGS Engineering for approval prior to the first shipment. Refer to the <i>GGs Supplier Handbook</i> Section 2.4
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10.0 QUALITY AND INSPECTION REQUIREMENTS:

<p>a) Prior to packaging, each unit shall be inspected and tested by the manufacturer for function, appearance and adherence to these specifications. The unit must function properly in accordance with the procedures and operations cited within the Operator's Manual (OIPM) and must be free of dirt, dust, rust, corrosion, dents, and/or scratches.</p> <p>b) If this is the first shipment of this product to GGS, GGS Engineering must approve production samples before the product is shipped to GGS. Refer to the <i>GGs Supplier Handbook</i> Section 7.0.</p>

11.0 SPECIAL NOTES AND CONDITIONS:

<p>a) After approval of the initial Production Sample, SUPPLIERS MUST COMMUNICATE ANY AND ALL PROPOSED PRODUCT or FACTORY CHANGES TO GGS ENGINEERING PRIOR TO MAKING ANY CHANGES TO THE PRODUCT. No product changes can be made or accepted without prior communication with GGS Engineering.</p> <p>b) Refer to the <i>GGs Supplier Handbook</i> for additional information regarding packaging, shipping, carton markings, bar-code labels, quality and GGS contact information. Contact your local GGS Procurement representative to obtain a copy of the GGS Supplier Handbook.</p>
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