SPECIFICATIONS

ITEM: OIL-Less Rocking Piston Type Vacuum Pump

MODEL: 120RAD-LL for Dental Air Compressor

(LL: Long Life Version)

APPLICATION: Dental Air Compressor

CUSTOMER:

MANUFACTURER & SUPPLIER: G&M TECH INC. KOREA

Mar. 10, 2014









Rm # 404, DFV 1 Cha, #1030, Jung-Dong, Giheung -Gu, Yongin-City, Korea

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Paper Size: A4(210x297mm)

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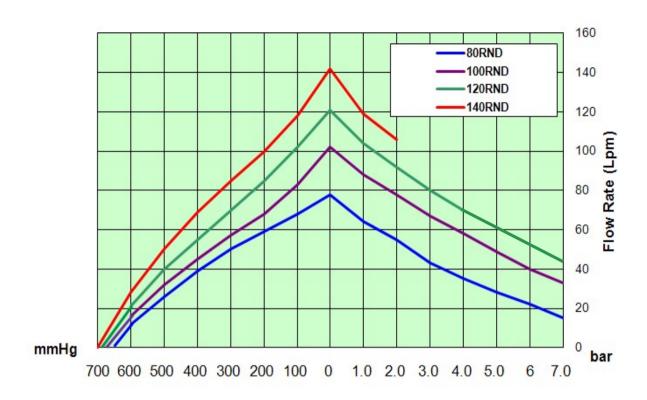
1. BASIC SPECIFICATIONS: 120RAD-LL

DESCRIPTION	Feature & Specification	Remarks	
Model	120RAD-LL (Long Life Version)		
Voltage	230VAC, 50Hz / 60Hz		
Motor Type	4 pole, Class B. Capacitor start		
Rated RPM	1420rpm (50 Hz) , 1650rpm (60Hz)		
Rated Output	250 Watt		
Rated Current	2.1 A (50Hz) , 1.4A (60Hz)	at free flow	
	3.1 A (50Hz) , 2.8A (60Hz)	at 5 bar	
Rated Input	280W	at free flow	
	530 W (50Hz) , 580 W (60Hz)	at 5 bar	
Max. flow rate	rate 102 Lpm (50Hz), 120 Lpm (60Hz)		
Max. operting pressure	Upto 7.0 bar		
Insulation resistance	More than 100 № (According to EN60204-1)		
Voltage Test	No problem under DC1500V / 5mA for 1 minute (According to EN60204-1)	According to IEC601-1	
Thermal Protector	nermal Protector 130℃ ± 6.5℃		
Ambient Temperature	nbient Temperature 0℃ ~ 40℃		
Capacitor	apacitor 14 µF / 450VAC		
Life Time	22,000 Hours in Vacuum		
Life Tillie	16,000 Hours in pressure at 0~40℃	upto 3 bar	
Dimensions	250(L) X 178(H) X 118(W) mm		
Weight	8.0 Kg		
Certificate	ISO14001, CE Mark, EMI Test approved		

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[●] EN60204-1 is Eropean standard of Electrical Safety.

2. Performance Curve



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3. Appearance

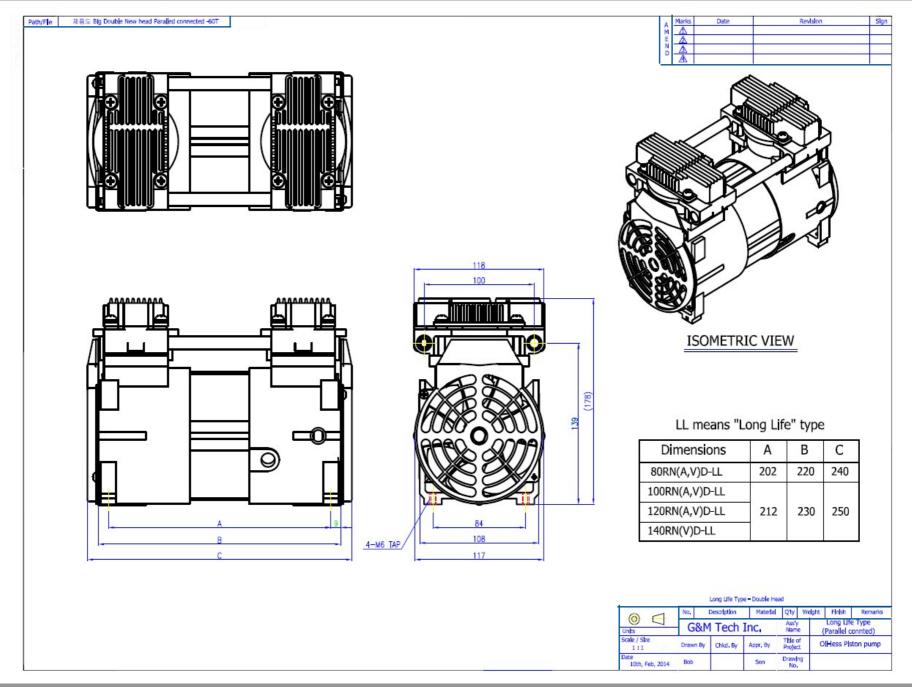


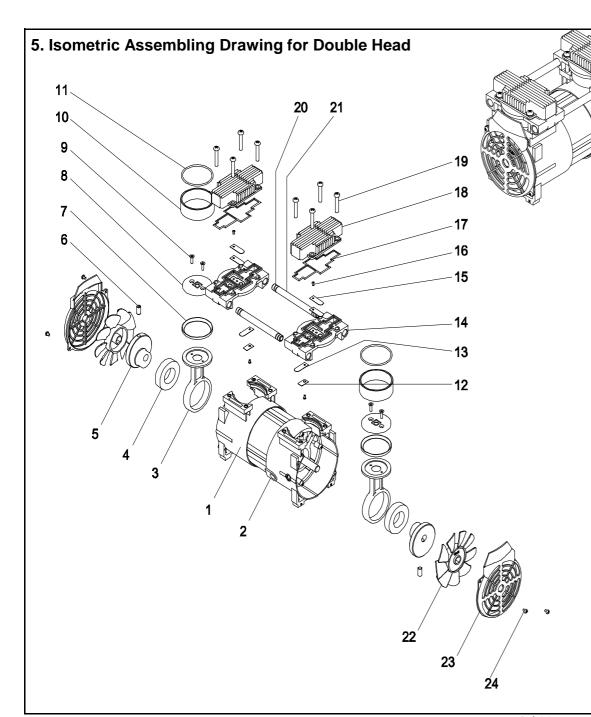
PTFE Coating Type



Normal Type





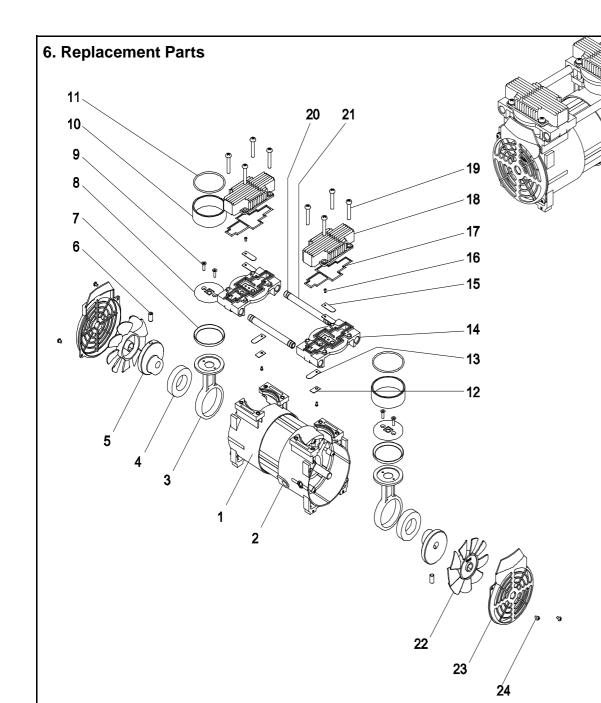


No.	Description	Material	Q'ty	Remarks
1	Motor (AC Ver.)		1	110 Core
2	Wire Holder	NBR	1	
3	Rod	ADC12	2	
4	Bearing		2	6006ZZ
5	Eccentric		2	
6	Set Screw		2	M8
7	Teflon Cup	PTFE	2	
8	Rod Cap	ADC12	2	
9	Rod Screw	STS	4	M4
10	Cylinder	AL6061	2	Anodizing
11	O-Ring	Silicone	2	
12	Valve washer	STS	2	Small
13	Valve	STS	2	
14	Valve Plate	ADC12	2	
15	Valve washer	STS	2	Large
16	Valve Screw		4	M4
17	Rec-Ring	Silicone	2	Red
18	Head Cap	ADC12	2	
19	Head Screw		8	M6
20	O-Ring	Silicone	8	Red
21	Conn. Pipe	AL6063	2	
22	Fan	P.P	2	Black
23	Fan Cover	P.C	2	Black
24	F/C screw		4	M4

Applied Model: 80, 100, 120, 140RND(RVD)







No.	Description	Material	Q'ty	Remarks
7	Teflon Cup		2	Yellow
9	Rod Screw	STS	4	M4x12
10	Cylinder	AL6061	2	
13	Valve	STS	4	
	Rod Ass'y		2	No.3~8





7. Certificates - CE Mark (Machinery by TUV Nord)



Certificate of conformity with the following **European Directives**

Registered No.:

K3555/M10

Machinery Directive 2006/42/EC

Reference of applicant

Date of application 04.11.2010

File reference KP-10-333

Test report No. K4880/M10

09.11.2010

This is to certify that the following products comply to the essential requirements (Annex 1) of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product:

Oil-less Rocking Piston Pump

Type designation:

aRND, bRNS, cRVD, dRAD, eRVS, fRAS

(a = 140, 120, 100, 80, 70, 60, 50, 40, 30, 25, 20, 15, 12, 10; b = 70, 60, 50, 40, 30, 20, 15, 12, 10; c = 140, 120, 100, 80, 70, 60, 50, 40, 30, 25, 20, 15, 12, 10; d = 120, 100, 80; e = 70, 60, 50, 40, 30, 25, 20,

15, 12, 10; f = 70, 60, 50, 40, 30, 25, 20, 15, 12, 10)

Applicant:

327-7, Dangjeong-dong, Gunpo-city, Kyunggi-do 435-832, Korea

Standard(s):

EN ISO 12100-2:2003 + A1:2009

EN 60204-1:2006 + A1:2009

EN 60034-1:2004

EN 1012-2:1996 + A1:2009

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification Body for Product Safety

TÜV NORD Korea Ltd. Tel.: +82-2-6000-4222 E-mail: product@tuvnord.or.kr



Certificates - CE Mark (EMC by TUV Nord)



Certificate of conformity with the following **European Directives**

Registered No.:

K1781/E07

Electromagnetic Compatibility Directive 2004/108/EC

Reference of applicant

Date of application 28.05.2007

File reference KP-07-272

Test report No. K2798/E07 Date of issue 20.09.2007

(Ref.No.DAC07-0255)

This is to certify that the following products comply to the essential requirements (Annex 1) of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product:

Oil-Less Rocking Piston Pumps

Type designation:

xRND, yRNS

(x=10, 12, 15, 18, 20, 40, 50, 60, 70, 80, 100, 120, 140;

y=10, 12, 15, 18, 20, 40, 50, 60, 70)

Applicant:

G&M Tech Inc.

2F., 327-7, Dangjeoung-dong, Gunpo-city,

Kyunggi-do 435-832, Koea

Standard(s):

EN 61000-6-2:2005 EN 61000-6-4:2001

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification Body for Product Safety

TÜV NORD Korea Ltd. Tel.: +82-2-6000-4222 Fax: +82-2-6000-4223

Certificates - ISO 14001



CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEMS

G&M Tech Inc.

Room No.404, Daewoo FV 1Cha, #1030, Jung-Dong, Giheung-Gu, Yongin-City, Gyeonggi-Do, Korea

This is to certify that the Environmental Management Systems of this organization has been found to conform to the below Certification Standard by KTLMS

Certificate No.

KRE - 0032

Certification Standard

KS I ISO 14001:2009 / ISO 14001:2004

Certification Scope

Design & development, production, service of Oil-less Rocking Piston Pump

Period of Validity

from 09 September 2014 until 08 September 2017 Initial Registration Date : 09 September 2005 Date of Issue : 01 September 2014

Hyun Doo, Kim

President KTLMS Co., Ltd.

1-610, 98, Gasan digital 2-ro, Geumcheon-gu, Seoul, Korea







The use of the Accreditation Mark indicates accreditation by KAB in respect of those activities covered by the Accreditation Certificate Number KAB-EC-40

Accredited by Member(KAB) of the International Accreditation Forum Multilateral Recognition Arrangement for Environmental Management Systems



Certificates - RoHS

G G&M Tech Inc.

RoHS



Address: 2F, #327-7, Dangleong-Dong, Gunpo-City, Kyunggi-Do, Korea Tel:+82-31-459-8221, Fax.:+82-31-459-8611, http://gnmteohino.en.eo21.com

ISO14001, CE Mark

DECLARATION OF CONFORMITY

We, G&M Tech Inc. locates at #327-7, Dangjeong-Dong, Gunpo-City, Kyuggi-Do, Korea, declare under our responsibility that products manufactured by Pneumax:

to which this declaration relates, are in conformity with the following standards or other normative document(s):

- Directive 2002/95/CE (RoHS) prohibiting and limitating the use of lead, mercury, cadmium, chrome and some retarding flame products in electric and electronics equipments.
- Directive 2002/96/CE (RAEE) preventing and limiting the flow of equipments refusals destinated to dumps through recovery and recycling politics of instruments and their components.

All products are realized with material respecting limits indicated by a.m. Directives, including all surfaces treatments adopted by Pneumax as well as plastic material free from PBB and PBDE

Mar. 12, 2007

124-81-93615 (주)지엔임대 손법호 경기도 궁포시 당장동 327-7 2층 계속 14 기계기구차

G & M TECH INC.

B. H. SON / PRESIDENT