

-- TECHNICAL SPECIFICATION --			
SPECIFICATION NUMBER: 1TDP5_TSREV0.DOC		TITLE: ENG TECH	REL. DATE: 4/17/07
GGS MODEL NUMBER(s): 1TDP5, 1TDP6, 1TDP7	DESCRIPTION: PSC Blower	REVISION #: 0	REV. DATE:




1.0 BRAND:	Dayton
2.0 PRODUCT DESCRIPTION:	
1TDP5	1/30 HP, 115V PSC blower
1TDP6	1/30 HP, 230V PSC blower
1TDP7	1/25 HP, 115V PSC blower

3.0 PRODUCT PHOTO(S):



4.0 PRODUCT REQUIREMENTS:

4.1 Nameplate

 Blower MODEL NO. 1TDP5	 Motor Mfg. Model : MG0822026171010	 E47479
HP: 1/30 VOLTS: 115V Hz: 50/60 AMPS: 0.52/0.65 RPM: 2700/2880 CFM: 131@Free Air 60Hz	RPM: 2700/2880 VOLTS: 115V INS CL: B Hz: 50/60Hz AMB: 40°C AMPS: 0.52/0.65 Motor Safeguard: Auto (Read Warning Label) BRG: Permanently Lubricated ball, Relubrication Not Required	Lead Connections Disconnect Power Before Making Any Electrical Connections WHITE — LINE BLACK — LINE GREY — CAPACITOR BROWN — CAPACITOR
Manufactured for Dayton Electric Mfg.Co., Niles,IL 60714 USA Made in China	Mfd for/Fab,para/Fab,pour Dayton Electric Mfg.Co,Niles,IL 60714 USA Made In China/Hecho en China/Fab,aux China	

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Dayton® Blower
MODEL NO. 1TDP6

HP: 1/30
VOLTS: 230V
Hz: 50/60
AMPS: 0.30/0.33
RPM: 2670/2880
CFM: 133@Free Air 60Hz

Manufactured for Dayton Electric Mfg.Co.,
Niles,IL 60714 USA Made In China

Dayton® Motor
Mfg. Model : MG0822028172010

HP: 1/30 RPM: 2670/2880
VOLTS: 230V INS CL: B
Hz: 50/60Hz AMB: 40°C
AMPS: 0.30/0.33
Motor Safeguard: Auto
(Read Warning Label)
BRG;Permanently Lubricated ball,
Relubrication Not Required

Lead Connections
Disconnect Power Before Making Any
Electrical Connections

WHITE — LINE
BLACK — LINE
GREY — CAPACITOR
BROWN — CAPACITOR

Mfd for/Fab.para/Fab.pour Dayton Electric Mfg.Co.Niles,IL 60714 USA
Made In China/Hecho en China/Fab.aux China

Dayton® Blower
MODEL NO. 1TDP7

HP: 1/25
VOLTS: 115V
Hz: 50/60
AMPS: 0.68/0.75
RPM: 2720/3120
CFM: 146@Free Air 60Hz

Manufactured for Dayton Electric Mfg.Co.,
Niles,IL 60714 USA Made In China

Dayton® Motor
Mfg. Model : MG0822032171010

HP: 1/25 RPM: 2720/3120
VOLTS: 115V INS CL: B
Hz: 50/60Hz AMB: 40°C
AMPS: 0.68/0.75
Motor Safeguard: Auto
(Read Warning Label)
BRG;Permanently Lubricated ball,
Relubrication Not Required

Lead Connections
Disconnect Power Before Making Any
Electrical Connections

WHITE — LINE
BLACK — LINE
GREY — CAPACITOR
BROWN — CAPACITOR

Mfd for/Fab.para/Fab.pour Dayton Electric Mfg.Co.Niles,IL 60714 USA
Made In China/Hecho en China/Fab.aux China

4.2 Features & Performance	Requirement		
Blower/Housing			
Old SKU #	4C442	2C915	4C446
New SKU #	1TDP5	1TDP6	1TDP7
Blower Wheel Diameter [in]	3 ¾		3 29/32
Blower Wheel Width [in]	1 7/8		2 ½
No. of blades for blower wheel	27		22
Inlet Diameter [in]	3 ¾		3 1/8
Outlet Dimension [in] L x W	2 ½ x 2 15/32		3 ¼ x 2 5/32
Flange mounting hole from center-to-center [in] L x W	4 3/32 x 1 ½		3 31/32 x 2 7/8
Overall flange dimension [in] L x W	5 1/8 x 4.0		4 5/8 x 3 17/32
Blower Housing Depth [in]	See drawings below		
Overall blower dimension [in]	See drawings below		

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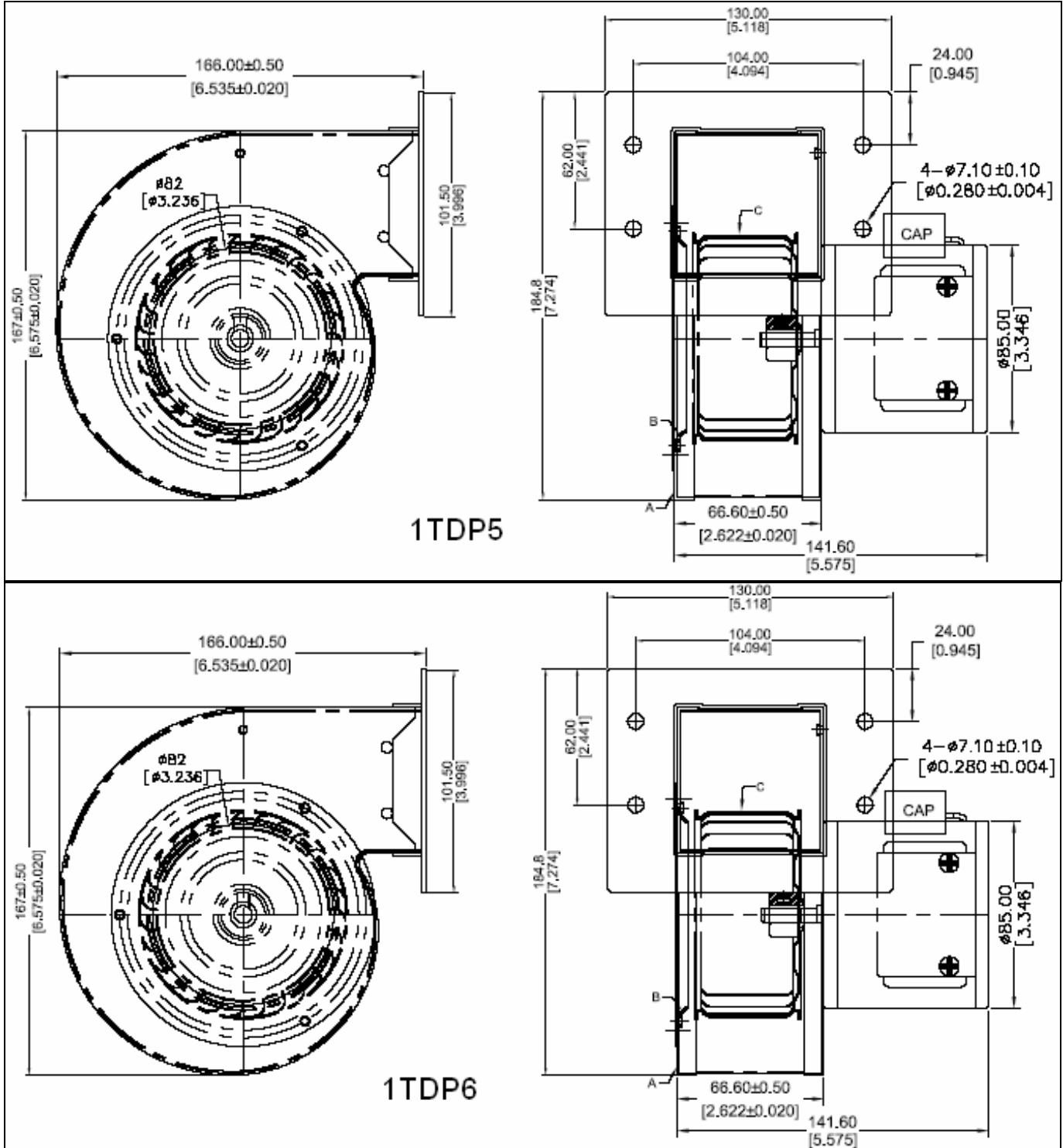
Length x Height x Depth			
Ground label symbol on the blower house	Yes		
Blower bore ID [mm]	8		
Maximum Allowable Vibration	2.0 mm/s		
Performance Curve and Data	See Performance curve and data below		
Motor			
Motor Type	PSC		
Bearing Type	Permanently lubricated ball		
Motor performance rated	Class 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	3.0 mfd±5%, 250VAC	1.0 mfd±5%, 450VAC	3.0 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 back of motor	At 3 o'clock		

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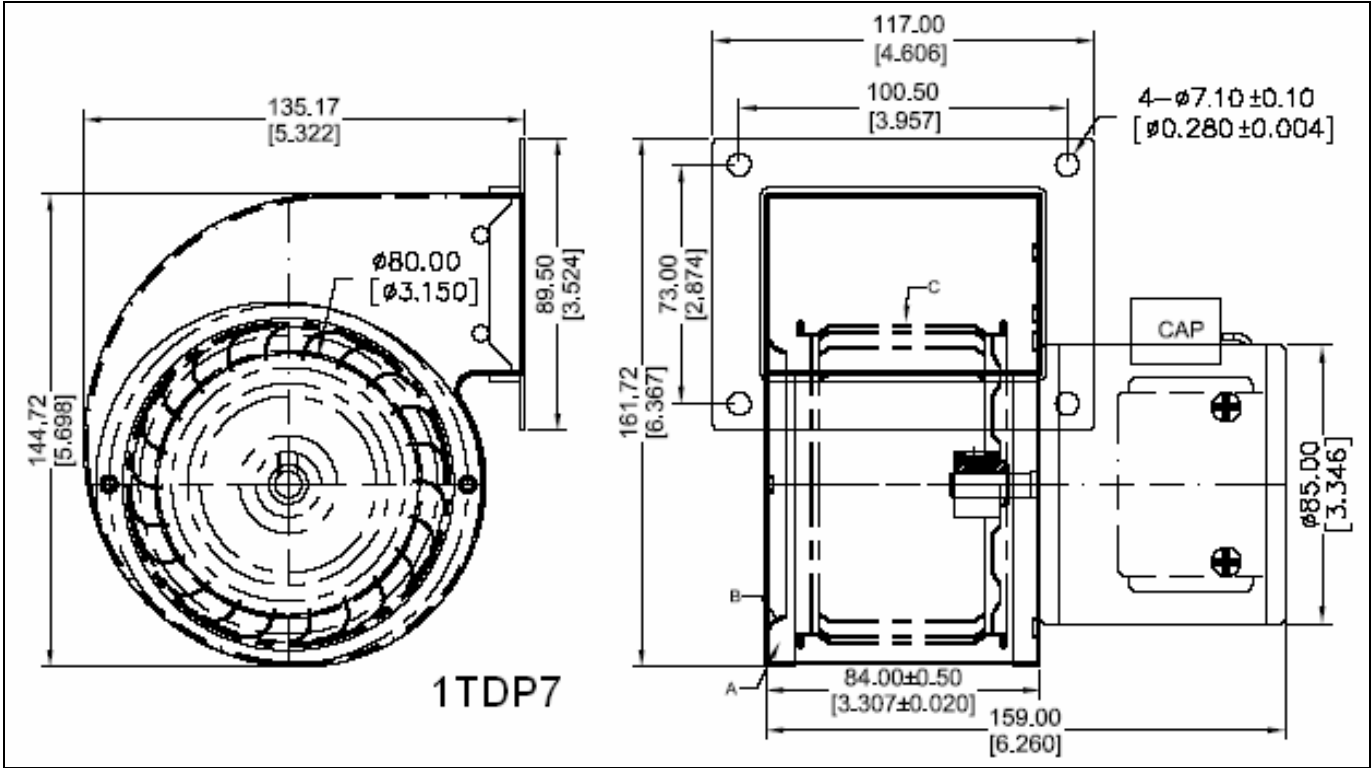
Drawing Dimensions



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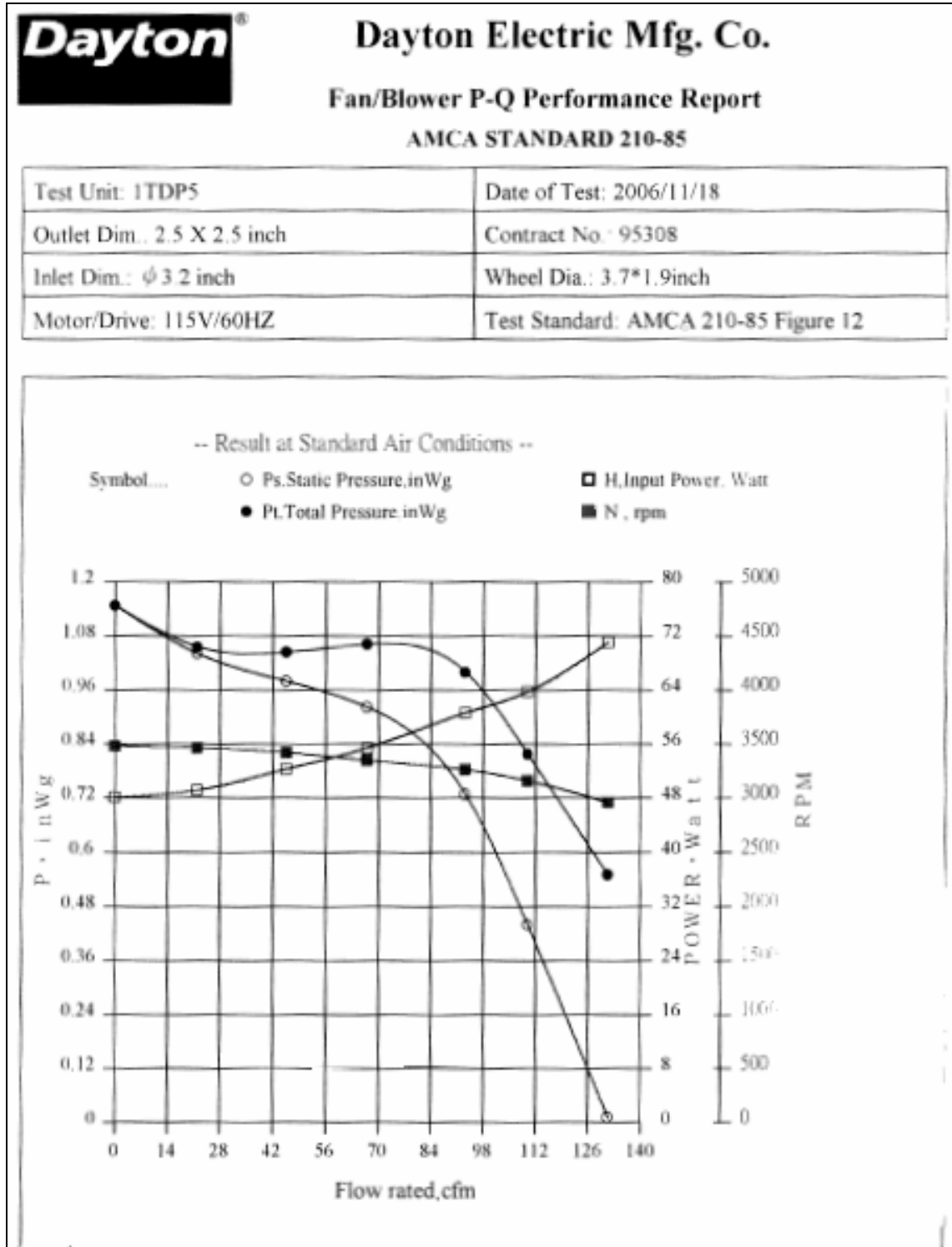


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Performance Curve and Data



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		Dayton Electric Mfg. Co.						
Fan/Blower P-Q Performance Report								
AMCA STANDARD 210-85								
Test Unit: 1TDP5				Date of Test: 2006/11/18				
Outlet Dim.: 2.5 X 2.5 inch				Contract No.: 95308				
Inlet Dim.: ϕ 3.2 inch				Wheel Dia.: 3.7*1.9inch				
Motor/Drive: 115V/60HZ				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	0.30	10.70	17.70	22.40	23.80	25.30	27.90
	Ps5 , mmAq	37.30	26.20	18.90	61.20	28.60	26.70	29.70
	Δ P , mmAq	1.00	11.15	18.68	23.53	25.02	26.61	29.43
	Td5 , $^{\circ}$ C	28.6	28.6	28.6	28.6	28.6	28.6	28.6
	Tdo , $^{\circ}$ C	28.5	28.5	28.5	28.5	28.5	28.5	28.5
	Two , $^{\circ}$ C	26.3	26.3	26.3	26.3	26.3	26.3	26.3
	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	0.580	0.530	0.500	0.450	0.430	0.410	0.400
	Power , Watt	68.00	61.00	58.00	53.00	50.00	47.00	46.00
	Nozzle(L)	00000	00000	00000	00000	00000	00000	00000
	Nozzle(R)	01010	01010	01010	00011	00011	00010	00000
	RPM	2959	3158	3261	3347	3420	3463	3481
Results at Standard Conditions	Qs , cfm	131.3	109.9	93.23	67.02	45.64	22.04	0.000
	Ps , inWg	0.01	0.44	0.73	0.92	0.98	1.04	1.15
	Pt , inWg	0.55	0.82	1.00	1.06	1.04	1.06	1.15
	Power , Watt	71.05	63.74	60.61	55.38	52.25	49.11	48.07
	Eff. < η s > %	0.27	8.89	13.12	13.06	10.02	5.47	0.000
	Eff. < η t > %	11.92	16.51	18.01	15.04	10.68	5.55	0.000
	Noise dBA							

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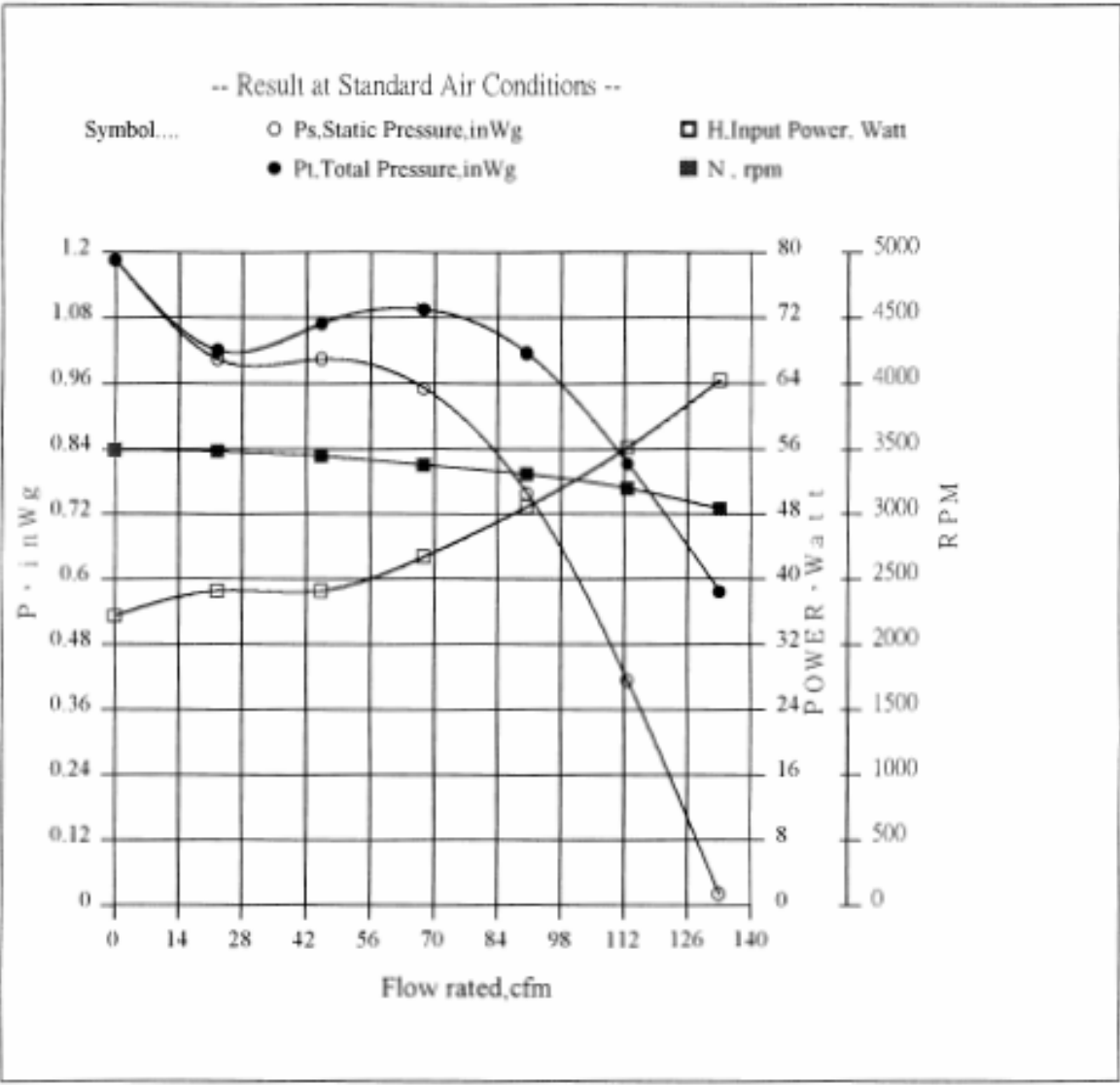
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Dayton Electric Mfg. Co.
Fan/Blower P-Q Performance Report
AMCA STANDARD 210-85


Test Unit: 1TDP6	Date of Test: 2006/11/18
Outlet Dim.: 2.5 X 2.5 inch	Contract No.: 95309
Inlet Dim.: ϕ 3.2 inch	Wheel Dia.: 3.7*1.9inch
Motor/Drive: 230V/60HZ	Test Standard: AMCA 210-85 Figure 15



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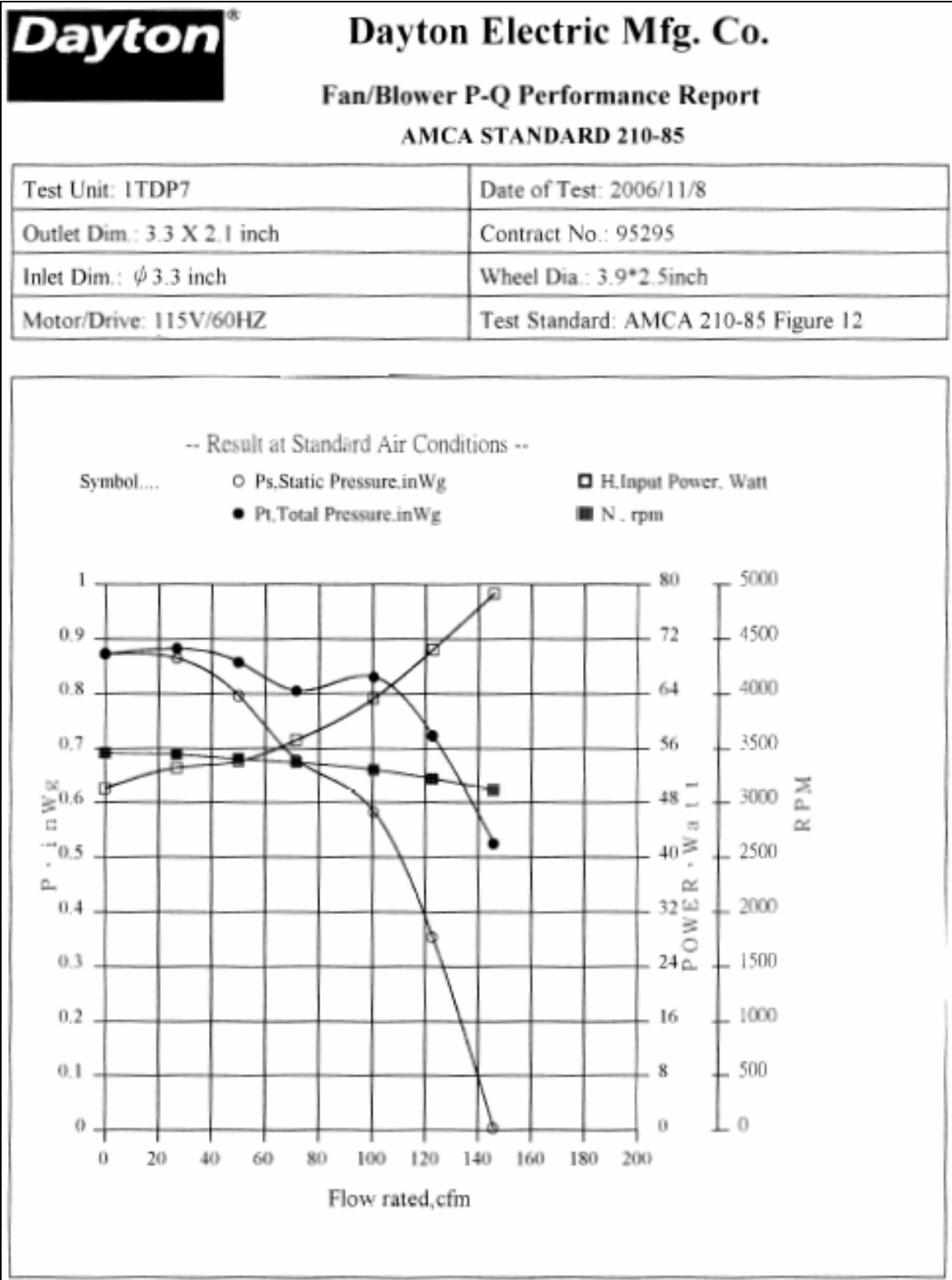
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		Fan/Blower P-Q Performance Report						
		AMCA STANDARD 210-85						
Test Unit: 1TDP6				Date of Test: 2006/11/18				
Outlet Dim.: 2.5 X 2.5 inch				Contract No.: 95309				
Inlet Dim.: ϕ 3.2 inch				Wheel Dia.: 3.7*1.9inch				
Motor/Drive: 230V/60HZ				Test Standard: AMCA 210-85 Figure 15				
State	Item	P 1	P 2	P 3	P 4	P 5	P 6	P 7
Results at Test Conditions	Ps7 , mmAq	0.50	10.10	18.50	23.20	24.50	25.70	28.90
	Ps5 , mmAq	38.70	27.80	27.80	63.00	28.40	30.20	30.80
	Δ P , mmAq	1.00	11.13	19.58	24.43	25.76	27.24	30.40
	Td5 , $^{\circ}$ C	28.2	28.2	28.2	28.2	28.2	28.2	28.2
	Tdo , $^{\circ}$ C	28.3	28.3	28.3	28.3	28.3	28.3	28.3
	Two , $^{\circ}$ C	26.1	26.1	26.1	26.1	26.1	26.1	26.1
	Pbo , mmHg	756.0	756.0	756.0	756.0	756.0	756.0	756.0
	Voltage	230.0	230.0	230.0	230.0	230.0	230.0	230.0
	Amp	0.280	0.240	0.220	0.200	0.180	0.170	0.170
	Power , Watt	62.00	54.00	47.00	41.00	37.00	35.00	34.00
	Nozzle(L)	00000	00000	00000	00000	00000	00000	00000
	Nozzle(R)	01010	01010	01000	00011	00011	00010	00000
	RPM	3039	3197	3306	3376	3444	3481	3491
Results at Standard Conditions	Qs , cfm	133.1	112.8	90.50	67.79	45.34	22.67	0.000
	Ps , inWg	0.02	0.41	0.76	0.95	1.00	1.00	1.18
	Pt , inWg	0.58	0.81	1.01	1.09	1.07	1.02	1.18
	Power , Watt	64.39	56.14	48.90	42.68	38.52	38.52	35.41
	Eff. < η s > %	0.50	9.73	16.43	17.69	13.84	6.92	0.00
	Eff. < η t > %	13.95	19.11	21.99	20.36	14.73	7.03	0.00
	Noise dBA							

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

Test Unit: 1TDP7	Date of Test: 2006/11/8
Outlet Dim.: 3.3 X 2.1 inch	Contract No.: 95295
Inlet Dim.: ϕ 3.3 inch	Wheel Dia.: 3.9*2.5inch
Motor/Drive: 115V/60HZ	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	0.10	8.80	14.50	16.90	19.80	21.50	21.70
	Ps5 , mmAq	32.80	23.30	15.70	17.80	35.20	40.70	24.50
	Δ P , mmAq	1.00	9.15	15.10	17.59	20.12	22.39	23.12
	Td5 , C	22.3	22.3	22.3	22.3	22.3	22.3	22.3
	Tdo , C	22.7	22.7	22.7	22.7	22.7	22.7	22.7
	Two , C	20.8	20.8	20.8	20.8	20.8	20.8	20.8
	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	0.690	0.620	0.570	0.520	0.500	0.470	0.480
	Power , Watt	77.00	69.00	62.00	56.00	53.00	52.00	49.00
	Nozzle(L)	00000	00000	00000	00000	00000	00000	00000
	Nozzle(R)	01011	01011	01011	01000	00011	00010	00000
	RPM	3114	3219	3302	3369	3403	3444	3457
Results at Standard Conditions	Qs , cfm	146.0	122.9	100.7	71.77	50.17	27.00	11.11
	Ps , inWg	0.00	0.35	0.58	0.68	0.80	0.86	0.87
	Pt , inWg	0.52	0.72	0.83	0.81	0.86	0.88	0.87
	Power , Watt	78.64	70.47	63.32	57.19	54.13	53.10	50.04
	Eff. ηs %	0.09	7.23	10.86	9.99	8.64	5.15	0.00
	Eff. ηp %	11.41	14.76	15.46	11.84	9.31	5.25	0.00
Noise dBA								

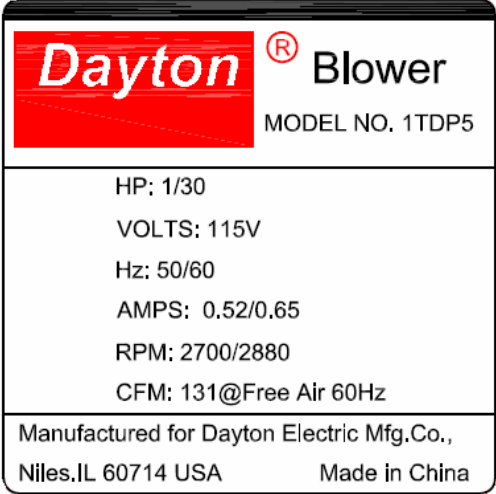

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4.3 Materials & Construction	Requirement
Blower/Motor Housing	High quality steel
Blower Wheel	Galvanized steel
End bells	Cast Aluminum
Motor shaft	Stainless steel
Manufacturing tolerance	Overall blower dimension: +1/16" Maximum Outlet (L x W): + 1/16" / - 0.00" Blower housing: +1/16" Maximum Mounting flange holes: ± 1/16" Mounting flange holes from center-to-center: ± 1/16" Mounting flange overall: +1/16" / -0.00"

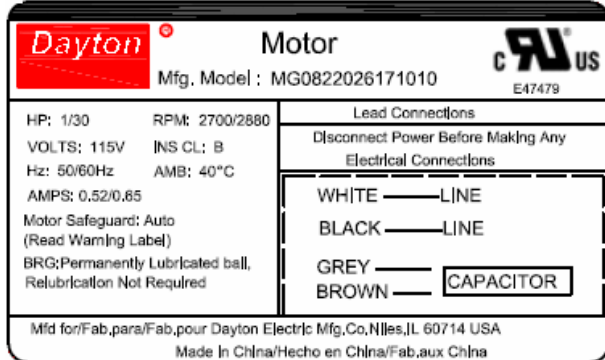
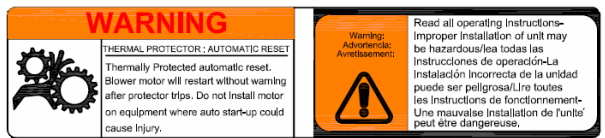
4.4 Finish / Color	Requirement
All Surface Finishes	a) Surface finishes must be uniform and continuous. The surface finish must not exhibit any visual defects such as blisters, rust, corrosion, scratches, peeling, bubbles, and/or cracking. b) All exposed surfaces must be free of burrs and sharp edges. 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
Ground Screw	Zinc plated

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 : MG0822026171010 E47479</p> <p>HP: 1/30 RPM: 2700/2880 VOLTS: 115V INS CL: B Hz: 50/60Hz AMB: 40°C AMPS: 0.52/0.65</p> <p>Motor Safeguard: Auto (Read Warning Label) BRC: Permanently Lubricated ball, Relubrication Not Required</p> <p>Lead Connections Disconnect Power Before Making Any Electrical Connections</p> <p>WHITE — LINE BLACK — LINE GREY — CAPACITOR BROWN — CAPACITOR</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>	<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: Advertencia: Read all operating instructions- Improper installation of unit may be hazardous/lea todas las instrucciones de operaci3n-La instalaci3n incorrecta de la unidad puede ser peligrosa/Lire toutes les instructions de fonctionnement- Une mauvaise installation de l'unit3 peut 3tre 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) 1TDP5 (1) 1TDP6 (1) 1TDP7	1 1TDP5 1 1TDP6 1 1TDP7	<ul style="list-style-type: none"> See Section 8.0 <i>CARTON MARKINGS</i>

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-- TECHNICAL SPECIFICATION --			
SPECIFICATION NUMBER: 1TDP5_TSREV0.DOC	AUTHOR:	TITLE: ENG TECH	REL. DATE: 4/17/07
GGs MODEL NUMBER(s): 1TDP5, 1TDP6, 1TDP7	DESCRIPTION: PSC Blower	REVISION #: 0	REV. DATE:

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.

Dayton® (1) 1TDP5
Blower
CFM : 131 Free Air At 60Hz
Volts : 115
Hz : 50/60
Made in China
Manufactured for Dayton Electric Mfg. Co., Niles, Illinois 60714 U.S.A.

Soplador
CFM : 131 de aire libre a 60 Hz
Voltios : 115
Hz : 50/60
Hecho en China
Fabricado para Dayton Electric Mfg. Co., Niles, Illinois 60714 U.S.A.

Soufflerie
CFM : 131 d' air libre à 60 Hz
Volts : 115
Hz : 50/60
Fabriqué aux China
Fabriqué pour Dayton Electric Mfg. Co., Niles, Illinois 60714 U.S.A.



1 1TDP 5

Dayton® (1) 1TDP6
Blower
CFM : 133 Free Air At 60Hz
Volts : 230
Hz : 50/60
Made in China
Manufactured for Dayton Electric Mfg. Co., Niles, Illinois 60714 U.S.A.

Soplador
CFM : 133 de aire libre a 60 Hz
Voltios : 230
Hz : 50/60
Hecho en China
Fabricado para Dayton Electric Mfg. Co., Niles, Illinois 60714 U.S.A.

Soufflerie
CFM : 133 d' air libre à 60 Hz
Volts : 230
Hz : 50/60
Fabriqué aux China
Fabriqué pour Dayton Electric Mfg. Co., Niles, Illinois 60714 U.S.A.



1 1TDP 6

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-- TECHNICAL SPECIFICATION --			
SPECIFICATION NUMBER: 1TDP5_TSREV0.DOC	AUTHOR:	TITLE: ENG TECH	REL. DATE: 4/17/07
GGS MODEL NUMBER(s): 1TDP5, 1TDP6, 1TDP7	DESCRIPTION: PSC Blower	REVISION #: 0	REV. DATE:

<p>Dayton® (1) 1TDP7 Blower CFM : 146 Free AirAt 60Hz Volts : 115 Hz : 50/60 Made in China Manufactured for Dayton Electric Mfg. Co.,Niles,Illinois 60714 U.S.A.</p>
<p>Soplador CFM : 146 de aire libre a 60 Hz Voltios : 115 Hz : 50/60 Hecho en China Fabricado para Dayton Electric Mfg.Co.,Niles,Illinois 60714 U.S.A.</p>
<p>Soufflerie CFM : 146 d' air libre à 60 Hz Volts : 115 Hz : 50/60 Fabriqué aux China Fabriqué pour Dayton Electric Mfg.Co.,Niles,Illinois 60714 U.S.A.</p>
<p style="text-align: center;"> 1 1TDP7</p>

Picture 1

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