

BALDOR

葆德空压机

gather in space, fire on time

葆德永磁变频空压机 ——行业领军品牌

Baldor PM VSD Compressors
—— the leading brand in the compressor industry



永磁变频螺杆空压机——PM系列
Permanent Magnet
Variable Speed Screw Air Compressor



企业荣誉 Enterprise honor



品牌专卖店 Baldor Exclusive Shop

北京——北京葆德空压机专卖店
 广东——广州花都葆德空压机专卖店
 广东——深圳宝安葆德空压机专卖店
 广东——东莞长安葆德空压机专卖店
 广东——潮州葆德空压机专卖店
 广东——东莞大朗葆德空压机专卖店
 广东——东莞寮步葆德空压机专卖店
 广东——江门葆德空压机专卖店
 广东——中山葆德空压机专卖店
 广东——佛山龙江葆德空压机专卖店
 广东——佛山容桂葆德空压机专卖店
 广东——佛山伦教葆德空压机专卖店
 广东——佛山大良葆德空压机专卖店
 广东——佛山乐安葆德空压机专卖店

广东——佛山联和葆德空压机专卖店
 广东——佛山丹灶葆德空压机专卖店
 广东——佛山大沥葆德空压机专卖店
 江苏——淮安葆德空压机专卖店
 江苏——南通葆德空压机专卖店
 江苏——镇江葆德空压机专卖店
 江苏——无锡葆德空压机专卖店
 江苏——昆山葆德空压机专卖店
 江苏——靖江葆德空压机专卖店
 辽宁——辽阳葆德空压机专卖店
 辽宁——沈阳葆德空压机专卖店
 辽宁——大连葆德空压机专卖店
 江西——宜春葆德空压机专卖店
 江西——高安葆德空压机专卖店

浙江——台州玉环葆德空压机专卖店
 浙江——宁海葆德空压机专卖店
 浙江——慈溪葆德空压机专卖店
 浙江——永康葆德空压机专卖店
 浙江——义乌葆德空压机专卖店
 浙江——绍兴葆德空压机专卖店
 浙江——乐清葆德空压机专卖店
 浙江——湖州葆德空压机专卖店
 浙江——诸暨葆德空压机专卖店
 河南——郑州葆德空压机专卖店
 重庆——重庆葆德空压机专卖店
 湖南——郴州葆德空压机专卖店
 四川——成都葆德空压机专卖店
 山东——日照葆德空压机专卖店

持续更新中.....

C 公司简介 Company Profile

广东葆德科技有限公司秉承世界最先进的工业设计理念和严谨的制造工艺，专注于工业空气压缩机的研发和产品制造，先进的节能技术与现代化生产的完美结合，使我们的产品拥有最高品质，并在不同领域得到广泛应用。最新的节能产品正为国家节能事业贡献力量。

我们严格遵循ISO9001质量管理体系，并贯穿于产品的设计，制造，检测，销售和服务整个过程。我们始终坚持优选采购策略，并坚持选用当今行业最先进的主机，确保每一台空压机的优异性能，我们坚持为客户提供卓越品质的产品与最节能的方案、让用户满意是我们永续的追求。

Following the most advanced industrial design concept and stringent manufacturing processes, Guangdong Baldor-tech Co.,Ltd focuses on the R&D and manufacturing of air compressors. The perfect combination of advanced energy saving technology and modern production processes makes products with the highest quality. Our compressors are widely applied in different industries and are making contributions to the national energy saving projects.

ISO9001 Quality Management System are strictly complied with throughout our product design, production, QC, sales and services procedures. We always insist to selecting the most advanced airend and high quality spare parts to ensure an excellent performance of every compressor we produced. Customer satisfaction is our continuous pursuit and we will insist on providing products with high quality and low energy consumption.





省维修

Less and easier maintenance

装备了最新型线、长寿命、省维修设计的螺杆转子。
最长超过10年的免大修周期。
采用高品质螺杆空压机专用油品，
确保主机良好润滑。
主机结构合理，维护使用更方便。

Equipped with the latest long life rotors,
Large maintenance up to ten years a time,
Lubricating oil with good performance and long
servicing time,
No air-suction adjusting valve.



永磁变频螺杆空压机
Permanent Magnet
Variable Speed Screw Compressor

超低静音
Ultra low noise

整机体积小
Small size

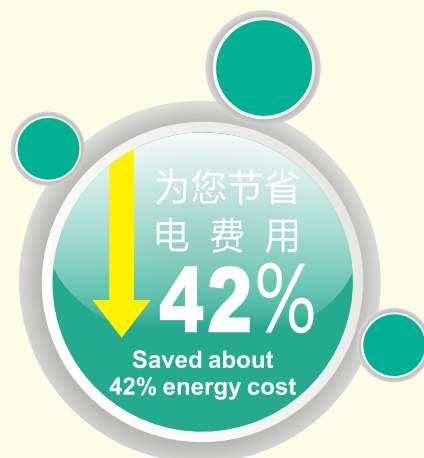
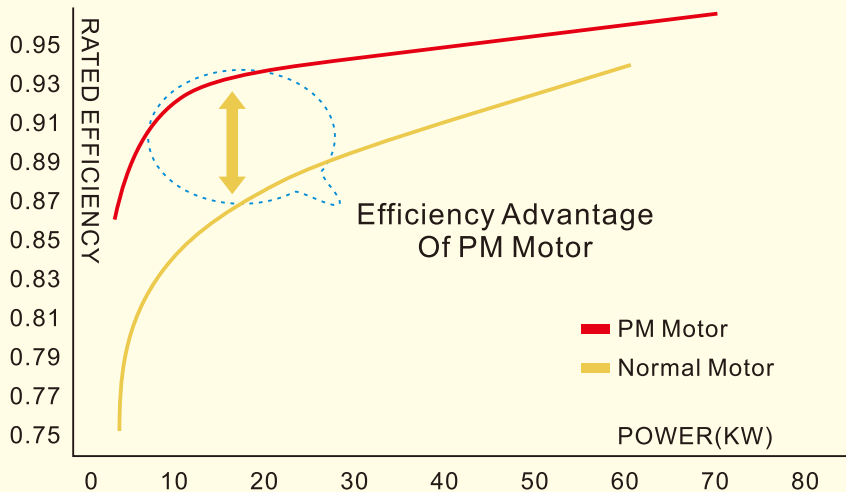
前置过滤网
Front filter mesh

结构简单
Simple Structure

高效永磁电机
High-efficient
PM Synchronous
Motor

整机高效节能
High efficiency
and energy saving
for the whole
machine

传动效率高
High
transmission
efficiency





高效永磁电机变频控制 Frequency control system of the high efficiency PM synchronous Motor

变频控制可以根据所需空气量调整转数。与不能进行转数控制的非变频机相比节能效果明显。

装备了高效永磁(PM)电机与通用的变频机相比，节能约6~7%。

尤其在低负载区域，出众的控制范围及构造，发挥出明显的节能优势。

可在宽频范围内发挥最高能效，永磁(PM)变频空压机比普通工频空压机相比节能约42%。



The motor rpm could be adjusted according to the real time air consumption in its frequency control system. The energy saving performance is outstanding compared with the fixed speed type compressor. The wide FM Range makes the PM VSD compressor is about 42% more energy saving than the fixed speed type compressor.

The PM VSD compressors can save about 6%~7% energy compared with normal VSD compressors. Especially in light load working condition, the outstanding variable frequency control system showed a significant energy saving advantage.



葆德永磁变频螺杆式空压机技术参数： Technical Parameters Of Baldor PM VSD Screw Compressors

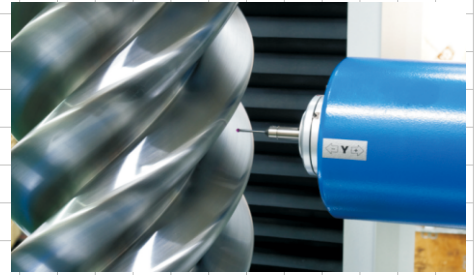
型号 Model	Mpa	BD-10PM	BD-15PM	BD-20PM	BD-30PM	BD-40PM	BD-50PM	BD-60PM	BD-75PM	BD-100PM	BD-125PM	BD-150PM	BD-175PM
排气量(M ³ /min)排气压力 Free Air Delivery / Discharge Pressure	0.7~1.0	0.36-1.35	0.46-1.8	0.8-2.6	1.0-3.8	1.3-5.2	1.9-6.8	2.3-8.4	3.0-11.0	4.5-15.0	5.0-16.8	6.5-21.5	7.6-25.3
环境温度(°C) Ambient Temperature	°C	-5 ~ +40°C											
冷却方式 Cooling Model		风冷或水冷 Air or Water-Cooling											
排气温度 Discharge Temperature	°C	≤环境温度+10°C ≤Environment Temp+10°C(风冷型Air-Cooling)						<40°C (水冷型Water-Cooling)					
润滑油量 Lubricant	升/L	4	9	16	20	30	50	72					
噪音 Noise	dB(A)	62±2		65±2				68±2		75±2			
驱动方式 Driven Mode		永磁同步 Frequency synchronization											
电源 (V/ph/Hz) Electricity		220V/380V/415/3ph/50Hz/60Hz											
功率 Power	KW	7.5	11	15	22	30	37	45	55	75	90	110	132
启动方式 Starting Mode		变频启动 (Starter)											
外形尺寸 Dimension	长 (L)	mm	900	1020	1250	1450	1600	1800	1900	2200			
	宽 (W)	mm	650	710	800	900	1150	1250	1250	1550			
	高 (H)	mm	920	1020	1000	1125	1250	1550	1650	1800			
重量 Weight	KG	180	286	400	450	580	610	900	930	1080	1280	2880	3080
出口管径 Air Outlet Pipe Diameter	inch	ZG½"	ZG1"	ZG1¼"		ZG1½"		ZG2"			ZG2½"		



主机工厂 Airend Plant

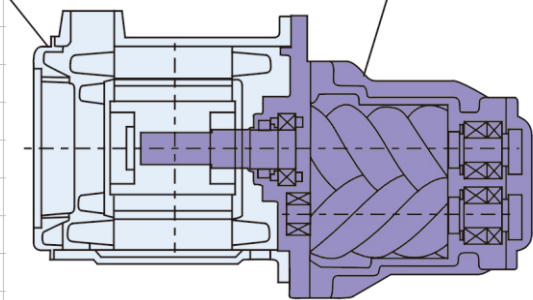
任何产品都必须经过严谨的工序锤炼，
对品质的苛求正是来自务实精细的科学精神。
从国外引进的生产设备，将科研成果产业化，
尖端的工艺，从根本上确保了加工精度，完美呈现产品设计效果。

Advanced manufacturing and processing equipments for the airend turn our scientific studies into real products and mass production.
Sophisticated manufacturing process ensures the high precision of our airend and perfectly shows our design.



高效永磁电机
High-efficiency PM Motor

螺杆转子
New Screw Rotor



一体轴式结构永磁电机：运行稳定

Pm Synchronous Motor With Integrated Structure
Ensures Stable Operation Of The Compressor.

永磁电机与压缩机主机采用内嵌式一体轴直连结构。

无皮带和齿轮产生的机械损耗，
彻底削减了机械损耗，结构更加紧凑。

永磁 (PM) 电机没有电机轴承，清除了电机轴承故障点，
传动效率100% 永磁电机采用高效能钕铁硼永磁体，120℃不失磁，
使用寿命更长。定子线圈采用变频器专用耐电晕漆包线。
绝缘性能卓越,使用寿命更长。

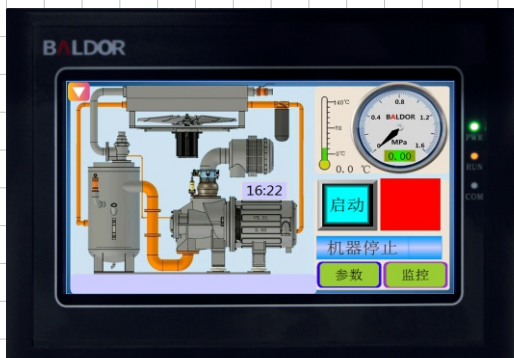
The PM synchronous motor is integrated combined with the airend, with a 100% transmission efficiency. There is no belt or gears, totally reduced the mechanical losses from them and makes a more compact system structure. There is no motor bearing in the PM syn. motor, eliminating the possible failure point of motor bearing. NdFeB permanent magnetic material is used in the PM motor and will not be demagnetized under 120℃. The operating life time would be longer. Special anti-corona wires for inverters are used for the stator coil, ensuring excellent insulation performance and longer operating life time.



“工业管家”功能 Industrial Housekeeper Function

葆德压缩机系统，
可以根据您工厂的工作时间预先设定每周的工作时间表，
压缩机会按照设定好的工作时间表，准时自动开机和关机，
实时运行监管，故障发送。
真正让设备实现24小时无人值守。

A weekly working schedule for the compressor could be set according to the working time arrangement in your factory. The compressor would work according to the setting time schedule and automatically on and off work on time. There is real time monitoring system and any fault in the compressor could be sent to your mobile phone by SMS. A true 24h unattended operation is available for BALDOR compressor.

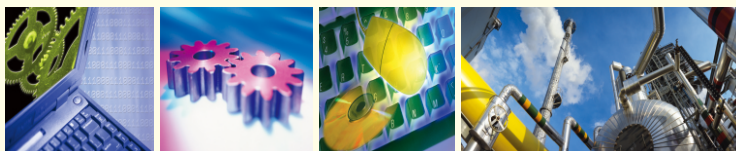
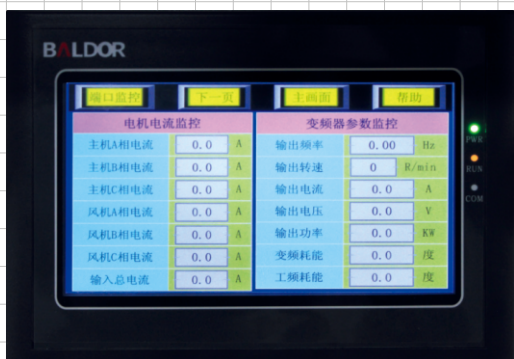


彩色触摸屏控制系统 Plc Control With Colored Touch Screen

全智能动态控制，动态显示压缩机各个部件的工作状况。
实时直观的压力、温度、电流等工作曲线。
超大内存8M Flash ROM + 16M SDRAM，
可存贮上千条的历史故障记录。
配有打印机接口，可随时打印压缩机的工作信息报表。
RJ45以太网接口，支持HMI与以太网控制器或PC互联。
标准显示屏有7" TFT。

通过CE认证，符合FCC Class A。

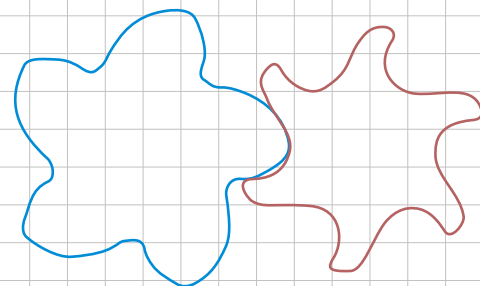
The intelligent control system dynamically displayed the working conditions of every part in the compressor. The system datas such as the pressure, temperature, current and ect. could be get at real time. Large memory 8M Flash ROM+16M SD RAM could be used to storage thousands of historical failure message. The printer interface is equipped so as to print the working report of the compressor. RJ45 Ethernet interface equipped, HMI is available to connect with the Ethernet controller or PC. Standard 7" TFT screen. CE approved, and FCC Class A confirmed.



1/ 达到先进水平的排气量 Big Air Displacement

双螺杆主机通过持续优化转子型线及内部结构，为广大客户提供了行业先进水平的比功率，达到先进水平的排气量。

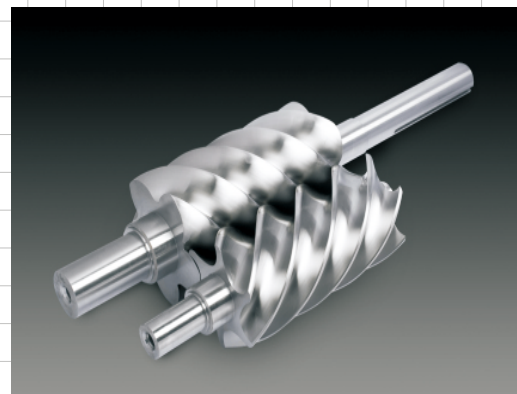
Continuous optimized double screw rotors' profile and internal structure in the airend, Advanced level of specific power and air displacement.



2/ 微电脑同步控制系统 Micro-computer Synchronous Control System

先进的微电脑控制驱动系统实现智能控制，变速控制，气量自动调节，负载启动，软启动，电流涌动的消除以及部件使用寿命的延长，这样就大大增加了系统的可靠性。

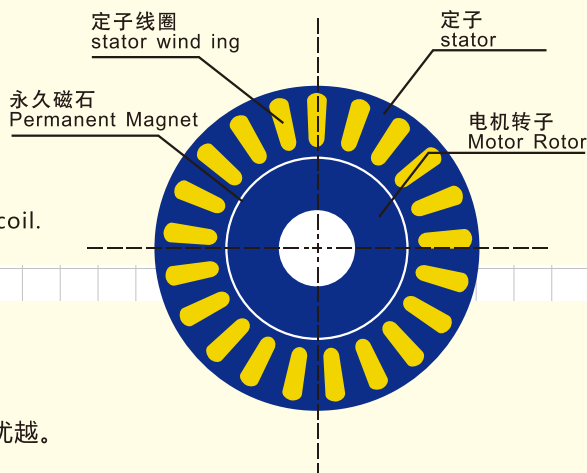
The advanced micro-computer synchronous control system realized intelligent control of the motor frequency according to the real time air consumption. The system reliability is greatly enhanced due to soft load start, elimination of current fluctuation and longer operating life time of spare parts.



3/ 高效永磁电机 High Efficiency PM Synchronous Motor

通过与定子线圈相关的交流电压产生的磁场以及磁场的磁力，使转子产生转动的电机。

The motor rotor is rotated by the magnetic force from the magnetic field generated by the AC Voltage related to the stator coil.



节能、稳定 Energy saving and reliable

- 1、高效永磁电机(PM电机)，与普通调频主机相比，节能性能更优越。
- 2、尤其电机转速低时，永磁电机仍能保持很高的电机效率。
- 3、同步电动机响应速度快，在排气响应度上表现卓越。
- 4、能够实现软启动：运行时，电机电流不会超过满载电流，同时也大大减小了对电网设备的冲击，不会对用电设备造成损害。

- 1.The high efficiency synchronous PM motor is more energy saving than the normal variable frequency Asyn. motor.
- 2.The PM motor can still keep a high motor efficiency even in a slow r.p.m.
- 3.Quick response of the PM Syn. motor to the air consumption fluctuation.
- 4.Soft start mode. The motor current would not be over the full loading current while operation and greatly reduced the impact to the power equipments.

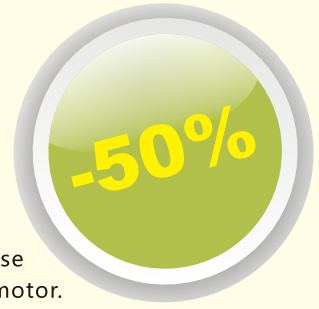
体积小 Small Size

电机体积小，一般约为普通调频电机尺寸1/3，便于拆装。
PM motor is 1/3 of the size of normal motor and easy to install.

4/ 冷却风扇变频控制(选配) Variable Frequency Control of the Cooling Fan (Optional)

冷却风扇变频控制，节能约50%。风扇变频器根据排气温度变化控制风扇的转速，抑制电力浪费。同时稳定系统及部件的温度，提高了耐久性，并进一步降低整机噪音。

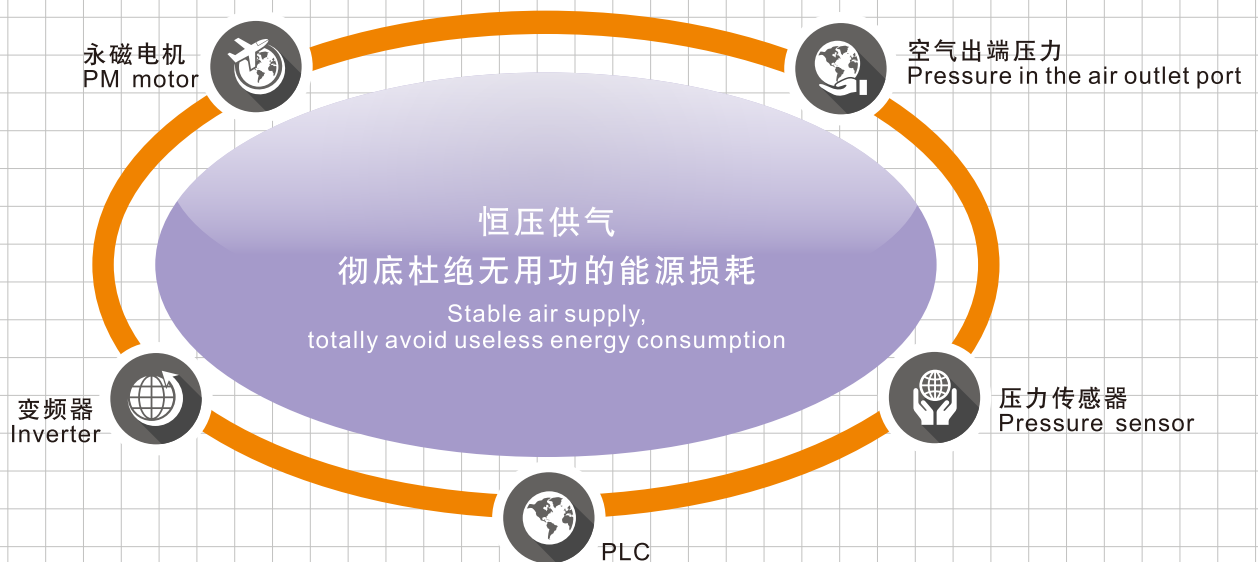
The variable frequency control of the cooling fan saves about 50% energy. The fan motor rotating speed would be adjusted according to the air discharged temperature, thus to reduce the energy consumption. Meanwhile, the system is more reliable because of a stable system temperature. The noise is also lower because of variable speed fan motor.



5/ 杜绝无用功损耗 Eliminate Power Waste

压力传感器检测排气口的压力，把信号传输给PLC，PLC根据压力传感器的压力大小来控制变频器的输出频率，当压力大时，减小频率；当压力小时，增大频率，使压力始终恒定。压缩机通过变频器来控制永磁电机转速，这样就组成了一个变频闭环控制系统，实现恒压供气、多用多产、少用少产、不用即停、有用即软启动产气，彻底杜绝了无用的能源损耗。

The pressure sensor detected the pressure in the air outlet port, and send signal to the PLC. The PLC controls the output frequency of the inverter according to the pressure from the pressure sensor. And it decreases the frequency when the pressure is higher and increases the frequency when the pressure is lower, so that the pressure is always stable. The compressor controls the rotating speed of the PM Syn. motor with the inverter. In this way, a closed variable frequency control system is confirmed and realizes a stable air supply. More air output if more air consumption, less output while less consumption, and stop while no consumption. Then soft start again if there is air consumption again. The useless energy waste is totally eliminated.



6/ 工作频率范围更宽广，噪音低 Wider frequency range, Low noise

变频范围从25%-100%，系统用气量波动越大，节能效果明显。

正常运行67db，低运行噪音使其适用于任何场合。

The FM range is from 25%~100%. The more fluctuated the air consumption volume is, the more energy it can save. The normal operation noise of 67 dBA is acceptable is most occasions.

可以省多少?

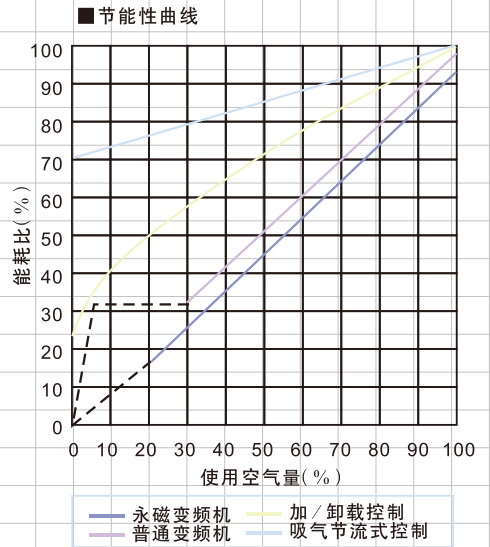
生产压缩空气的能耗可能超过企业总能耗的40%可显著降低能耗。
VS(变转速驱动)压缩机可以根据实际用气量来调节产气量，
从而减少额外25~44%的能耗。

葆德永磁变频空压机通过以下几点降低能耗

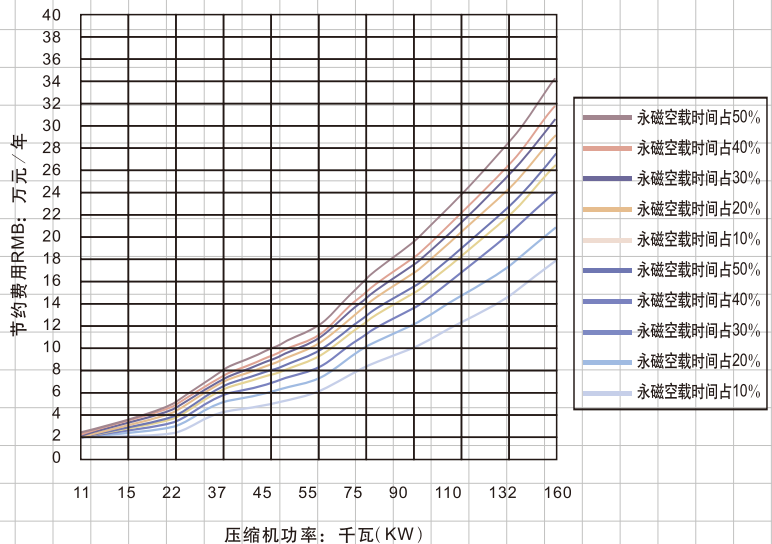
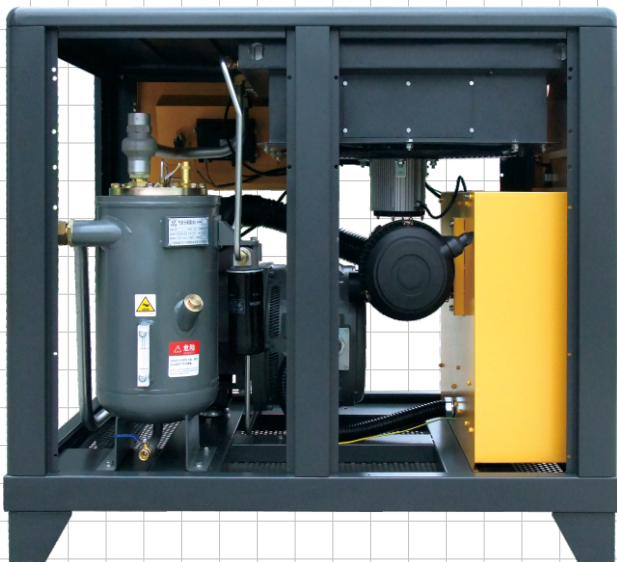
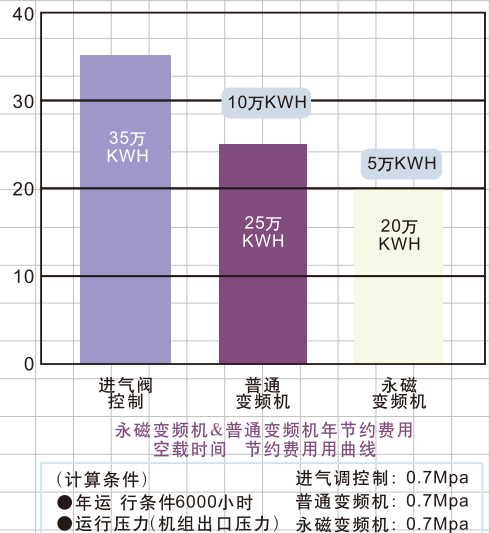
- 消除从满载到卸载的低效转换过程。
- 葆德永磁(PM)电机，与其他厂家生产的普通变频器相比，
节能约6~7%，内嵌式一体轴直连结构，传动效率提高5%。
- 变频恒压消除空载，避免卸载功耗。
- 维持管道恒压偏差在0.01Mpa以内。
- 降低平均工作压力。
- 减少系统泄漏。
- 软启动特性增加了电机电流平衡，避免了电流冲击。
- 提供4至13bar压力的自由选择，可最大程度降低能耗。

How can BALDOR PM VSD compressors save energy?

Elimination of the unloading energy consumption. PM compressor is loading all the working time and directly stopped while no air consumption. The airend is integrated combined with the PM syn. motor with a 100% transmission efficiency. No transmission energy loss in situation of belt driven, gears driven or coupling driven. The PM Syn. motor is always highly efficient even in a low rotating speed. The PM motor is about 5% more energy saving than the normal Asyn. induction motor with the same power KW. The air output pressure is stable for the PM VSD compressor while it is fluctuated for the normal fixed speed compressor. The FM range for PM VSD compressor is 25%~100% while the FM range for the normal VSD compressor is 50%~100%. The energy consumption is less for a stable air output.



● 每年电费例(使用空气量比50%)
55KW普通变频机和永磁变频机的例子



一年运行6000小时，电价1.0元/度计算，以上数据均为理论测算。

购买空压机时，传统意义上的成本 (即购买成本+保养成本)，其比例只占到总成本的25%，

而能源消耗却占到了75%。

普通(变频)空压机比普通(工频)空压机节能22-30%;

葆德永磁变频空压机 比普通(工频)空压机节能33-40%。

The traditional cost which is normally the purchasing cost and maintenance cost counts for 25% of the total cost of using a compressor, while the energy consumption cost counts for 75%!

Normal VSD compressor is about 22%~30% more energy saving than the fixed speed compressor, while BALDOR PM VSD compressor is about 33%~~40% more energy saving than the fixed speed compressor.

1、一台75KW的普通空压机，一年运行8000小时，电费0.62/度，一年的电费为:

75Kw x8000小时 x 0.62/Kw· h = **37.2万元**

2、葆德永磁变频75KW空压机，一年可节约大约35%的电能，共计: 37.2万元 x35%=13.02万元

3、投资回收期(ROI)：约一年。

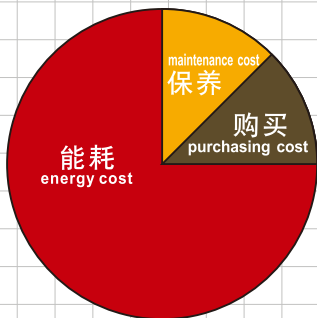
Take one set of normal 75KW fixed speed compressor for an example. If running 8000h a year, and It cost 0.1 USD per Kw h electricity energy. Then the annual electricity cost is:

75KW * 8000h *0.1 USD/Kwh= 60000USD

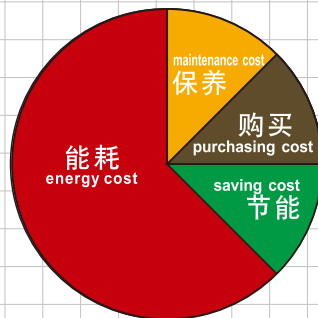
One set of BALDOR 75KW PM VSD compressor can save about 35% energy per year.

That is 60000USD* 35%=21000 USD

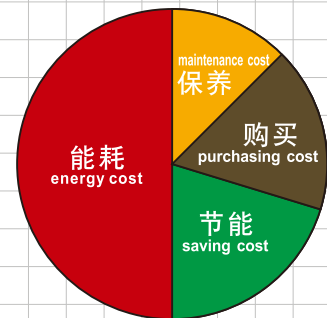
The payback period is about one year for the BALDOR PM VSD COMPRESSOR.



普通(工频)空压机
Normal Air Compressor



普通(变频)空压机
VFD Air Compressor



葆德永磁变频空压机
BALDOR PM VFD Compressor

一年运行8000小时，直接省电：

List of saving energy(kw· h)for each power compressor
Condition: run8000 hours per year

功率(KW) power	15KW	18.5KW	22KW	37KW	45KW	55KW	75KW	90KW	110KW	132KW
省电(KW.h) Saving	42000	51800	61600	103600	126000	154000	210000	252000	308000	369600

BALDOR

葆德空压机

gather in space, fire on time

葆德永磁变频空压机——行业领军品牌

Baldor PM VSD Compressors——the leading brand in the compressor industry

网址Web: www.baldor-tech.com

BALDOR
gather in space, fire on time

广东葆德科技有限公司
Guangdong Baldor-tech Co., Ltd.



地址: 广东省佛山市三水区乐平乐民大道3号

Add: No.3 Lemin Avenue, Leping Town, Sanshui Dist., Foshan, Guangdong

电话Tel: 0086-757-81805830

邮箱E-mail: Elsa@baldor-tech.com

传真Fax: 0086-757-87398119

葆德设计和制造的空气压缩机所产生的压缩空气不适用于直接呼吸用气。因此不承担由于使用不当而造成后果的任何责任和义务。

BALDOR design and manufacture of compressed air generated by air compressor does not apply to direct breathing gas. Therefore does not bear the consequences as a result or improper use of any responsibilities and obligations.

本样本对产品的描述不代表我们将延长对产品的保修期,任何与此产品相关的担保等条款必须根据葆德销售此类产品的标准条款执行。如:销售中客户需要,我们立即可提供此类条款。

The sample of the product description does not mean we will extend the warranty on the product and any warranty with this product and other provisions related to sales of such products must be based on the standard BALDOR implementation of the provisions such as sales of customer needs, we immediately provide such provisions

改进产品是葆德的持续目标,设计和技术规格如有变化,恕不另行通知或受到约束。

The continued improvement of products is BALDOR objectives. design and technical specifications subject to change without prior notice or bound.

V. 1505