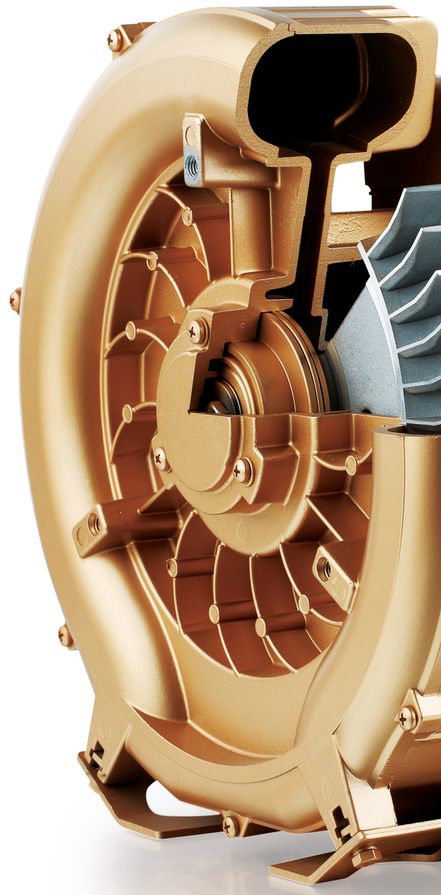
REXCHIP® 瑞晶

SINCE GERMANY 德国工艺，服务全球



REXCHIP® 瑞晶

臺州瑞晶機電有限公司

TAIZHOU REXCHIP MECHANICAL AND ELECTRICAL CO.,LTD.

地址：浙江省臺州市温嶺市泽門鎮創業路 28 號

Address: #28 Chuangye Road, Songmen Town,
Wenling, Taizhou city, Zhejiang, China.

電話 Tel：0086-0576-89975768

傳真 Fax：0086-0576-89975769

網址：https://www.rexchipblower.com

郵箱：info@rexchipblower.com

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COMPANY INFORMATION

公司簡介

臺州瑞晶機電有限公司是一家具有自主知識產權，集開發、設計、生產制造爲一體的現代化綜合企業。致力于高壓風機、漩渦氣泵、氣環真空泵的設計、生產和銷售，并獲得優秀的市場口碑和廣泛的客户喜愛。同時不斷加大科研和技改的投入，穩步提升產品品質和競争力，逐步成爲中國風機行業的佼佼者。

公司以生産世界最頂端産品爲目標，引進和吸收德國先進的子流體機械技術。産品零部件均采用優質鋁合金一次性模具壓鑄成型，同時利用進口高精度數控機床加工而成。産品安全可靠，穩定耐用，品質如一，并以其新穎設計，獨特工藝和優越的性價比，暢銷全國、西歐及北美等地區。始終遵循 ISO–9001 國際質量管理體系的、ISO14001 環境管理體系。

員工培訓一直是我們瑞晶機電工作重點之一，我們堅信優秀穩定的從業人員是我們競争力的來源，也是公司立于不敗之地的基石。秉着“不斷超越，與時俱進”的理念，定期對員工進行培訓，全面提高員工各方面素質。

“客户的需求即是我們的追求”，積澱了雄厚的技術資源的瑞晶機電真誠歡迎海内外各界朋友到我司莅臨參觀指導，共創輝煌。

TAIZHOU REXCHIP MECHANICAL AND ELECTRICAL CO.,LTD. is a modern integrated enterprise locates in Taizhou China, with independent intellectual property rights, which intergrates its development, design and manufacture into a whole. Company covers 10,000 square meters with three manufacturing buildings. Committed to ring blower, side channel blower design, production & sales.

To produce the world' s most top products is our purpose. The product is adopted the fluid machine techniques imported from Germany, molded with. Aluminum alloy, processed on precision CNC machine, make it more reliable & durable. With outstanding performance and excellent quality and superior cost efficiency, the products sell well throughout the country, and are exported to West Urope & North America.

Staff training has always been one of the priorities, Holds"continued beyond the times", improve the quality of all staff.

"Customer demand is our pursuit", We sincerely welcome friends from various circles at home and abroad come to visit. Meanwhile, we await for you to co-create the brilliant.







經營理念 “以誠爲本、開拓創新、共享雙赢”
Credit, innovation, achieve “win–win”

公司宗旨 “客户的需求就是我們的追求”
Customer demand is our pursuit

精神風氣 “嚴謹、團結、 奉獻、進取”
Rigorous，unity, dedication, progres

質量方針 “嚴謹、團結、奉獻、進取”
Rigorous，unity, dedication, progress



PRODUCTION ENVIRONMENT
生產環境

全新模式，以智造占得时代先机

在互聯網 + 的時代背景下，率先啓動工業 4.0 戰略，引進先進生產設備、專業化技術團隊和高效化管理團隊，逐步對企業進行智能化、工業化、信息化相結合的改進升級，最終完成制造轉型升級，提升品牌根本創新力和競爭力。

A brand new mode: to take the lead with Chi-made products

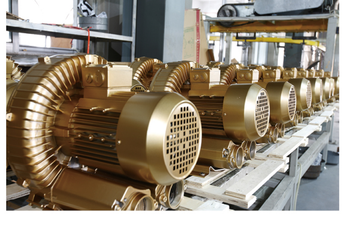
In the Internet + background, takes the lead in carrying out the industry 4.0 strategy. We introduced advanced production equipment, specialized technical team and efficient management team. Thus, we gradually performed the intelligent, industrial and information upgrading, and finally realized manufacturing transformation and upgrading, which enhances our innovation ability and competitiveness.

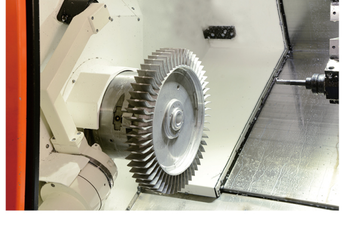














CERTIFICATE
證書













































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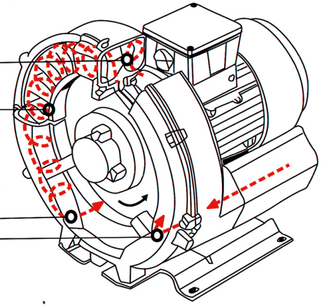
REXCHIP® 瑞晶

OUT
新视野 新未来

LOOK
NEW FUTURE VISION

OPERATING PRINCIPLE
氣環泵工作原理

側通道 Side Channel ②
葉輪 Impeller ③
出氣口 Outlet ④
進氣口 Intolet ①



氣環泵葉輪直接安裝在電機轉子上，是完全地無接觸壓縮。由于泵軸安裝在壓縮腔外，所以即便工作在最大的壓差下，也能確保機械的最大工作可靠性。

氣體由吸氣口 1 吸入，但它進入側通道 2 以後，旋轉葉輪 3 在旋轉方向上給氣體一個速度同時葉片上離心力使氣體向外加速且壓力增加。

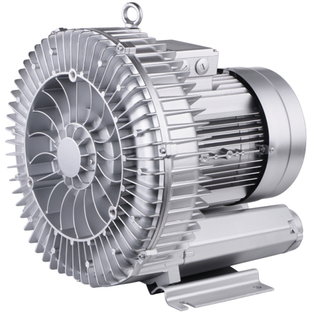
隨着旋轉的進行，氣體的動能增加，使的沿側通道的氣體壓力進一步增加。隨着側通道在出口變窄，氣體被擠出葉片并通過出口消聲器 4 排出泵體。

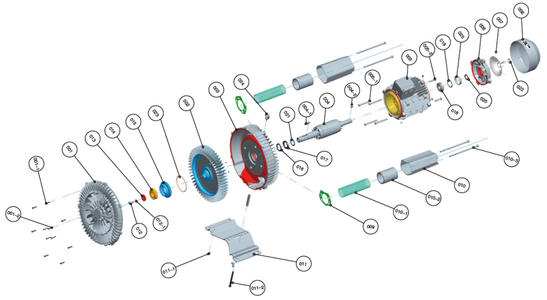
The impellers are mounted directly on the motor shaft for noncontact compression entirely without friction.Maximum operational reliability, even at high differential is ensured by the arrangement of the bearings outside the compression chamber.

The gas it taken in though the inlet1.As it enters the side channel 2,the rotating impeller 3 imparts velocity to the gas in the direction of rotation. centrifugal force in the impeller blades accelerates the gas outward and the pressure increase .Every rotation adds kinetic energy.

Resulting in the further increase of the pressure along the side channel .The side channel narrow at the rotor,sweeping the gas off the impeller blades and discharging it though the outlet silencer 4 where it exits the side channel blower.

VACUUM PUMP CHART
氣環泵組成結構圖





編號	部件名	編號	部件名	編號	部件名	編號	部件名
001	泵蓋 pump cover	011	底座 base	021	墊片 washer	005–2	螺釘 screw
002	葉輪 impeller	012	螺釘 screw	022	卡簧 circlip	010–1	消音網罩 mesh enclosure
003	泵體 pump casing	013	轉子壓板 pressure–plate	023	O 型密封圈 o–ring	010–2	消音海綿 soundproof sponge
004	電機轉子 rotator	014	軸承 screw	024	吊環 hand ring	010–3	螺釘 screw
005	電機 motor	015	固定座 fixing base	025	軸承包絡圈 wrap ring	011–1	螺釘 screw
006	電機後蓋 motor cover	016	氈環 felt ring	001–1	螺釘 screw	011–2	螺釘 screw
007	風葉 fan	017	油封 oil seal	001–2	螺釘 screw	012–1	彈簧墊圈 lock washer
008	風罩 fan cover	018	軸承 screw	004–1	平鍵 flat key		
009	泵體紙墊 paper pad	019	波浪墊片 ware washer	004–2	平鍵 flat key		
010	消音筒 Muffle Tube	020	油封 oil seal	005–1	螺釘 screw		

ADVANTAGES
特點優勢

- 改進傳統工藝，是軸承前置，增加了工作穩定性
  Improvement of traditional crafts, bearing front, increased stability

- 采用部分進口配件，延長使用壽命
  Using some of the imported parts, lengthen service life

- 機殼采用優質鋁合金一次性壓鑄成型，零部件的加工在切削加工中完成，
  保證精度改進傳統工藝
  The shell adopts the high quality aluminum alloy one-time die-casting molding, machining parts
  Completed in the cutting process, ensure the accuracy improvement of traditional technology

- 葉輪的設計經過精確計算論證，使同功率下性能比同類產品提高 20%
  The design of the impeller through the accurate calculation of argumentation, the performance under the same power ratio
  Similar products increased by 20%

THE PERFORMANCE ADVANTAGES
性能優勢

- 100% 無油，無水壓縮，所有的氣環真空泵的電機均爲 IP55 的防護等級，F 級絶緣
- 雙頻（50/60HZ）及寬電壓能滿足幾乎世界上所有地區的電壓等級，軸承外置設計，能承受較高的工作温度，提高了運行可靠性和使用壽命
- 引進變頻驅動新概念，比用普通電機驅動的性能最大可以提高到 300%，葉輪與泵體間的獨特的密封形式減少氣體壓縮過程中的壓力損失
- 泵殼、葉輪采用壓鑄模具成型，堅固耐用，散熱優良，采用德國、日本進口精密機床加工切割，保證精度與品質，氣泵表面經過防護漆處理
- 産品經過嚴格機械、電氣等各方面性能測試，采用 PROE、UG 、CAD 等電腦輔助設計軟件和運動模擬仿真演示

- 100% oil free compressed gas, water ring vacuum pump, motor, all are the protection class IP55, class F insulation
- Dual frequency (50/60HZ) and wide voltage can meet almost all regions of the world the voltage level, the external design of the bearing, can bear high working temperature, improves the reliability and service life
- The introduction of variable frequency drive new concept, than the maximum performance can be driven by a common motor is improved to 300%, impeller and pump body seal forms the unique reduced pressure gas pressure loss in the process of compression
- Pump casing, impeller die-casting molding, sturdiness and durability, excellent heat dissipation, imported Japan Germany, precision machine tool cutting, ensure the accuracy and quality, air pump through the surface of protective paint processing
- Products through the strict mechanical, electrical performance test, simulation demonstrate the use of PROE, UG, CAD and other computer aided design software and motion

SPECIFICATIONS COMPLETE, FAMOUS ALL OVER THE WORLD
規格齊全 享譽全球

- 多達 100 多種的產品型號可滿足您各種具體應用的要求，采用寬電壓雙頻 (50/60HZ) 電機，防護等級 IP55(絶緣等級 F 級)，在世界的任何地方，都可以應用瑞晶機電氣環真空泵。并且無論是在歐洲、中東、東南亞，瑞晶機電都能在很短的時間内交貨，我們批量庫存的產品可以隨時滿足您的需求。

- As many as 100 kinds of products can meet your specific application of various requirements, with wide voltage frequency (50/60HZ) motor, protection class IP55 (class F insulation), anywhere in the world, can be applied to wind morale ring vacuum pump. whatever in Europe, Middle East, Southeast Asia, can be delivered in a very short period of time, our volume inventory of products can meet your needs.

VARIABLE FREQUENCY DRIVE ENERGY EFFICIENCY
變頻驅動 高效節能

- 當在電機或控制櫃上直接安裝一個變頻率，同樣型號的氣環真空泵、壓縮機可以在節能的同時處理更多流量的氣體。這是由于精確的控制系統總能提供您需要的準確動力，從而避免額外的氣量消耗，使系統運行費用大大減低。

- Directly when installing a variable frequency motor or the control cabinet, the gas ring vacuum pump, compressor of the same type can handle more traffic in energy saving at the same time. This is because always precise control system to provide accurate power you need, so as to prevent additional gas consumption, the system running cost greatly reduced.

FLEXIBLE INSTALLATION
靈活的安裝方式

- 能按任何軸向安裝，没有任何限制，這意味着降低了空間要求和安裝費用
- Can be mounted in any direction, without any restrictions, which means that reduces the space requirements and installation costs

TOTAL QUALITY MANAGEMEN
全面的質量管理

- 根據 ISO9001:2000 的標準，瑞晶機電總是把質量和客户滿意放在第一，從最初的設計、開發、生産、訂單處理以及隨後的顧客支持，我們總是提供給你最好的、遍及整個産品全部周期的系統服務。瑞晶機電産品的技術進步和市場成功與它的高質量是密不可分。爲了保證産品的高質量，從産品的設計到供貨，瑞晶機電已建立了用于監督生産各個環節的可靠的質量保證系統。這個質量保證系統符合相關的標準約定，并通過 ISO9001 認證，滿足全世界的要求。同時歡迎 OEM，ODM 等定制品開發，針對客户的使用要求和場合開發滿意的新産品。

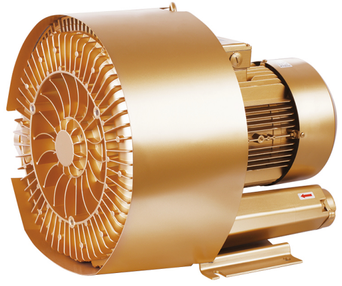
- According to the standard of ISO9001:2000, wind, always put the quality and customer satisfaction in the first place, from the initial design, development, production, order processing and subsequent customer support, we will always provide you the best service, system throughout the product cycle. Technology progress and market success of wind and products with its high quality is inseparable. In order to guarantee the high quality of products, from product design to delivery, wind, have been established for the reliable quality of each link of supervision to ensure production system. The quality assurance system in conformity with the agreed standards, and through the ISO9001 certification, to meet the requirements of the world. Also welcome OEM, ODM set product development, new product usage requirements and situations develop satisfactory.

4HB
最高壓差

- 我們富有革命的 4HB 氣環真空泵能產生高達 1,000mbar 的壓差————遠遠高于其它任何的氣環式壓縮機。截止目前，能產生壓差範圍的其它系統要比我們的 4HB 體積更龐大，噪音更高，而且容易磨損。現在，除了擁有低噪音，無磨損等這些優點外，我們的 4HB 還能在更苛刻的條件下應用。我們的工程師和設計者們還在不斷努力以使我們的產品變得更加安静。4HB 氣環真空泵能在不停機維護的條件下連續工作 20，000 小時。

- Our revolutionary 4HB gas ring vacuum pumps can generate up to 1000mbar of differential pressure –– –– far higher than any other of the gas piston compressor. At present, the other system can produce pressure range than our 4HB volume larger, more noise, and easy to wear. Now, in addition to having low noise, no wear etc. these advantages, our 4HB can also be used in more severe conditions. Our engineers and designers are trying to make our products become more quiet. 4HB gas ring vacuum pump can work continuously for 20000 hours without downtime maintenance conditions.

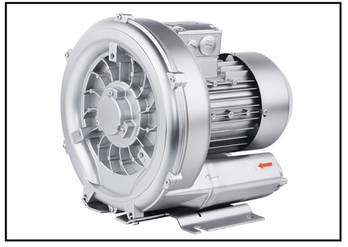


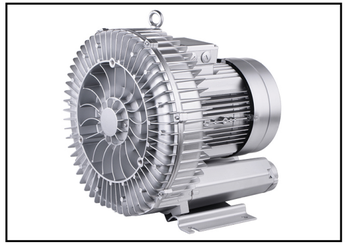


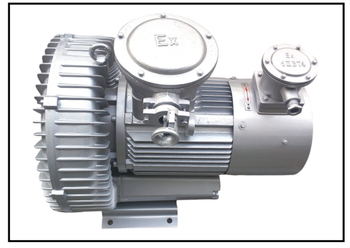


HOW TO SELECT MODEL
如何選型

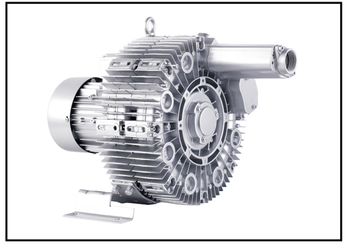
- 瑞晶機電氣泵選型有哪些型號、參數？ /REXCHIP air pump selection which models, parameters ?
- 如何選出性能最匹配的產品？ /How to select the most matching performance products ?

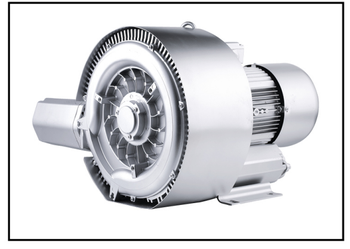




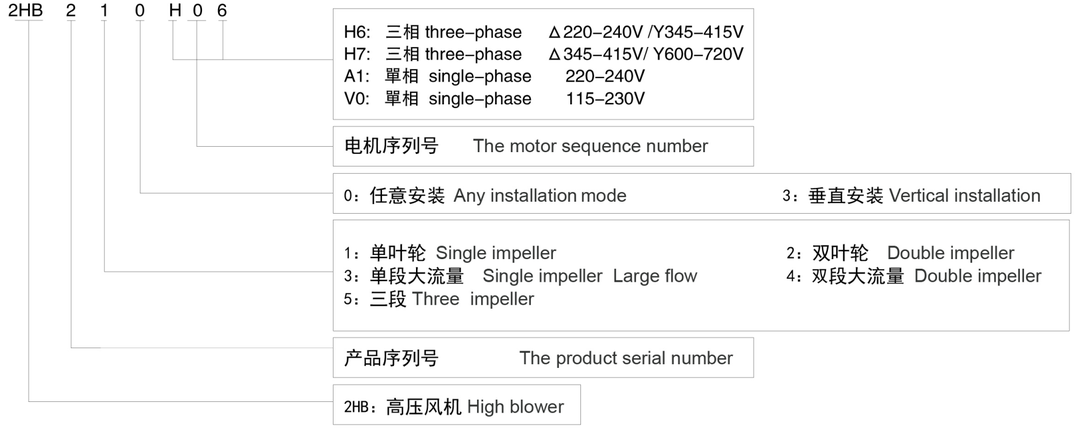








DEMONSTRATION OF THE TYPE
型號説明



ABSOLUTE PRESSURE
絶對壓力

- 絶對壓力是以理想真空（絶壓爲零）爲基準而得到的測量值。所以絶壓是比參考值大
- Absolute pressure in vacuum (absolute pressure is zero) as the reference and the measured values obtained. So the pressure is greater than the reference value

GAUGE PRESSURE
表壓

- 表壓是指高于標準大氣壓力的測量值。即以標準大氣爲基準，因此實際測量值總是比基準值大
- Gauge pressure is that measurement is higher than the standard atmospheric pressure value. The standard atmosphere for reference, so the actual measured value is larger than the reference value

VACUUM DEGREE 真空度

- 真空度是指低于標準大氣壓力的測量值。測量基準仍爲標準大氣壓，所以實際測量值小
- The vacuum is that measurement is lower than standard atmospheric pressure value.Measurement benchmark is still the standard atmospheric pressure, so the actualmeasured value

CONVERSION TABLE 換算表

風 量 Air volume		
初始單位	換算因子	目標單位
The initial unit	conversion constant	Target unit
l/min	0.06	m^3/h
gal/min	0.227	m^3/h
$ft^3/min(cfm)$	1.699	m^3/h
m^3/h	16.667	l/min
m^3/h	4.403	gal/min
m^3/h	0.588	$ft^3/min(cfm)$

壓 力 Pressure		
初始單位	換算因子	目標單位
The initial unit	conversion constant	Target unit
Pa	0.01	mbar
hpa	1.0	mbar
kpa	10.0	mbar
mmH20(mmAq)	0.098	mbar
mH20	98.07	mbar
at	980.7	mbar
inchH20	2.491	mbar
PSIlpdf/in2	68.948	mbar

SELECTION AND USE OF KNOWLEDGE
選型及使用需知

1. DIN VDE 0105 或 IGC 364 規定，非資格人員不得從事電氣設備的工作。
   資格人員 : 是指有廠區安全負責人授權的人員。他們根據自有的培訓、經驗、相關標準的知識及對事故預防的能力來完成某項必要的工作，同時能意識到潛在的危險并采取必要的防範措施。有必要的生命急救知識，熟悉相關的生命救護設備。
   DIN VDE 0105 or IGC 364 regulations, non qualified personnel shall not be engaged in electrical equipment work. Qualified personnel: refers to the factory safety responsible person authorized personnel. According to their own training, experience, knowledge and ability related standards on prevention of accidents to complete a necessary work, and to realize the potential The risk and take the necessary preventive measures.
   It is necessary to life first aid knowledge, familiar with the life rescue equipment related.

2. 隨設備而來的操作說明書不可能包含所有涉及要素的詳細信息，尤其不可能把每一種可能的安裝，操作及維護方式都涉及到。因此這些操作手册衹包括能讓資格
   人員正確操作機器或設備的必要信息。因此有必要澄清一下，如果缺乏產品的詳細參數，或有相關操作等疑問 , 請根據此產品的設備類型和加工代號，聯系我們。
   Came with the equipment operating instructions may not contain detailed information all of the factors related, in particular, can not put every possible installation, are related to the operation and maintenance of way. The manual includes only can let the qualification Information necessary for correct operation personnel of machines or equipment. Therefore, it is necessary to clarify, if lack of detailed parameters of products, or related questions, please according to the type of equipment and processing code for this product, contact us

3. 允差：電機符合 DIN EN 60 034/DIN IEC 34–1 標準，絶緣等級 F。
   Tolerance standard: motor meets the standard of DIN EN 60 034/DIN IEC 34–1, insulation class F.

4. 在選型時注意，要根據使用現場的具體情況，是側重于流量還是壓力等相關因素， 選擇最合適，性價比最高，最節省能源的方案。必要時使用釋壓閥、過濾器等輔助配件，以便更好的等發揮設備的性能和匹配現場。
   In the selection of attention when, according to the specific circumstances of the scene, is focused on the flow or pressure and other related factors, choose the most suitable, cost–effective, the energy is saved. The use of pressure release valve, filter when necessary And other auxiliary parts, in order to better play the performance of equipment and matching field.

5. 啓動前及啓動準備檢查緊固件有無鬆動、脱落，外殼不變形錯位，完好無損 / 接綫方式、電源電壓等符合要求 / 外殼接地，安裝漏電保護器 / 檢查電機轉向是否正確正常運轉時，應平穩、震動、温升噪音均正常
   Start up and ready to check the fastener without loosening, shed off 5 before the start, shell not deformation dislocation, intact / wiring, power supply voltage, meet the requirement / shell grounding, installation of leakage protector / check the shift motors Ensure normal operation should be smooth, vibration, noise, temperature rise were normal

6. 氣泵在運轉過程中，如出現噪音异常增大、尖叫、振動加大、温度异常升高應立即切斷電源進行檢查，待故障排除後再通電運轉
   Pump during operation, such as noise, vibration, increase the abnormal increase of screaming, abnormal temperature rise should be cut off the power supply immediately checked, troubleshooting to be re energized.

2HB/1AC SINGLE, DOUBLE IMPELLERGAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE（IP55 50/60HZ）

2HB / 1AC（單、雙級）氣環真空泵型號及性能參數表（IP55 50/60HZ）

型 號 (2HB) Model	單級	馬達額定參數				最大	額定	額定	噪音	重量
	雙級	頻率	功率	電壓	電流	排吸流量	真空壓力	壓縮壓力		
	single	frequency	power	voltage	current	Max airflow	rated Vacuum	rated compress	noises	Weight
	double	HZ	KW	V	A	m3/h	mbar	mbar	dB(A)	Kg
010 A01	單	50	0.12	220–240V	1.2	55	–60	60	46	5
		60	0.14	220–240V	1.1	68	–60	60	48	
110 A01	單	50	0.20	220–240V	1.43	70	–100	100	48	7
		60	0.23	220–240V	1.3	85	–110	120	50	
210 A01	單	50	0.25	220–240V	2.7	80	–110	120	53	9
		60	0.29	220–240V	3.2	98	–140	150	56	
210 A11	單	50	0.4	220–240V	2.7	80	–120	130	53	11
		60	0.5	220–240V	3.0	96	–150	160	56	
220 A11	雙	50	0.7	220–240V	4.5	88	–210	240	55	16
		60	0.83	220–240V	5.6	103	–250	250	61	
230 A11	單	50	0.4	220–240V	2.7	100	–110	110	54	11
		60	0.5	220–240V	3.0	120	–130	140	57	
310 A01	單	50	0.55	220–240V	3.7	100	–120	130	55	13
		60	0.62	220–240V	4.5	120	–120	130	57	
310 A11	單	50	0.7	220–240V	4.8	100	–150	150	55	14
		60	0.8	220–240V	4.1	120	–150	160	57	
320 A31	雙	50	1.3	220–240V	7.3	120	–240	280	58	17
		60	1.5	220–240V	8.3	145	–230	260	60	
330 A11	單	50	0.7	220–240V	4.8	145	–100	100	58	14
		60	0.8	220–240V	4.1	165	–110	100	60	
410 A01	單	50	0.7	220–240V	4.5	145	–120	120	63	15
		60	0.83	220–240V	5.6	175	–130	130	64	
410 A11	單	50	0.85	220–240V	5.0	145	–160	160	63	16
		60	0.95	220–240V	5.8	175	–160	160	64	
410 A21	單	50	1.3	220–240V	7.3	145	–170	200	63	17
		60	1.5	220–240V	7.8	175	–210	220	64	

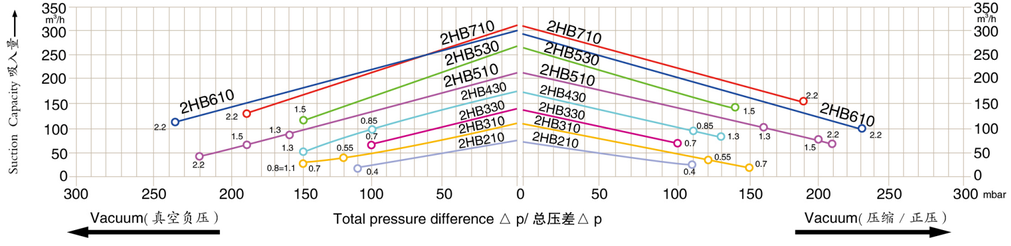
2HB/1AC SINGLE, DOUBLE IMPELLERGAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE（IP55 50/60HZ）

2HB / 1AC（單、雙級）氣環真空泵型號及性能參數表（IP55 50/60HZ）

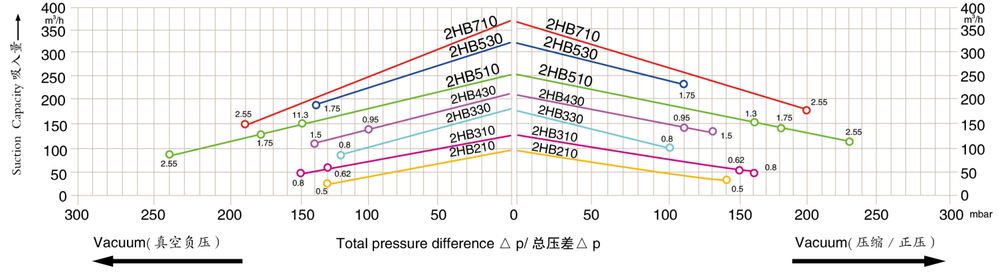
型 號 (2HB) Model	單級	馬達額定參數				最大	額定	額定	噪音	重量
	雙級	頻率	功率	電壓	電流	排吸流量	真空壓力	壓縮壓力		
	single	frequency	power	voltage	current	Max airflow	rated Vacuum	rated compress	noises	Weight
	double	HZ	KW	V	A	m3/h	mbar	mbar	dB(A)	Kg
420 A31	雙	50	1.5	220–240V	9	150	–260	260	66	28
		60	1.75	220–240V	9.5	180	–300	290	69	
420 A41	雙	50	2.2	220–240V	10	150	–265	265	66	31
		60	2.55	220–240V	11	180	–310	300	69	
430 A11	單	50	0.85	220–240V	5.2	180	–100	110	64	16
		60	0.95	220–240V	5.8	210	–100	110	66	
430 A21	單	50	1.3	220–240V	7.3	180	–150	140	64	17
		60	1.5	220–240V	8.3	210	–140	130	66	
510 A01	單	50	0.85	220–240V	5	210	–160	160	64	20
		60	0.95	220–240V	5.8	255	–145	140	70	
510 A11	單	50	1.3	220–240V	7.3	210	–170	170	64	22
		60	1.5	220–240V	8.3	255	–150	140	70	
510 A21	單	50	1.5	220–240V	9	210	–200	190	64	24
		60	1.75	220–240V	10	255	–220	210	70	
510 A31	單	50	2.2	220–240V	10	210	–220	270	64	26
		60	2.55	220–240V	11	255	–260	290	70	
530 A21	單	50	1.5	220–240V	9	270	–150	140	65	28
		60	1.75	220–240V	10	330	–120	110	71	
610 A11	單	50	2.2	220–240V	10	270	–230	250	64	30
		60	2.55	220–240V	11	315	–250	270	70	
710 A11	單	50	2.2	220–240V	12	318	–190	190	72	30
		60	2.55	220–240V	12.8	376	–190	200	74	

2HB/VACUUMCOMPRESSION TYPE CURVE
真空壓縮選型曲綫 1AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 **50 Hz Compressor Selection Diagram 50 Hz-- 壓縮選型圖表 50 Hz**

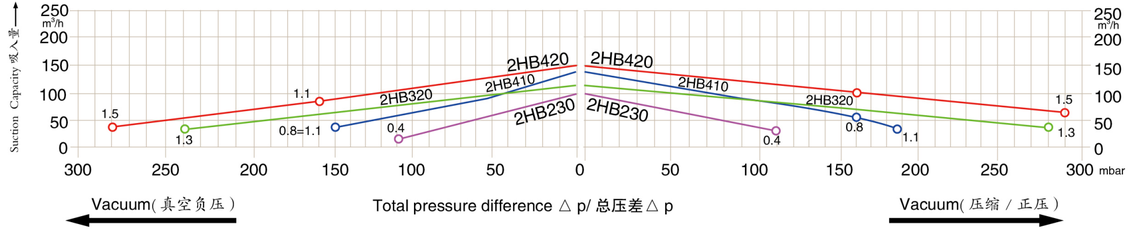


Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz **Compressor Selection Diagram 60 Hz-- 壓縮選**

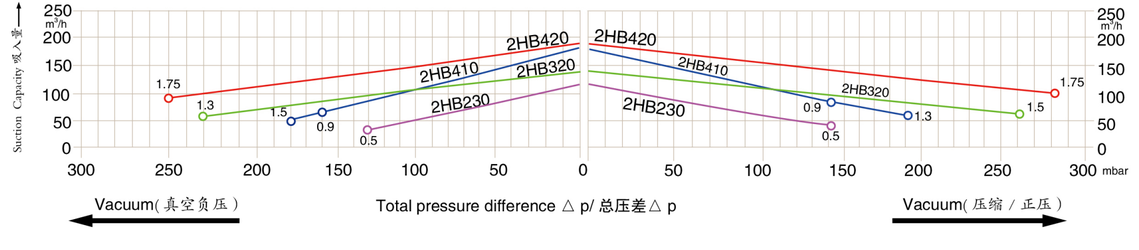


2HB/VACUUMCOMPRESSION TYPE CURVE
真空壓縮選型曲綫 1AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz **Compressor Selection Diagram 50 Hz-- 壓縮選型圖表 50 Hz**



Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz **Compressor Selection Diagram 60 Hz-- 壓縮選型圖表 60 Hz**



2HB2/3AC SINGLE, DOUBLE IMPELLERGAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE（IP55 50/60HZ）

2HB/3AC（單、雙級）氣環真空泵型號及性能參數 (IP55 50/60HZ)



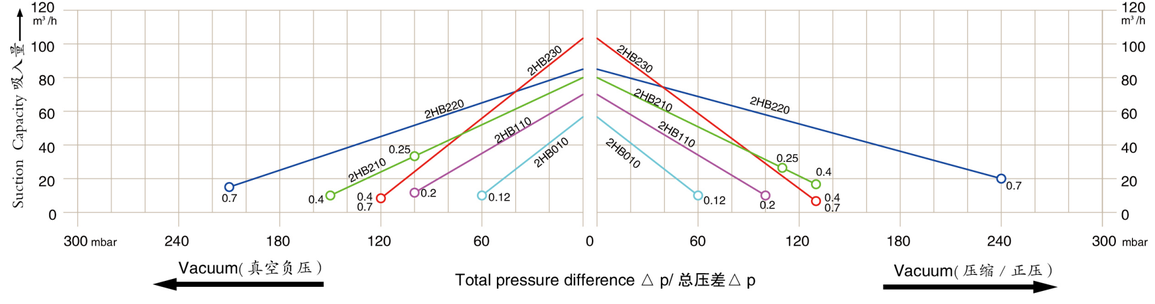


型號 (2HB 3AC) Model	單級 / 雙級 single / double	頻率 frequency	馬達參數 功率 power	額定電壓 voltage		額定電流 current	最大 排吸流量 Max airflow	額定 真空壓力 ratedVacuum	額定 壓縮壓力 rated compress	噪音 noises	重量 Weight
		HZ	KW	V		A	m3/h	mbar	mbar	dB(A)	Kg
2HB 010 H06	單	50	0.12	200–240Δ	345–415Y	1.2Δ/0.9Y	55	–60	60	46	5
		60	0.14	220–275Δ	380–480Y	1.2Δ/0.9Y	68	–80	80	48	
2HB 110 H06	單	50	0.20	200–240Δ	345–415Y	1.75Δ/1.0Y	70	–100	100	48	7
		60	0.23	220–275Δ	380–480Y	1.75Δ/1.0Y	85	–110	110	50	
2HB 210 H06	單	50	0.25	200–240Δ	345–415Y	2.6Δ/1.5Y	80	–100	110	53	9
		60	0.29	220–275Δ	380–480Y	2.6Δ/1.5Y	98	–110	110	56	
2HB 210 H16	單	50	0.4	200–240Δ	345–415Y	2.6Δ/1.5Y	80	–120	130	53	10
		60	0.5	220–275Δ	380–480Y	2.6Δ/1.5Y	98	–150	160	56	
2HB 230 H16	單	50	0.4	200–240Δ	345–415Y	2.6Δ/1.5Y	105	–120	130	54	11
		60	0.5	220–275Δ	380–480Y	2.6Δ/1.5Y	120	–150	155	57	
2HB 230 H26	單	50	0.7	200–240Δ	345–415Y	3.8Δ/2.2Y	105	–120	130	54	12
		60	0.83	220–275Δ	380–480Y	3.8Δ/2.2Y	120	–165	180	57	
2HB 220 H26	雙	50	0.7	200–240Δ	345–415Y	3.8Δ/2.2Y	85	–210	240	55	16
		60	0.83	220–275Δ	380–480Y	3.75Δ/2.15Y	102	–250	250	61	

2HB2/VACUUMCOMPRESSION TYPE CURVE

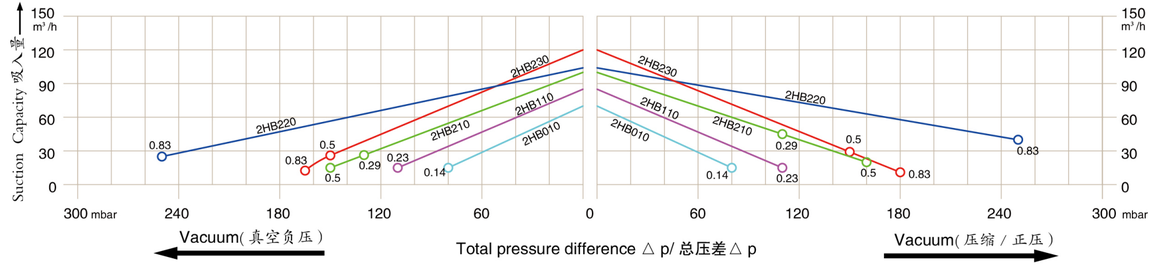
真空壓縮選型曲綫 3AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz



Compressor Selection Diagram 50 Hz-- 壓縮選

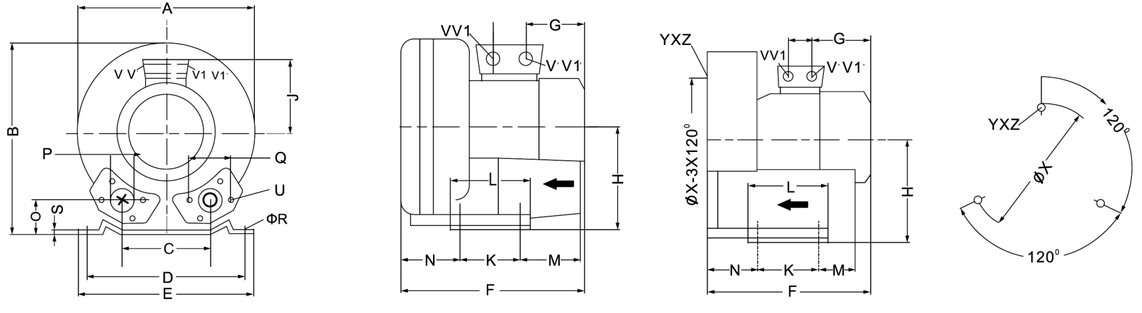
Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz



Compressor Selection Diagram 60 Hz-- 壓縮選

2HB2 SINGLE STAGE MOUNTING DIMENSIONS
2HB2 單級安裝尺寸

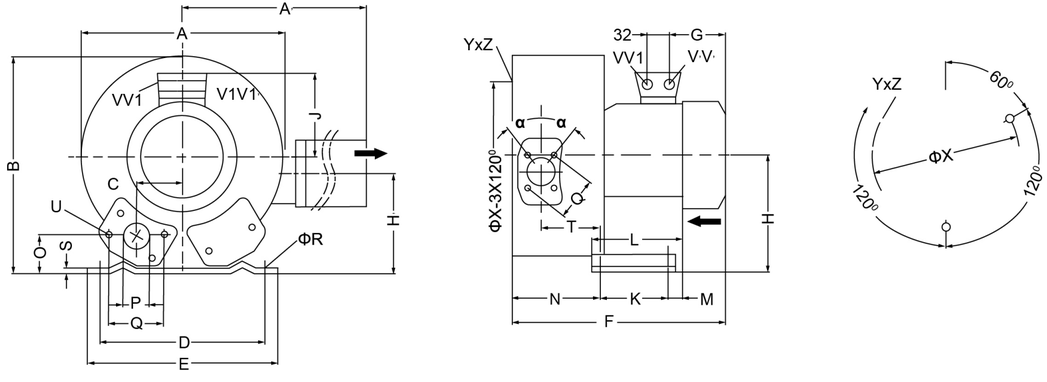
210/230



型號 Type	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	YXZ	X–HOLES	ϕX
2HB 010–H06	3~	190	204	75	156	174	220	165	102	70	81	101	90	45	27	G1	46	8	2	M6X15			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	125
2HB 110–H06	3~	215	225	75	156	174	248	92	116	101	81	101	72	50	32	G1	46	9	2	M6X15			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	125
2HB 210–H06	3~	246	247	90	205	230	252	92	128	101	83	108	75	71	39	$G_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	140
2HB 210–H16	3~	246	247	90	205	230	256	135	128	111	83	108	75	71	39	$G_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	140
2HB 230–H06	3~	246	247	90	205	230	265	102	128	101	83	108	75	82	39	$G_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	140
2HB 230–H16	3~	246	247	90	205	230	267	135	128	111	83	108	75	82	39	$G_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	140
2HB 230–H26	3~	246	247	90	205	230	267	135	128	111	83	108	75	82	39	$G_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	140
2HB 210–A11	1~	246	247	90	205	230	256	135	128	101	83	108	75	71	39	$G_{1/4}$	64	10	3	M6X20	M16X1.5	M25X1.5			M6X15	$0^0/120^0/240^0$	140
2HB 230–A11	1~	246	247	90	205	230	267	135	128	111	83	108	75	82	39	$G_{1/4}$	64	10	3	M6X25	M16X1.5	M25X1.5			M6X15	$0^0/120^0/240^0$	140

2HB2 TWO STAGE MOUNTING DIMENSIONS
2HB2 雙級安裝尺寸

220



型號 Type	相位	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ϕR	S	T	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	a	ϕX	YXZ	X–Holes
2HB 220–H26	3~	284	316	270	45	205	230	316	135	128	106	111	83	108	75	130	39	$G_{1/4}$	64	10	3	88	M6X17			M25X1.5	M16X1.5	27^0	140	M6X15	$51^0/171^0/291^0$

2HB3/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

(單、雙級) 氣環真空泵型號及性能參數表 (IP55 50/60HZ)



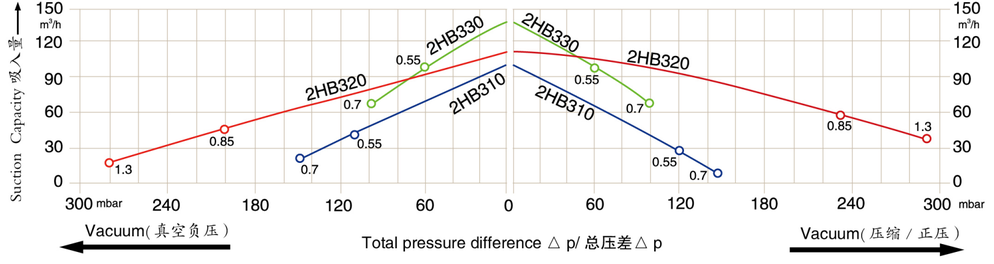


型 號 (2HB 3AC) Model	單級 雙級 single double	頻率 frequency HZ	馬達參數 功率 power KW	額定電壓 voltage V		額定電流 current A	最大 排吸流量 Max airflow m3/h	額定 真空壓力 rated Vacuum mbar	額定 壓縮壓力 rated compress mbar	噪音 noises dB(A)	重量 Weight Kg
2HB 310 H06	單	50	0.55	200–240Δ	345–415Y	2.8Δ/1.6Y	100	–110	120	55	11
		60	0.63	220–275Δ	380–480Y	3.0Δ/1.7Y	120	–110	120	57	
2HB 310 H16	單	50	0.7	200–240Δ	345–415Y	3.8Δ/2.2Y	100	–150	150	55	12
		60	0.83	220–275Δ	380–480Y	3.8Δ/2.2Y	120	–150	140	57	
2HB 330 H06	單	50	0.55	200–240Δ	345–415Y	2.8Δ/1.6Y	140	–80	90	56	12
		60	0.63	220–275Δ	380–480Y	3.0Δ/1.7Y	165	–100	100	58	
2HB 330 H16	單	50	0.75	200–240Δ	345–415Y	3.8Δ/2.2Y	140	–100	100	56	13
		60	0.83	220–275Δ	380–480Y	3.8Δ/2.2Y	165	–115	100	58	
2HB 320 H26	雙	50	0.85	200–240Δ	345–415Y	4.2Δ/2.4Y	110	–200	230	58	17
		60	0.95	220–275Δ	380–480Y	4.0Δ/2.3Y	130	–240	240	60	
2HB 320 H36	雙	50	1.3	200–240Δ	345–415Y	5.7Δ/3.3Y	110	–230	230	58	18
		60	1.5	220–275Δ	380–480Y	6.0Δ/3.5Y	130	–260	260	60	

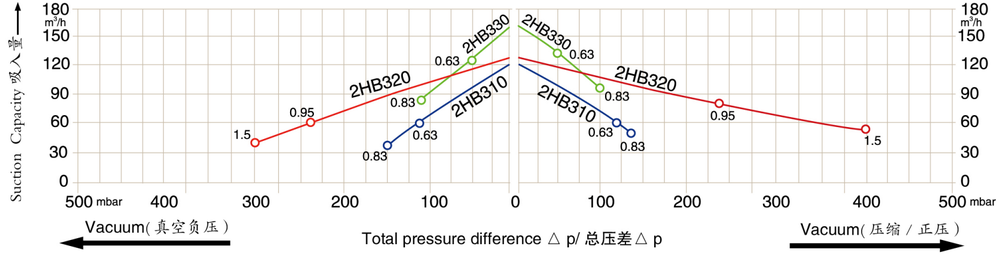
2HB3/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz **Compressor Selection Diagram 50 Hz-- 壓縮選**

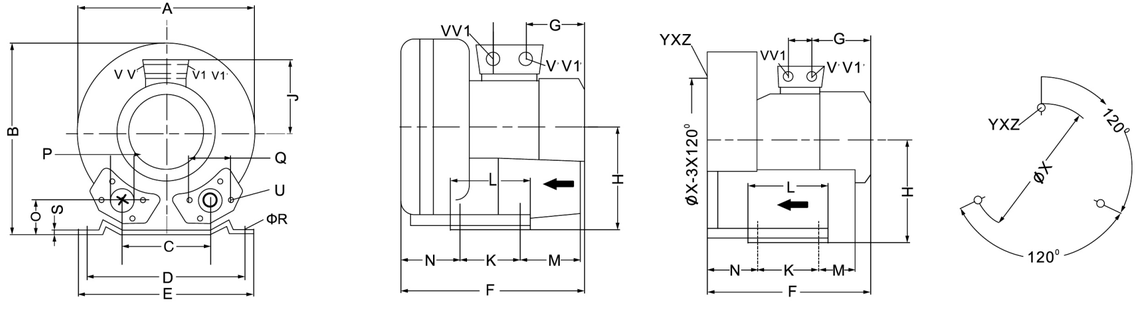


Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz **Compressor Celetion Diagram 60 Hz-- 壓縮選型圖表 60 Hz**



2HB3 Single stage mounting dimensions
2HB3 單級安裝尺寸

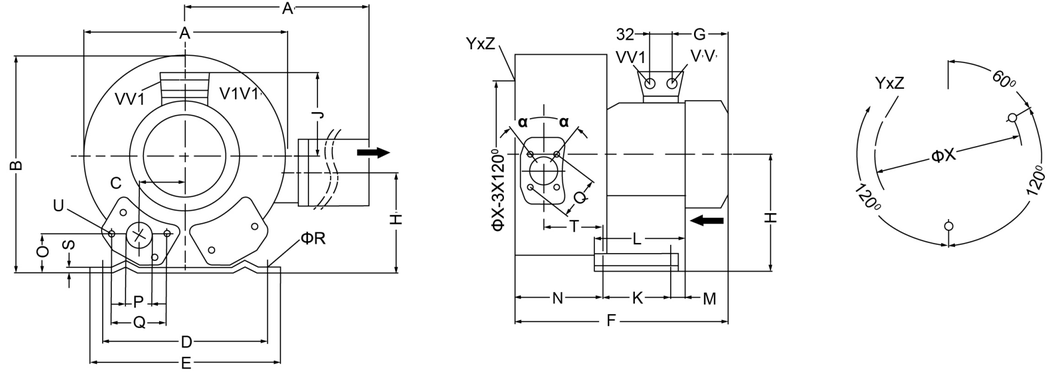
310/330



型號 Type	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	YXZ	X-HOLES	ϕX
2HB 310-H06	3~	268	272	93	205	230	260	135	141	111	83	108	82	69	41	$G1_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	160
2HB 310-H16	3~	268	272	93	205	230	260	135	141	111	83	108	82	69	41	$G1_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	160
2HB 330-H06	3~	268	272	93	205	230	276	135	141	111	83	108	82	85	41	$G1_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	160
2HB 330-H16	3~	268	272	93	205	230	276	135	141	111	83	108	82	85	41	$G1_{1/4}$	64	10	2.5	M6X17			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	160
2HB 310-A01	1~	268	272	93	205	230	260	92	141	101	83	108	82	69	41	$G1_{1/4}$	64	10	3	M6X17	M25X1.5	M16X1.5			M6X15	$0^0/120^0/240^0$	160
2HB 310-A11	1~	268	272	93	205	230	260	92	141	101	83	108	82	69	41	$G1_{1/4}$	64	10	3	M6X17	M25X1.5	M16X1.5			M6X15	$0^0/120^0/240^0$	160
2HB 330-A11	1~	268	272	93	205	230	276	135	141	111	83	108	82	85	41	$G1_{1/4}$	64	10	2.5	M6X17	M25X1.5	M16X1.5			M6X15	$0^0/120^0/240^0$	160

2HB3 TWO STAGE MOUNTING DIMENSIONS
2HB3 雙級安裝尺寸

320



型號 Type	相位	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ϕR	S	T	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	a	ϕX	YXZ	X-Holes
2HB 320-H36	3~	293	324	286	47	205	230	354	160	141	114	120	83	108	82	138	41	$G_{1/4}$	64	10	3	92	M6X17			M25X1.5	M16X1.5	27^0	160	M6X15	$51^0/171^0/291^0$
2HB 320-A31	1~	293	324	286	47	205	230	354	160	141	114	120	83	108	82	138	41	$G_{1/4}$	64	10	3	92	M6X17	M25X1.5	M16X1.5			27^0	160	M6X15	$51^0/171^0/291^0$

2HB4/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

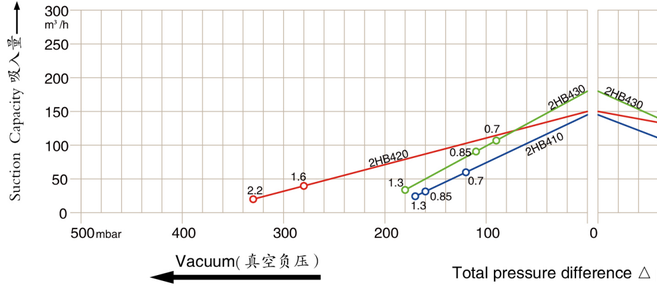
（單、雙級）氣環真空泵型號及性能參數表（IP55 50/60HZ）

型 號 (2HB 3AC) Model	單級		馬達參數				最大	額定	額定	噪音	重量
	雙級	頻率	功率	額定電壓		額定電流	排吸流量	真空壓力	壓縮壓力		
	single	frequency	power	voltage		current	Max airflow	rated Vacuum	rated compress	noises	Weight
	double	HZ	KW	V		A	m3/h	mbar	mbar	dB(A)	Kg
2HB 410 H06	單	50	0.7	200–240Δ	345–415Y	3.8Δ/2.2Y	145	–120	120	63	13
		60	0.83	220–275Δ	380–480Y	3.75Δ/2.15Y	175	–140	140	64	
2HB 410 H16	單	50	0.85	200–240Δ	345–415Y	4.0Δ/2.3Y	145	–160	160	63	16
		60	0.95	220–275Δ	380–480Y	3.85Δ/2.25Y	175	–160	160	64	
2HB 410 H26	單	50	1.3	200–240Δ	345–415Y	5.7Δ/3.3Y	145	–170	200	63	17
		60	1.5	220–275Δ	380–480Y	6.0Δ/3.5Y	175	–210	220	64	
2HB 430 H06	單	50	0.7	200–240Δ	345–415Y	3.8Δ/2.2Y	180	–90	90	64	14
		60	0.83	220–275Δ	380–480Y	3.8Δ/2.2Y	210	–100	110	65	
2HB 430 H16	單	50	0.85	200–240Δ	345–415Y	4.2Δ/2.4Y	180	–110	100	64	17
		60	0.95	220–275Δ	380–480Y	4.0Δ/2.3Y	210	–120	120	65	
2HB 430 H26	單	50	1.3	200–240Δ	345–415Y	6.6Δ/3.8Y	180	–180	180	64	18
		60	1.5	220–275Δ	380–480Y	6.9Δ/4.0Y	210	–180	170	65	
2HB 490 H16	單	50	0.7	200–240Δ	345–415Y	2.8Δ/1.6Y	140	–120	120	63	14
		60	0.85	220–275Δ	380–480Y	3.6Δ/2.1Y	175	–140	140	64	
2HB 420 H36	雙	50	1.6	200–240Δ	345–415Y	7.5Δ/4.3Y	150	–280	280	66	25
		60	2.05	220–275Δ	380–480Y	7.6Δ/4.4Y	180	–320	310	69	
2HB 420 H46	雙	50	2.2	200–240Δ	345–415Y	9.7Δ/5.6Y	150	–330	420	66	27
		60	2.55	220–275Δ	380–480Y	10Δ/5.8Y	180	–350	440	69	

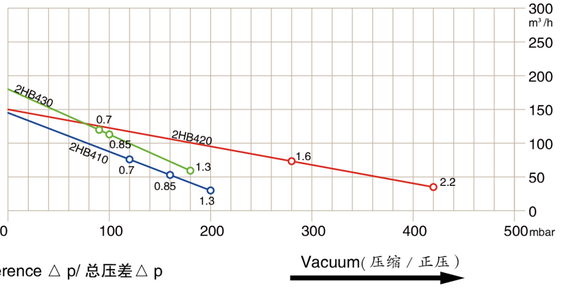
2HB4/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

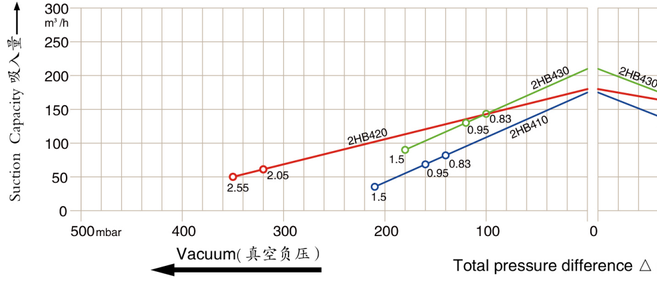
Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz



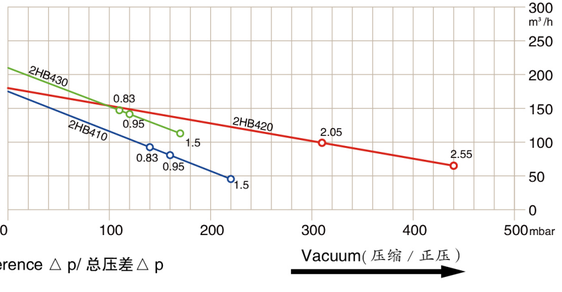
Compressor Selection Diagram 50 Hz-- 壓縮選



Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz

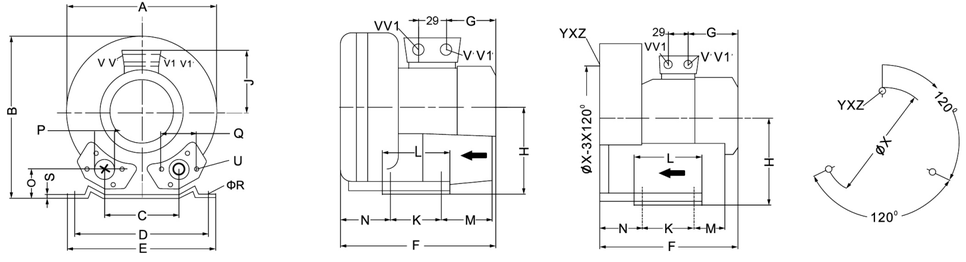


Compressor Celetion Diagram 60 Hz-- 壓縮選型



2HB4 SINGLE STAGE MOUNTING DIMENSIONS
2HB4 單級安裝尺寸

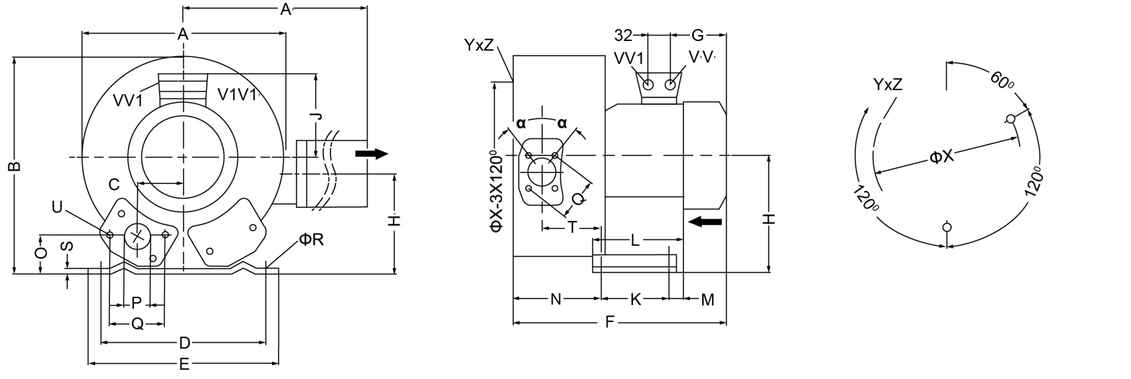
410/430/490



型號 Type	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	YXZ	X-HOLES	ϕX
2HB 410-H06	3~	286	302	115	225	255	269	135	154	111	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 410-H16	3~	286	302	115	225	255	292	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 410-H26	3~	286	302	115	225	255	292	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 430-H06	3~	286	302	115	225	255	288	135	154	111	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 430-H16	3~	286	302	115	225	255	311	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 430-H26	3~	286	302	115	225	255	311	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 490-H16	3~	286	302	115	225	255	311	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19			M25X1.5	M16X1.5	M6X15	$0^0/120^0/240^0$	174
2HB 410-A11	1~	286	302	115	225	255	294	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19	M16X1.5	M25X1.5			M6X15	$0^0/120^0/240^0$	174
2HB 410-A21	1~	286	302	115	225	255	294	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19	M16X1.5	M25X1.5			M6X15	$0^0/120^0/240^0$	174
2HB 430-A11	1~	286	302	115	225	255	311	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19	M16X1.5	M25X1.5			M6X15	$0^0/120^0/240^0$	174
2HB 430-A21	1~	286	302	115	225	255	311	160	154	120	95	130	70	75	46	$G1_{1/2}$	72	12	3	M6X19	M16X1.5	M25X1.5			M6X15	$0^0/120^0/240^0$	174

2HB4 TWO STAGE MOUNTING DIMENSIONS
2HB4 雙級安裝尺寸

420



型號 Type	相位	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ϕR	S	T	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	a	ϕX	YXZ	X-Holes
2HB 420-H36	3~	322	324	315	58	225	255	401	191	154	153	128	95	130	73	151	45	$G1_{1/2}$	72	12	3	104	M6X19			M25X1.5	M16X1.5	28^0	174	M6X15	$51^0/171^0/291^0$
2HB 420-H46	3~	322	324	315	58	225	255	401	191	154	153	128	95	130	73	151	45	$G1_{1/2}$	72	12	3	104	M6X19			M25X1.5	M16X1.5	28^0	174	M6X15	$51^0/171^0/291^0$
2HB 420-A31	1~	322	324	315	58	225	255	401	191	154	153	128	95	130	73	151	45	$G1_{1/2}$	72	12	3	104	M6X19	M16X1.5	M25X1.5			28^0	174	M6X15	$51^0/171^0/291^0$

2HB5/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

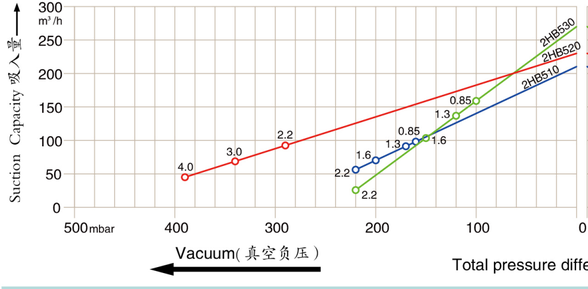
(單、雙級) 氣環真空泵型號及性能參數表 (IP55 50/60HZ)

型 號 (2HB 3AC) Model	單級 / 雙級 / single / double	頻率 / frequency / HZ	馬達參數 功率 / power / KW	額定電壓 / voltage / V		額定電流 / current / A	最大 排吸流量 / Max airflow / m3/h	額定 真空壓力 / rated Vacuum / mbar	額定 壓縮壓力 / rated compress / mbar	噪音 / noises / dB(A)	重量 / Weight / Kg
2HB 510 H06	單	50	0.85	200–240Δ	345–415Y	4.0Δ/2.3Y	210	–160	170	64	20
		60	0.95	220–275Δ	380–480Y	4.2Δ/2.4Y	255	–150	160	70	
2HB 510 H16	單	50	1.3	200–240Δ	345–415Y	6.6Δ/3.8Y	210	–170	170	64	22
		60	1.5	220–275Δ	380–480Y	6.9Δ/4.0Y	255	–180	190	70	
2HB 510 H26	單	50	1.6	200–240Δ	345–415Y	7.5Δ/4.3Y	210	–200	190	64	23
		60	2.05	220–275Δ	380–480Y	7.6Δ/4.4Y	255	–220	210	70	
2HB 510 H36	單	50	2.2	200–240Δ	345–415Y	9.7Δ/5.6Y	210	–220	270	64	25
		60	2.55	220–275Δ	380–480Y	10.3Δ/6.0Y	255	–260	290	70	
2HB 530 H06	單	50	0.85	200–240Δ	345–415Y	4.0Δ2.3Y	270	–100	100	65	21
		60	0.95	220–275Δ	380–480Y	4.2Δ/2.4Y	330	–110	110	71	
2HB 530 H16	單	50	1.3	200–240Δ	345–415Y	6.6Δ/3.8Y	270	–120	110	65	23
		60	1.5	220–275Δ	380–480Y	6.9Δ/4.0Y	330	–130	130	71	
2HB 530 H26	單	50	1.6	200–240Δ	345–415Y	7.5Δ/4.3Y	270	–150	150	65	24
		60	2.05	220–275Δ	380–480Y	7.6Δ/4.4Y	330	–150	150	71	
2HB 530 H36	單	50	2.2	200–240Δ	345–415Y	9.7Δ/5.6Y	270	–220	230	65	26
		60	2.55	220–275Δ	380–480Y	10.3Δ/6Y	330	–260	250	71	
2HB 590 H26	單	50	1.1	200–240Δ	345–415Y	5.7Δ3.3Y	210	–130	150	64	23
		60	1.3	220–275Δ	380–480Y	6.0Δ/3.5Y	255	–180	210	70	
2HB 520 H36	雙	50	2.2	200–240Δ	345–415Y	9.7Δ/5.6Y	230	–290	360	72	25
		60	2.55	220–275Δ	380–480Y	10.3Δ/6.0Y	275	–350	330	74	
2HB 520 H46	雙	50	3	200–240Δ	345–415Y	12.5Δ/7.2Y	230	–340	410	72	40
		60	3.45	220–275Δ	380–480Y	12.6Δ/7.3Y	275	–380	360	74	
2HB 520 H57	雙	50	4	345–415Δ	600–720Y	10Δ/5.8Y	230	–390	490	72	44
		60	4.6	380–480Δ	660–720Y	9.9Δ/5.71Y	275	–410	480	74	

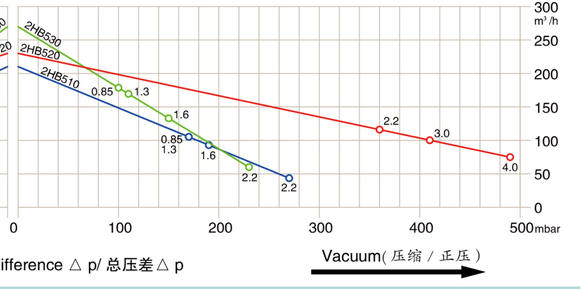
2HB5/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz

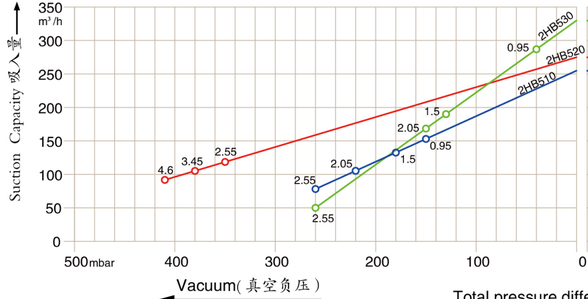


Compressor Celetion Diagram 50 Hz-- 壓縮選型

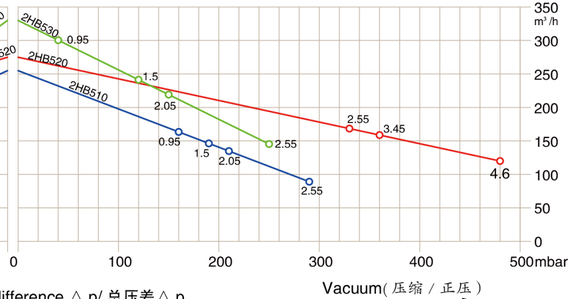


Total pressure difference △ p/ 总压差△ p

Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz



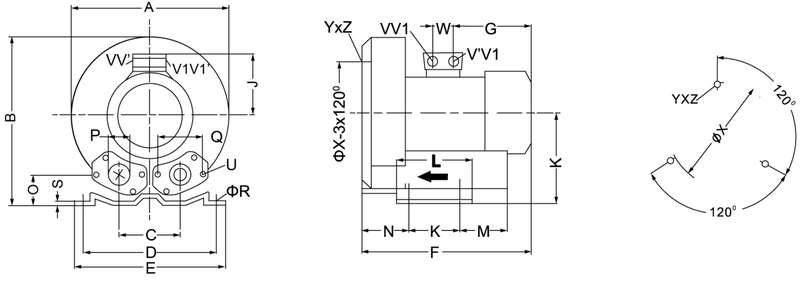
Compressor Selection Diagram 60 Hz-- 壓縮選



Total pressure difference △ p/ 总压差△ p

2HB5 SINGLE STAGE MOUNTING DIMENSIONS
2HB5 單級安裝尺寸

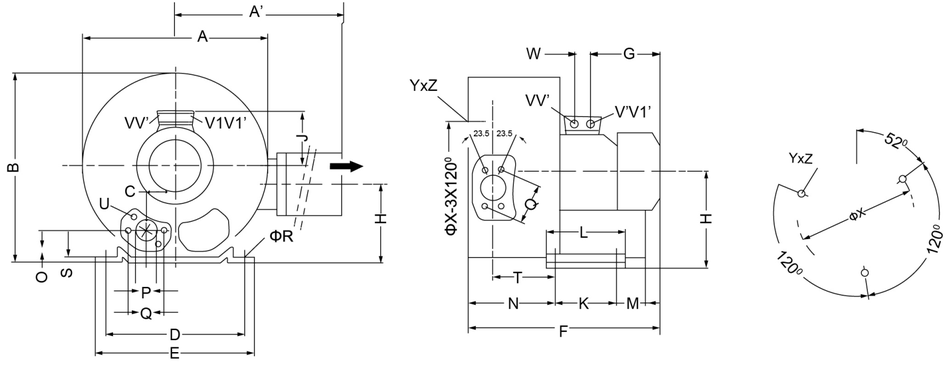
510/530/590



型號 Type	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	YXZ	X–HOLES	ϕX	W
2HB 510–H06	3~	334	337	120	260	295	314	160	175	120	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 510–H16	3~	334	337	120	260	295	314	160	175	120	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 510–H26	3~	334	337	120	260	295	346	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 510–H36	3~	334	337	120	260	295	346	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 530–H06	3~	334	337	120	260	295	334	160	175	120	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 530–H16	3~	334	337	120	260	295	334	160	175	120	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 530–H26	3~	334	337	120	260	295	365	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 530–H36	3~	334	337	120	260	295	365	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 590–H26	3~	334	337	120	260	295	365	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	200	29
2HB 510–A11	1~	334	337	120	260	295	314	160	175	120	115	155	96	87	48	G2	83	14	4	M8X17	M25X1.5	M16X1.5			M8X20	$0^0/120^0/240^0$	200	29
2HB 510–A21	1~	334	337	120	260	295	345	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17	M25X1.5	M16X1.5			M8X20	$0^0/120^0/240^0$	200	29
2HB 530–A11	1~	334	337	120	260	295	334	160	175	120	115	155	96	87	48	G2	83	14	4	M8X17	M25X1.5	M16X1.5			M8X20	$0^0/120^0/240^0$	200	29
2HB 530–A21	1~	334	337	120	260	295	365	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17	M25X1.5	M16X1.5			M8X20	$0^0/120^0/240^0$	200	29
2HB 590–A21	1~	334	337	120	260	295	365	191	175	128	115	155	96	87	48	G2	83	14	4	M8X17	M25X1.5	M16X1.5			M8X20	$0^0/120^0/240^0$	200	29

2HB5 TWO STAGE MOUNTING DIMENSIONS
2HB5 雙級安裝尺寸

520



型號 Type	相位	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ϕR	S	T	U	V	V'	V1	V1'	ϕX	YXZ	X–Holes	W
2HB 520–H46	3~	372	411	371	60	260	295	465	190	175	144	135	115	155	98	171	48	G2	83	14	4	116	M8X17	M25X1.5	M25X1.5			200	M8X20	$51.5^0/171.5^0/291.5^0$	42
2HB 520–H57	3~	372	411	371	60	260	295	499	224	175	144	135	115	155	98	171	48	G2	83	14	4	116	M8X17	M25X1.5	M25X1.5			200	M8X20	$51.5^0/171.5^0/291.5^0$	42

2HB6/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

(單、雙級) 氣環真空泵型號及性能參數表 (IP55 50/60HZ)



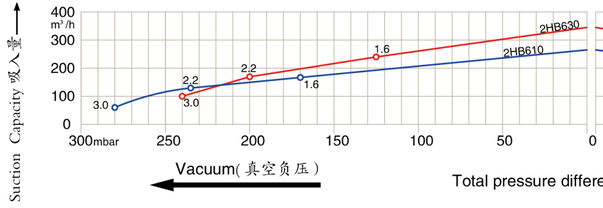


型號 (2HB 3AC) Model	單		馬達參數				最大額定	額定	額定	噪音	重量
	雙	頻率	功率	額定電壓		額定電流	排吸流量	真空壓力	壓縮壓力		
	single	frequency	power	voltage		current	Max airflow	rated Vacuum	rated compress	noise	Weight
	double	HZ	KW	V		A	m3/h	mbar	mbar	dB(A)	Kg
2HB 610 H06	單	50	1.6	200–240Δ	345–415Y	8.5Δ/4.9Y	265	–170	180	68	25
		60	2.05	220–275Δ	380–480Y	8.8Δ/5.1Y	315	–180	190	70	
2HB 610 H16	單	50	2.2	200–240Δ	345–415Y	9.7Δ/5.6Y	265	–235	220	69	28
		60	2.55	220–275Δ	380–480Y	10.3Δ/6.0Y	315	–245	230	72	
2HB 610 H26	單	50	3	200–240Δ	345–415Y	12.5Δ/7.2Y	265	–280	280	69	32
		60	3.45	220–275Δ	380–480Y	12.6Δ/7.3Y	315	–260	270	72	
2HB 630 H06	單	50	1.6	200–240Δ	345–415Y	8.5Δ/4.9Y	345	–125	125	70	26
		60	2.05	220–275Δ	380–480Y	8.8Δ/5.1Y	415	–105	130	73	
2HB 630 H16	單	50	2.2	200–240Δ	345–415Y	9.7Δ/5.6Y	345	–200	195	70	29
		60	2.55	220–275Δ	380–480Y	10.3Δ/6.0Y	415	–170	195	73	
2HB 630 H26	單	50	3	200–240Δ	345–415Y	12.5Δ/7.2Y	345	–240	220	70	35
		60	3.45	220–275Δ	380–480Y	12.6Δ/7.3Y	415	–210	220	73	

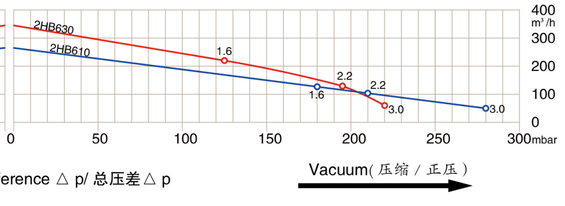
2HB6/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz

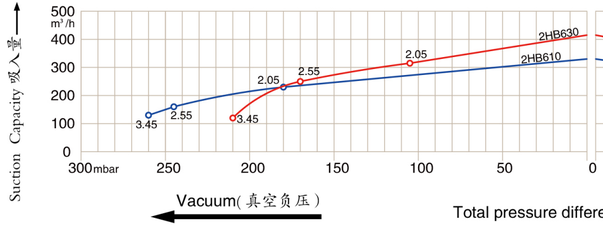


Compressor Selection Diagram 50 Hz-- 壓縮選

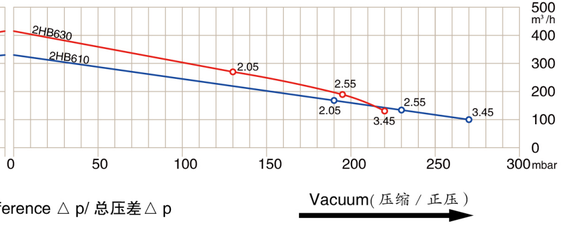


Total pressure difference △ p/ 总压差△ p

Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz



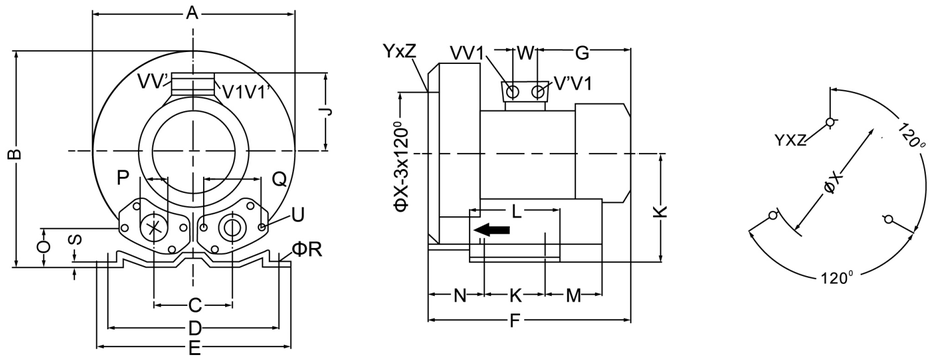
Compressor Celetion Diagram 60 Hz-- 壓縮選型



Total pressure difference △ p/ 总压差△ p

2HB6 SINGLE STAGE MOUNTING DIMENSIONS
2HB6 單級安裝尺寸

610/630



型號 Type	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	YXZ	X-HOLES	ϕX	W
2HB 610-H06	3~	360	366	122	290	325	354	191	192	128	140	180	64	74	56	G2	83	13	4.5	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	226	29
2HB 610-H16	3~	360	366	122	290	325	354	191	192	128	140	180	64	74	56	G2	83	13	4.5	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	226	29
2HB610-H26	3~	360	366	122	290	325	385	188	192	135	140	180	64	74	56	G2	83	13	4.5	M8X17			M25X1.5	M25X1.5	M8X20	$0^0/120^0/240^0$	226	42
2HB 630-H06	3~	360	366	122	290	325	372	191	192	128	140	180	64	74	56	G2	83	13	4.5	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	226	29
2HB630-H16	3~	360	366	122	290	325	372	191	192	128	140	180	64	74	56	G2	83	13	4.5	M8X17			M25X1.5	M16X1.5	M8X20	$0^0/120^0/240^0$	226	29
2HB 630-H26	3~	360	366	122	290	325	403	188	192	135	140	180	64	74	56	G2	83	13	4.5	M8X17			M25X1.5	M25X1.5	M8X20	$0^0/120^0/240^0$	226	42



2HB7/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

(單、雙級) 氣環真空泵型號及性能參數表 (IP55 50/60HZ)

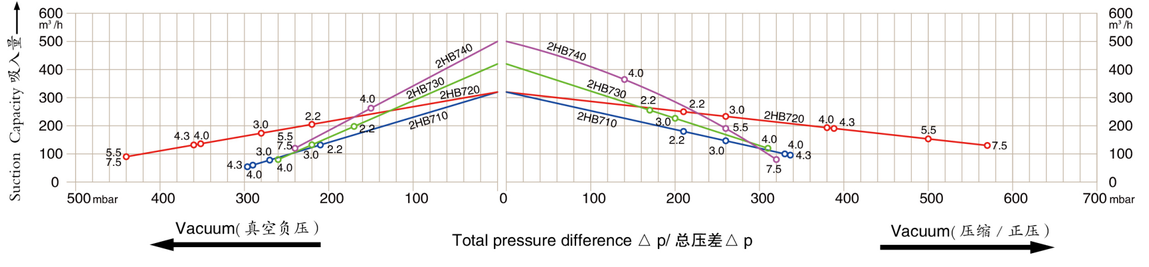
型 號 (2HB 3AC) Model	單級 / 雙級 / single / double	頻率 frequency HZ	馬達參數 功率 power KW	額定電壓 voltage V		額定電流 current A	最大 排吸流量 Max airflow m3/h	額定 真空壓力 rated Vacuum mbar	額定 壓縮壓力 rated compress mbar	噪音 noises dB(A)	重量 Weight Kg
2HB 710 H16	單	50	2.2	200–240△	345–415Y	9.7△/5.6Y	318	–210	200	69	30
		60	2.55	220–275△	380–480Y	10.3△/6.0Y	376	–210	200	72	
2HB 710 H26	單	50	3	200–240△	345–415Y	12.5△/7.2Y	318	–270	290	69	36
		60	3.45	220–275△	380–480Y	12.6△/7.3Y	376	–250	230	72	
2HB 710 H37	單	50	4	345–415△	600–720Y	9.0△/5.2Y	318	–290	330	69	40
		60	4.6	380–480△	660–720Y	9.0△/5.2Y	376	–330	330	72	
2HB 710 H47	單	50	4.3	345–415△	600–720Y	9.5△/5.5Y	318	–295	335	69	43
		60	4.8	380–480△	660–720Y	9.5△/5.5Y	376	–335	335	72	
2HB 720 H16	雙	50	2.2	200–240△	345–415Y	9.7△/5.6Y	320	–220	210	73	43
		60	2.55	220–275△	380–480Y	10.3△/6.0Y	380	–170	150	76	
2HB 720 H26	雙	50	3	200–240△	345–415Y	12.5△/7.2Y	320	–280	260	73	48
		60	3.45	220–275△	380–480Y	12.6△/7.3Y	380	–230	200	76	
2HB 720 H27	雙	50	4	345–415△	600–720Y	9.0△/5.2Y	320	–355	375	73	53
		60	4.6	380–480△	660–720Y	9.4△/5.2Y	385	–345	315	76	
2HB 720 H37	雙	50	4.3	345–415△	600–720Y	10△/5.2Y	320	–360	380	73	54
		60	4.8	380–480△	660–720Y	10.4△/6.0Y	380	–350	320	76	
2HB 720 H47	雙	50	5.5	345–415△	600–720Y	13.3△/7.7Y	320	–440	500	73	66
		60	6.3	380–480△	660–720Y	13.3△/7.7Y	380	–440	500	76	
2HB 720 H57	雙	50	7.5	345–415△	600–720Y	16.7△/9.6Y	320	–440	570	73	73
		60	8.6	380–480△	660–720Y	17.3△/10.0Y	380	–460	660	76	
2HB 730 H16	單	50	2.2	200–240△	345–415Y	9.7△/5.6Y	420	–170	170	70	32
		60	2.55	220–275△	380–480Y	10.3△6.0Y	500	–160	150	73	
2HB 730 H26	單	50	3	200–240△	345–415Y	12.5△/7.2Y	420	–220	200	70	37
		60	3.45	220–275△	380–480Y	12.6△/7.3Y	500	–200	190	73	
2HB 730 H37	單	50	4	345–415△	600–720Y	9.0△/5.2Y	420	–260	310	70	43
		60	4.6	380–480△	660–720Y	9.0△/5.2Y	500	–260	280	73	
2HB 740 H37	雙	50	4	345–415△	600–720Y	9.0△/5.2Y	500	–150	140	74	54
		60	4.6	380–480△	660–720Y	9.0△/5.2Y	600	–100	90	78	
2HB 740 H47	雙	50	5.5	345–415△	600–720Y	13.3△/7.7Y	500	–240	260	74	69
		60	6.3	380–480△	660–720Y	13.3△/7.7Y	600	–210	200	78	
2HB 740 H57	雙	50	7.5	345–415△	600–720Y	16.7△/9.6Y	500	–240	320	74	75
		60	8.6	380–480△	660–720Y	17.3△/10.0Y	600	–270	300	78	
2HB 790 H26	單	50	2.2	200–240△	345–415Y	12.5△/7.2Y	320	–160	200	69	36
		60	2.55	220–275△	380–480Y	12.6△/7.3Y	370	–240	250	72	

2HB7/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

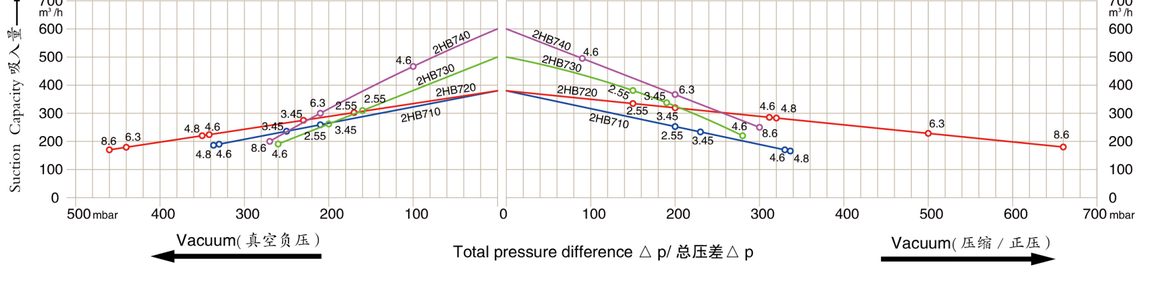
Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz

Compressor Selection Diagram 50 Hz-- 壓縮選



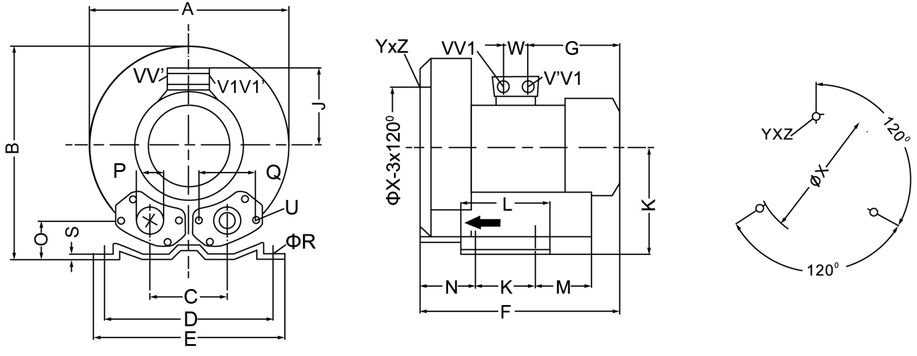
Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz

Compressor Selection Diagram 60 Hz-- 壓縮選



2HB7 SINGLE STAGE MOUNTING DIMENSIONS
2HB7 單級安裝尺寸

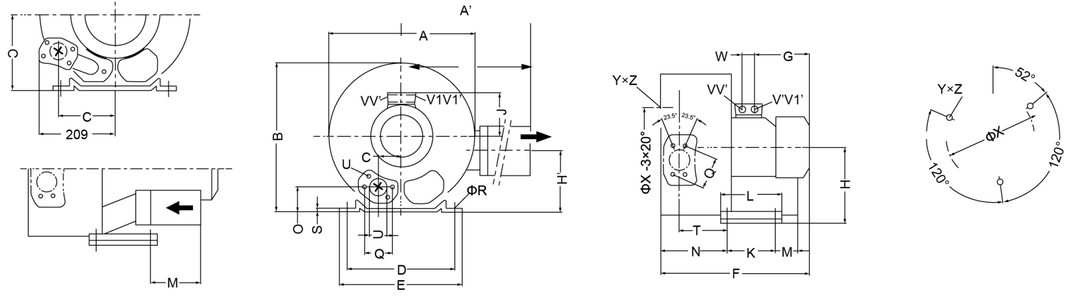
710/730/790



型號 Type	相位	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V(1~)	V'(1~)	V1(3~)	V1'(3~)	YXZ	X-HOLES	ϕX	W
2HB 710-H06	3~	382	384	125	290	325	377	191	197	128	140	180	84	109	54	G2	83	15	4.5	M8X17			M25X1.5	M16X1.5	M10X20	$0^0/120^0/240^0$	240	29
2HB 710-H16	3~	382	384	125	290	325	377	191	197	128	140	180	84	109	54	G2	83	15	4.5	M8X17					M10X20	$0^0/120^0/240^0$	240	29
2HB 710-H26	3~	382	384	125	290	325	409	188	197	135	140	180	84	109	54	G2	83	15	4.5	M8X17			M25X1.5	M25X1.5	M10X20	$0^0/120^0/240^0$	240	42
2HB 710-H37	3~	382	384	125	290	325	432	209	197	148	140	180	84	109	54	G2	83	15	4.5	M8X17					M10X20	$0^0/120^0/240^0$	240	42
2HB 730-H06	3~	382	384	125	290	325	387	191	197	128	140	180	84	109	54	G2	83	15	4.5	M8X17	M25X1.5	M16X1.5			M10X20	$0^0/120^0/240^0$	240	29
2HB 730-H16	3~	382	384	125	290	325	387	191	197	128	140	180	84	109	54	G2	83	15	4.5	M8X17	M25X1.5	M16X1.5			M10X20	$0^0/120^0/240^0$	240	29
2HB 730-H26	3~	382	384	125	290	325	419	189	197	135	140	180	84	109	54	G2	83	15	4.5	M8X17			M25X1.5	M25X1.5	M10X20	$0^0/120^0/240^0$	240	42
2HB 730-H37	3~	382	384	125	290	325	432	209	197	148	140	180	84	109	54	G2	83	15	4.5	M8X17			M25X1.5	M25X1.5	M10X20	$0^0/120^0/240^0$	240	42
2HB 790-H26	3~	382	384	125	290	325	377	185	197	128	140	180	84	109	54	G2	83	15	4.5	M8X17			M25X1.5	M16X1.5	M10X20	$0^0/120^0/240^0$	240	29

2HB7 TWO STAGE MOUNTING DIMENSIONS
2HB7 雙級安裝尺寸

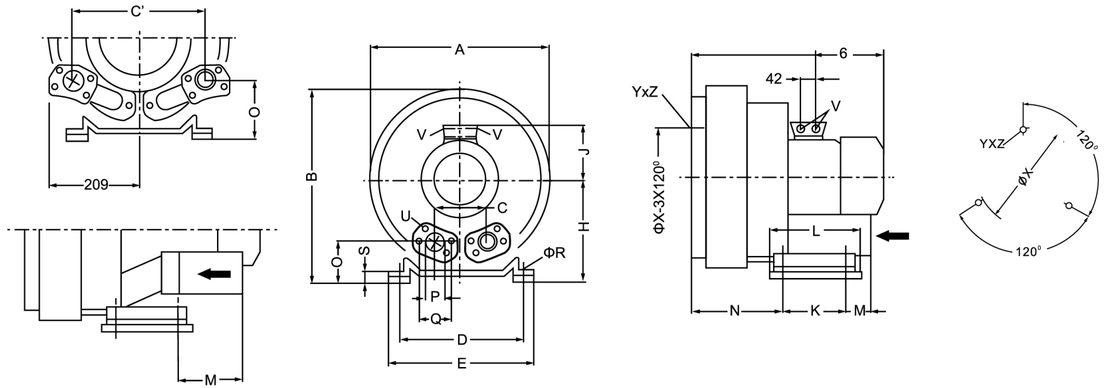
720



型號 Type	相位	A	A'	Bvv	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ϕR	S	T	U	V	V'	V1	V1'	ϕX	YXZ	X-Holes	W
2HB 720-H16	3~	426	426	410	63	290	325	473	191	197	162	128	140	180	84	205	53	G2	83	15	4.5	130	M8X17	M25X1.5	M16X1.5			240	M10X20	$51.5^0/171.5^0/291.5^0$	29
2HB 720-H26	3~	426	426	410	63	290	325	496	188	197	162	135	140	180	84	205	53	G2	83	15	4.5	130	M8X17			M25X1.5	M25X1.5	240	M10X20	$51.5^0/171.5^0/291.5^0$	42
2HB 720-H37	3~	426	426	410	63	290	325	526	209	197	162	148	140	180	84	205	53	G2	83	15	4.5	130	M8X17			M25X1.5	M25X1.5	240	M10X20	$51.5^0/171.5^0/291.5^0$	42
2HB 720-H47	3~	426	426	410	154	290	325	571	226	197	162	167	140	180	200	205	53	G2	83	15	4.5	130	M8X17			M25X1.5	M25X1.5	240	M10X20	$51.5^0/171.5^0/291.5^0$	42
2HB 720-H57	3~	426	426	410	154	290	325	571	226	197	162	167	140	180	200	205	53	G2	83	15	4.5	130	M8X17			M25X1.5	M25X1.5	240	M10X20	$51.5^0/171.5^0/291.5^0$	42

2HB7 TWO STAGE MOUNTING DIMENSIONS
2HB7 雙級安裝尺寸

740



型號 Type	相位	A	B	C	C'	D	E	F	G	H	J	K	L	M	N	O	P	Q	ϕR	S	U	V	ϕX	YXZ	X-HOLES
2HB 740-H37	3~	420	410	125		290	325	526	209	197	148	140	180	84	205	153	G2	83	15	64.5	M8x17	2XM25X1.5	240	M10X20	$0^0/120^0/240^0$
2HB 740-H47	3~	420	410		308	290	325	571	226	257	167	140	180	200	205	153	G2	83	15	64.5	M8x17	2XM25X1.5	240	M10X20	$0^0/120^0/240^0$
2HB 740-H57	3~	420	410		308	290	325	571	226	257	167	140	180	200	205	153	G2	83	15	64.5	M8x17	2XM25X1.5	240	M10X20	$0^0/120^0/240^0$



2HB8/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

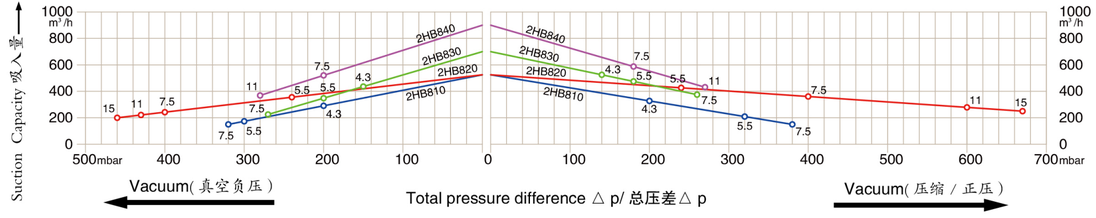
(單、雙級) 氣環真空泵型號及性能參數表 (IP55 50/60HZ)

型 號 (2HB 3AC) Model	單級 雙級 single double	頻率 frequency HZ	馬達參數 功率 power KW	額定電壓 voltage V		額定電流 current A	最大 排吸流量 Max airflow m3/h	額定 真空壓力 rated Vacuum mbar	額定 壓縮壓力 rated compress mbar	噪音 noises dB(A)	重量 Weight Kg
2HB 810 H07	單	50	4.3	345–415Δ	600–720Y	9.5Δ/5.5Y	530	–200	200	70	54
		60	4.6	380–480Δ	660–720Y	9.5Δ/5.5Y	620	–160	160	74	
2HB 810 H17	單	50	5.5	345–415Δ	600–720Y	12.9Δ/7.4Y	530	–300	320	70	63
		60	6.3	380–480Δ	660–720Y	12.9Δ/7.45Y	620	–320	340	74	
2HB 810 H27	單	50	7.5	345–415Δ	600–720Y	16.7Δ/9.6Y	530	–320	380	70	66
		60	8.6	380–480Δ	660–720Y	17.3Δ/10.0Y	620	–350	400	74	
2HB 820 H17	雙	50	5.5	345–415Δ	600–720Y	13.3Δ/7.7Y	520	–240	240	74	83
		60	6.3	380–480Δ	660–720Y	13.3Δ/7.7Y	620	–170	160	78	
2HB 820 H27	雙	50	7.5	345–415Δ	600–720Y	16.7Δ/9.6Y	520	–400	400	74	86
		60	8.6	380–480Δ	660–720Y	17.3Δ/10.0Y	620	–360	330	78	
2HB 820 H37	雙	50	11	345–415Δ	600–720Y	28.0Δ/16.2Y	520	–430	600	74	104
		60	12.6	380–480Δ	660–720Y	29.0Δ/16.7Y	620	–460	600	78	
2HB 820 H47	雙	50	15	345–415Δ	600–720Y	32.5Δ/18.8Y	520	–460	670	74	120
		60	17.3	380–480Δ	660–720Y	34.5Δ/19.9Y	620	–490	750	78	
2HB 830 H07	單	50	4.3	345–415Δ	600–720Y	9.5Δ/5.5Y	700	–150	140	70	57
		60	4.6	380–480Δ	660–720Y	9.5Δ/5.5Y	840	–90	90	74	
2HB 830 H17	單	50	5.5	345–415Δ	600–720Y	12.9Δ/7.4Y	700	–200	180	70	66
		60	6.3	380–480Δ	660–720Y	12.9Δ/7.45Y	840	–180	180	74	
2HB 830 H27	單	50	7.5	345–415Δ	600–720Y	16.7Δ/9.6Y	700	–270	260	70	69
		60	8.6	380–480Δ	660–720Y	17.3Δ/10.0Y	840	–270	260	74	
2HB 840 H27	雙	50	7.5	345–415Δ	600–720Y	16.7Δ/9.6Y	900	–200	180	74	91
		60	8.6	380–480Δ	660–720Y	17.3Δ/10.0Y	1050	–150	120	78	
2HB 840 H37	雙	50	11.0	345–415Δ	600–720Y	28.0Δ/16.2Y	900	–280	370	74	110
		60	12.6	380–480Δ	660–720Y	29.0Δ/16.7Y	1050	–310	350	78	

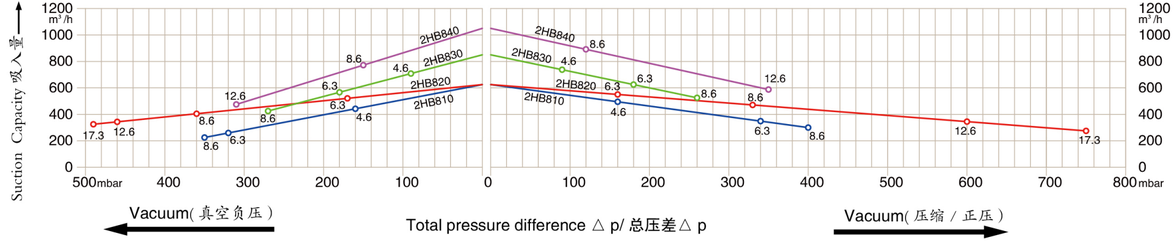
2HB8/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz **Compressor Celetion Diagram 50 Hz-- 壓縮選型**



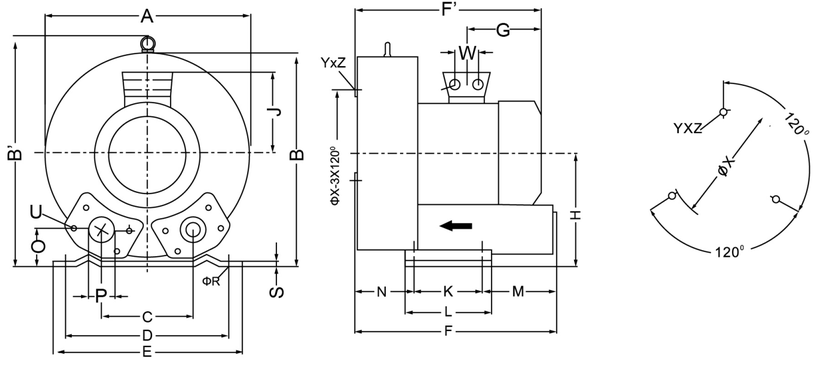
Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz **Compressor Celetion Diagram 60 Hz-- 壓縮選型**



2HB8 SINGLE STAGE MOUNTING DIMENSIONS

2HB8 單級安裝尺寸

810/830

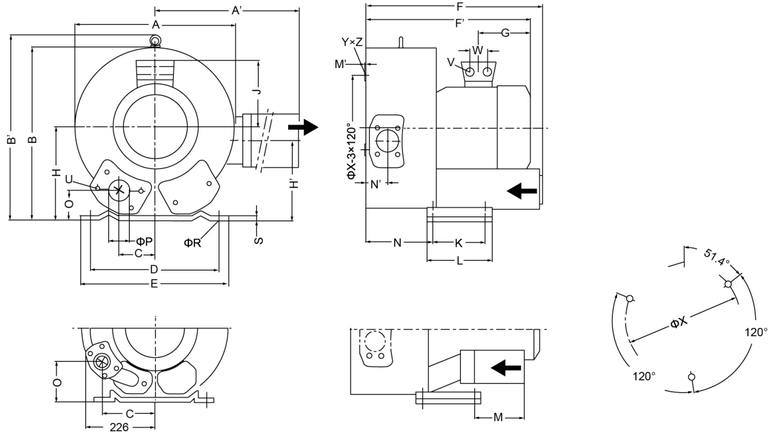


型號 Type	相位	A	A'	B	B'	C	D	E	F	F'	G	H	H'	J	K	L	M	N	N'	O	P	ϕR	S	V	W	ϕX	YXZ	X-HOLES
2HB 810-H07	3~	451		461	509	152	356	394	433	450	230	240		148	170	217	140	124		65	$G2_{1/2}$	15	6	2XM25X1.5	42	286	M12X20	$0^0/120^0/240^0$
2HB 810-H17	3~	451		461	509	152	356	394	433	477	226	240		167	170	217	140	124		65	$G2_{1/2}$	15	6	2XM25X1.5	42	286	M12X20	$0^0/120^0/240^0$
2HB 810-H27	3~	451		461	509	152	356	394	433	477	226	240		167	170	217	140	124		65	$G2_{1/2}$	15	6	2XM32X1.5	42	286	M12X20	$0^0/120^0/240^0$
2HB 830-H07	3~	451		461	509	152	356	394	449	466	230	240		148	170	217	139	164		65	$G2_{1/2}$	15	6	2XM32X1.5	42	286	M12X20	$0^0/120^0/240^0$
2HB 830-H17	3~	451		461	509	152	356	394	449	492	247	240		167	170	217	139	164		65	$G2_{1/2}$	15	6	2XM32X1.5	42	286	M12X20	$0^0/120^0/240^0$
2HB 830-H27	3~	451		461	509	152	356	394	449	492	247	240		167	170	217	139	164		65	$G2_{1/2}$	15	6	2XM32X1.5	42	286	M12X20	$0^0/120^0/240^0$

2HB8 TWO STAGE MOUNTING DIMENSIONS

2HB8 雙級安裝尺寸

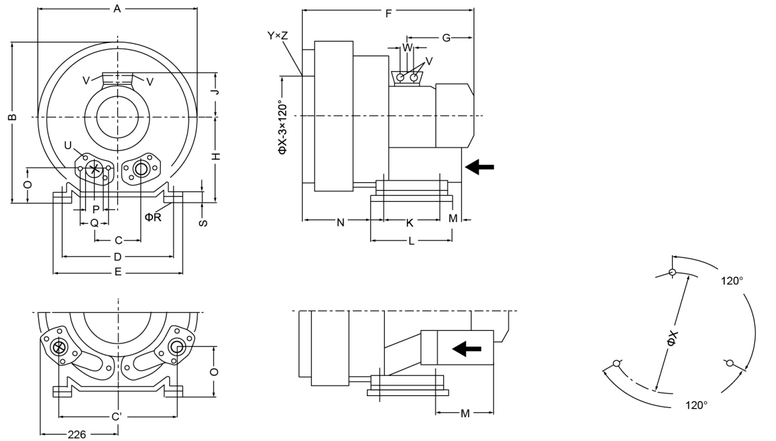
820



型號 Type	相位	A	A'	B	B'	C	D	E	F	F'	G	H	H'	J	K	L	M	N	N'	O	P	ϕR	S	V	W	ϕX	YXZ	X-HOLES
2HB 820-H17	3~	500	549	490	509	76	356	394	545	589	226	240	199	167	170	217		236	84	65	$G2_{1/2}$	15	6	2XM25X1.5	42	286	M12X20	$514^0/120^0/240^0$
2HB 820-H27	3~	500	549	490	509	76	356	394	545	589	226	240	199	167	170	217		236	84	65	$G2_{1/2}$	15	6	2XM25X1.5	42	286	M12X20	$514^0/120^0/240^0$
2HB 820-H37	3~	500	549	490	509	76	356	394	545	694	318	240	199	197	170	217		212	84	105	$G2_{1/2}$	15	6	2XM32X1.5	54	286	M12X20	$514^0/120^0/240^0$
2HB 820-H47	3~	500	549	490	509	76	356	394	545	694	318	240	199	197	170	217		212	84	105	$G2_{1/2}$	15	6	2XM32X1.5	54	286	M12X20	$514^0/120^0/240^0$

2HB8 TWO STAGE MOUNTING DIMENSIONS
2HB8 雙級安裝尺寸

840



型號 Type	相位	A	B	C	C'	D	E	F	G	H	J	K	L	M	N	O	P	ϕR	S	V	W	ϕX	YXZ	X-HOLES
2HB 840-H27	3~	500	550	152		356	394	589	247	300	167	170	217		236	125	$G2_{1/2}$	15	66	2XM32X1.5	42	286	M12X20	$0^0/120^0/240^0$
2HB 840-H37	3~	500	550		336	356	394	694	318	300	197	170	217	312	212	165	$G2_{1/2}$	15	66	2XM32X1.5	54	286	M12X20	$0^0/120^0/240^0$

DEDICATION
PROGRESRIGOROUS UNITY



2HB9/3AC (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

(單、雙級) 氣環真空泵型號及性能參數表（ IP55 50/60HZ ）

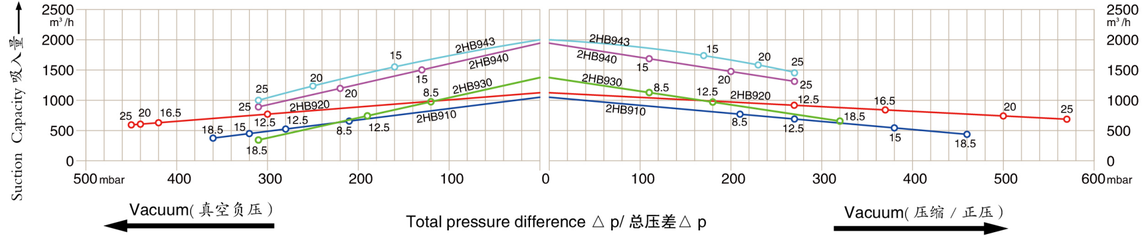
型 號 (2HB 3AC) Model	單		馬達參數			最大	額定	額定	噪音	重量
	雙	頻率	功率	額定電壓	額定電流	排吸流量	真空壓力	壓縮壓力		
	single	frequency	power	voltage	current	Max airflow	rated Vacuum	rated compress	noises	Weight
	double	HZ	KW	V	A	m3/h	mbar	mbar	dB(A)	Kg
2HB 910 H07	單	50	8.5	345–415Δ 600–720Y	18.2Δ/10.5Y	1050	–210	210	74	93
		60	9.8	380–480Δ 660–720Y	18.2Δ/10.5Y	1250	–180	180	79	
2HB 910 H17	單	50	12.5	345–415Δ 600–720Y	28.0Δ/16.2Y	1050	–280	270	74	116
		60	14.5	380–480Δ 660–720Y	29.0Δ/16.7Y	1250	–270	260	79	
2HB 910 H27	單	50	15	345–415Δ 600–720Y	35.0Δ/20.0Y	1050	–320	380	74	120
		60	17.5	380–480Δ 660–720Y	36.5Δ/21.0Y	1250	–340	360	79	
2HB 910 H37	單	50	18.5	345–415Δ 600–720Y	37.0Δ/21.0Y	1050	–360	460	74	126
		60	21.3	380–480Δ 660–720Y	39.0Δ/22.5Y	1250	–380	420	79	
2HB 920 H17	雙	50	12.5	345–415Δ 600–720Y	28.0Δ/16.2Y	1110	–300	270	74	187
		60	14.5	380–480Δ 660–720Y	29.0Δ/16.7Y	1310	–220	200	78	
2HB 920 H27	雙	50	16.5	345–415Δ 600–720Y	35.0Δ/20.0Y	1110	–420	370	74	197
		60	19	380–480Δ 660–720Y	36.5Δ/21.0Y	1310	–340	300	78	
2HB 920 H37	雙	50	20	345–415Δ 600–720Y	40.0Δ/23.0Y	1110	–440	500	74	204
		60	23	380–480Δ 660–720Y	42.0Δ/24.2Y	1310	–440	430	84	
2HB 920 H47	雙	50	25	345–415Δ 600–720Y	52.0Δ/30.0Y	1110	–450	590	74	211
		60	29	380–480Δ 660–720Y	52.0Δ/30.0Y	1310	–450	540	84	
2HB 930 H07	單	50	8.5	345–415Δ 600–720Y	18.2Δ/10.5Y	1370	–120	110	75	98
		60	9.8	380–480Δ 660–720Y	18.2Δ/10.5Y	1650	–140	140	80	
2HB 930 H17	單	50	12.5	345–415Δ 600–720Y	28.0Δ/16.2Y	1370	–190	180	75	121
		60	14.5	380–480Δ 660–720Y	29.0Δ/16.7Y	1650	–150	150	80	
2HB 930 H37	單	50	18.5	345–415Δ 600–720Y	37.0Δ/21.0Y	1370	–310	320	75	131
		60	21.3	380–480Δ 660–720Y	39.0Δ/22.5Y	1650	–300	280	80	
2HB 940 H27	雙	50	15	345–415Δ 600–720Y	35.0Δ/20.0Y	1940	–130	110	75	187
		60	17.5	380–480Δ 660–720Y	36.5Δ/21.0Y	2310	–150	130	84	
2HB 940 H37	雙	50	20	345–415Δ 600–720Y	40.0Δ/23.0Y	1940	–220	200	75	212
		60	23	380–480Δ 660–720Y	42.0Δ/24.2Y	2310	–160	150	84	
2HB 940 H47	雙	50	25	345–415Δ 600–720Y	52.0Δ/30.0Y	1940	–310	270	75	219
		60	29	380–480Δ 660–720Y	52.0Δ/30.0Y	2310	–270	220	84	
2HB 943 H27	雙	50	15	345–415Δ 600–720Y	35.0Δ/20.0Y	2050	–160	170	75	220
		60	17.5	380–480Δ 660–720Y	36.5Δ/21.0Y	2480	–110	120	84	
2HB 943 H37	雙	50	20	345–415Δ 600–720Y	40.0Δ/23.0Y	2050	–250	230	75	230
		60	23	380–480Δ 660–720Y	42.0Δ/24.2Y	2480	–190	180	84	
2HB 943 H47	雙	50	25	345–415Δ 600–720Y	52.0Δ/30.0Y	2050	–310	270	75	235
		60	29	380–480Δ 660–720Y	52.0Δ/30.0Y	2480	–270	230	84	

2HB9/VACUUM COMPRESSION TYPE CURVE

真空壓縮選型曲綫 3AC

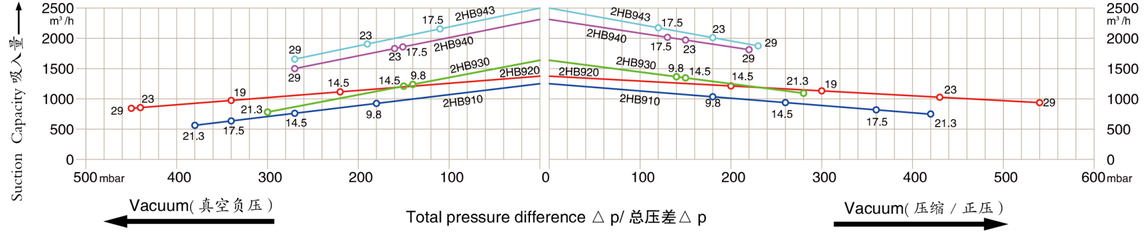
Vacuum Selection diagram 50 Hz-- 真空選型圖表 50 Hz

Compressor Selection Diagram 50 Hz-- 壓縮選



Vacuum Selection diagram 60 Hz-- 真空選型圖表 60 Hz

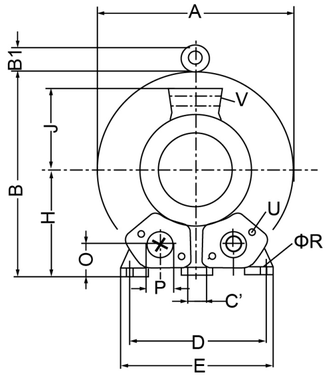
Compressor Selection Diagram 60 Hz-- 壓縮選

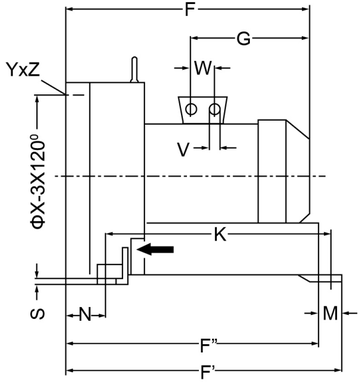


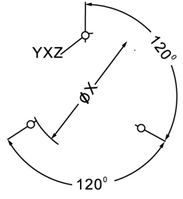
2HB9 SINGLE STAGE MOUNTING DIMENSIONS

2HB9 單級安裝尺寸

910/930





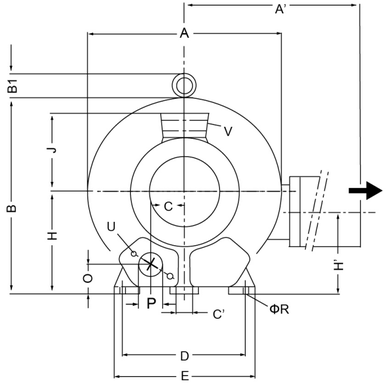


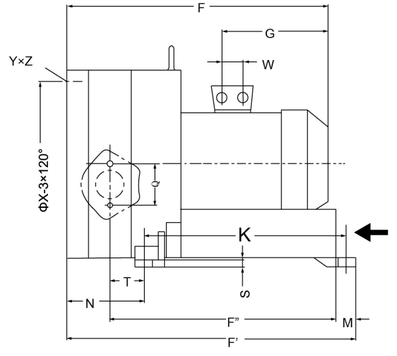
型號 Type	相位	A	B	B1	C	C'	D	E	F	F'	F''	G	H	J	K	M	N	O	P	Q	ϕR	S	U	V	W	ϕX	YXZ	X-HOLES
2HB 910-H07	3~	550	569	55	207	15	360	415	525	644	605	268	300	167	533	39	89	92	G4	150	15	21	M10x30	2XM25X1.5	42	490	M12x30	$0^0/120^0/240^0$
2HB 910-H17	3~	550	569	55	207	15	360	415	650	644	605	345	300	197	533	39	89	92	G4	150	15	21	M10x30	2XM32X1.5	54	490	M12x30	$0^0/120^0/240^0$
2HB 910-H37	3~	550	569	55	207	15	360	415	650	644	605	345	300	197	533	39	89	92	G4	150	15	21	M10x30	2XM32X1.5	54	490	M12x30	$0^0/120^0/240^0$
2HB 930-H07	3~	550	569	55	207	15	360	415	563	682	643	268	300	167	533	39	127	92	G4	150	15	21	M10x30	2XM32X1.5	42	490	M12x30	$0^0/120^0/240^0$
2HB 930-H17	3~	550	569	55	207	15	360	415	688	682	643	345	300	197	533	39	127	92	G4	150	15	21	M10x30	2XM32X1.5	54	490	M12x30	$0^0/120^0/240^0$
2HB 930-H37	3~	550	569	55	207	15	360	415	688	682	643	345	300	197	533	39	127	92	G4	150	15	21	M10x30	2XM32X1.5	54	490	M12x30	$0^0/120^0/240^0$

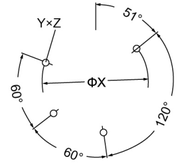
2HB920 TWO STAGE MOUNTING DIMENSIONS

2HB9 雙級安裝尺寸

920





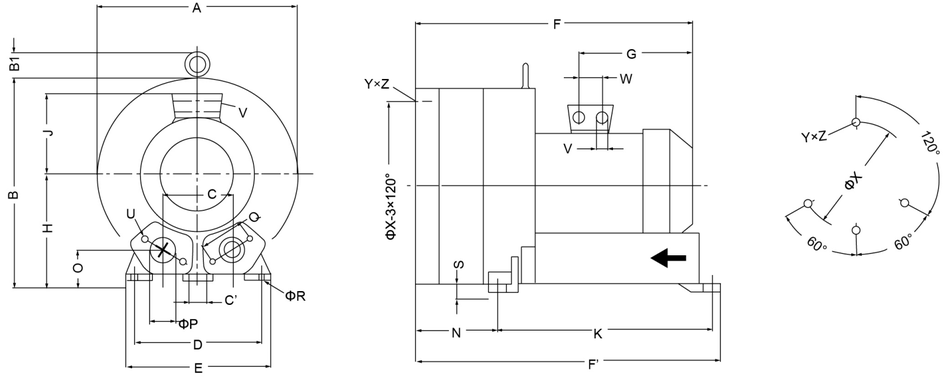


型號 Type	相位	A	A'	B	B1	C	C'	D	E	F	F'	F''	G	H	H'	J	K	M	N	O	P	Q	ϕR	S	T	U	V	W	ϕX	YXZ	X-HOLES
2HB 920-H17	3~	615	780	607	16	104	15	360	415	752	786	634	345	300	234	197	533	39	230	92	G4	150	15	21	117	M10X30	2XM32X1.5	54	490	m12x30	$51.4^0/120^0/240^0$
2HB 920-H27	3~	615	780	607	16	104	15	360	415	752	786	634	345	300	234	197	533	39	230	92	G4	150	15	21	117	M10X30	2XM32X1.5	54	490	m12x30	$51.4^0/120^0/240^0$
2HB 920-H37	3~	615	780	607	16	104	15	360	415	752	786	634	345	300	234	197	533	39	230	92	G4	150	15	21	117	M10X30	2XM32X1.5	54	490	m12x30	$51.4^0/120^0/240^0$
2HB 920-H47	3~	615	780	607	16	104	15	360	415	812	786	634	405	300	234	197	533	39	230	92	G4	150	15	21	117	M10X30	2XM32X1.5	54	490	m12x30	$51.4^0/120^0/240^0$

2HB940 TWO STAGE MOUNTING DIMENSIONS

2HB940 雙級安裝尺寸

940

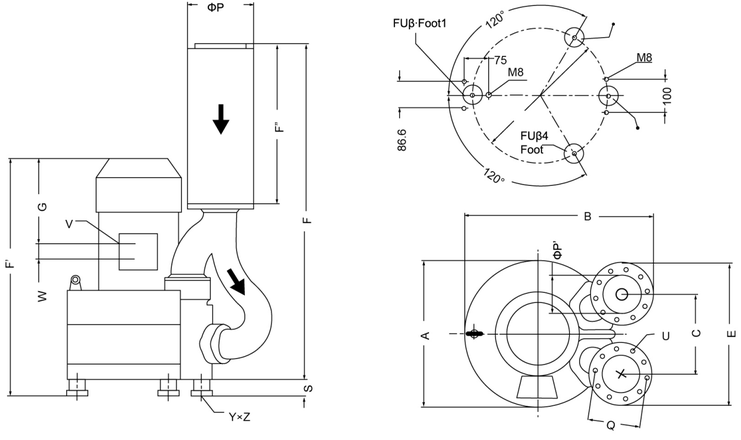


型號 Type	相位	A	B	B1	C	C'	D	E	F	F'	G	H	J	K	M	N	O	P	Q	ϕR	S	U	V	W	ϕX	YXZ	X-Holes
2HB 940-H27	3~	615	663	19	207	15	360	415	752	786	345	358	197	533	39	230	150	G4	140	15	79	M12X35	2XM32X1.5	54	490	M12X30	$120^0/60^0/60^0$
2HB 940-H37	3~	615	663	19	207	15	360	415	752	786	345	358	197	533	39	230	150	G4	140	15	79	M12X35		54	490	M12X30	$120^0/60^0/60^0$
2HB 940-H47	3~	615	663	19	207	15	360	415	812	786	345	358	197	533	39	230	150	G4	140	15	79	M12X35	2XM32X1.5	54	490	M12X30	$120^0/60^0/60^0$

2HB9 TWO STAGE MOUNTING DIMENSIONS

2HB9 雙級安裝尺寸

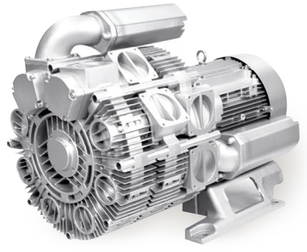
943



型號 Type	相位	A	B	C	D	E	F	F'	F' '	G	P	P'	Q	S	U	V	W	YXZ
2HB 943-H27	3~	615	723	307	490	526	1201	848	578	291	219	G5	201	58	M8X40	4XM40X1.5	54	M12X10.5
2HB 943-H37	3~	615	723	307	490	526	1201	848	578	291	219	G5	201	58	M8X40	4XM40X1.5	54	M12X10.5
2HB 943-H47	3~	615	723	307	490	526	1201	908	578	351	219	G5	201	58	M8X40	4XM40X1.5	54	M12X10.5

3HB THREE PHASE (SINGLE, DOUBLE IMPELLER) GAS RING VACUUM PUMP MODELS AND THE PERFORMANCE PARAMETERS TABLE(IP55 50/60HZ)

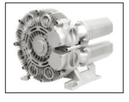
(單、雙級) 氣環真空泵型號及性能參數表 (IP55 50/60HZ)



型 號 (3HB 3AC) Model	單級	頻率	馬達參數				最大	額定	額定	噪音	重量
	雙級		功率	額定電壓		額定電流	排吸流量	真空壓力	壓縮壓力		
	single	frequency	power	voltage		current	Max airflow	rated Vacuum	rated compress	noises	Weight
	double	HZ	KW	V		A	m3/h	mbar	mbar	dB(A)	Kg
3HB 350–1H16	Single	50	2.2	200–260Δ	350–450Y	8.1Δ/4.6Y	315	–190	170	64	45
		60	2.55	230–290Δ	400–500Y	8.0Δ/4.6Y	370	–150	130	68	
3HB 350–1H26	Single	50	3.0	200–260Δ	350–450Y	11.4Δ/6.5Y	315	–290	270	65	50
		60	3.45	230–290Δ	400–500Y	10.8Δ/6.2Y	370	–250	220	69	
3HB 350–1H37	Single	50	4.0	350–450Δ	610–725Y	8.4Δ/4.8Y	315	–350	390	65	62
		60	4.6	400–500Δ	690–725Y	8.2Δ/4.7Y	370	–370	340	69	
3HB 350–1H47	Single	50	5.5	350–450Δ	610–725Y	11.1Δ/6.4Y	315	–350	500	65	74
		60	6.3	400–500Δ	690–725Y	11.0Δ/6.4Y	370	–390	510	69	
3HB 350–2H26	Double	50	3.0	200–260Δ	350–450Y	11.4Δ/6.5Y	320	–230	190	68	68
		60	3.45	230–290Δ	400–500Y	10.8Δ/6.2Y	380	–150	120	71	
3HB 350–2H37	Double	50	4.0	350–450Δ	610–725Y	8.4Δ/4.8Y	320	–350	310	69	79
		60	4.6	400–500Δ	690–725Y	8.2Δ/4.7Y	380	–280	230	72	
3HB 350–2H47	Double	50	5.5	350–450Δ	610–725Y	11.1Δ/6.4Y	320	–530	480	71	90
		60	6.3	400–500Δ	690–725Y	11.0Δ/6.4Y	380	–480	390	74	
3HB 350–2H57	Double	50	7.5	350–450Δ	610–725Y	15.0Δ/8.7Y	320	–530	700	71	97
		60	8.6	400–500Δ	690–725Y	15.1Δ/8.8Y	380	–580	610	74	
3HB 350–2H67	Double	50	11	350–450Δ	610–725Y	22.0Δ/12.7Y	320	–530	870	72	120
		60	12.6	400–500Δ	690–725Y	22.0Δ/12.9Y	380	–580	930	76	
3HB 350–3H37	Triple	50	4.0	350–450Δ	345–415Y	8.4Δ/4.8Y	320	–300	250	69	82
		60	4.6	400–500Δ	690–725Y	8.2Δ/4.7Y	380	–200	150	72	
3HB 350–3H47	Triple	50	5.5	350–450Δ	610–725Y	11.1Δ/6.4Y	320	–490	410	71	93
		60	6.3	400–500Δ	690–725Y	11.0Δ/6.4Y	380	–410	300	74	
3HB 350–3H57	Triple	50	7.5	350–450Δ	610–725Y	15.0Δ/8.7Y	320	–680	620	71	100
		60	8.6	400–500Δ	690–725Y	15.1Δ/8.8Y	380	–650	510	74	
3HB 350–3H67	Triple	50	11.0	350–450Δ	610–725Y	22.0Δ/12.7Y	320	–680	1020	72	120
		60	12.6	400–500Δ	690–725Y	22.0Δ/12.9Y	380	–650	880	76	
3HB 350–3H77	Triple	50	15.0	350–450Δ	610–725Y	30.5Δ/17.3Y	320	–680	1020	72	136
		60	17.3	400–500Δ	690–725Y	29.5Δ/17.0Y	380	–650	1050	76	
3HB 550–1H26	Single	50	3.0	200–260Δ	350–450Y	11.4Δ/6.5Y	480	–130	120	69	66
		60	3.45	230–290Δ	400–500Y	10.8Δ/6.2Y	565	–70	60	74	
3HB 550–1H37	Single	50	4.0	350–450Δ	610–725Y	8.4Δ/4.8Y	480	–230	200	69	78
		60	4.6	400–500Δ	690–725Y	8.2Δ/4.7Y	565	–170	140	74	
3HB 550–1H47	Single	50	5.5	350–450Δ	610–725Y	11.1Δ/6.4Y	480	–380	330	69	88
		60	6.3	400–500Δ	690–725Y	11.0Δ/6.4Y	565	–310	260	85	
3HB 550–1H57	Single	50	7.5	350–450Δ	610–725Y	15.0Δ/8.7Y	480	–380	500	69	96
		60	8.6	400–500Δ	690–725Y	15.1Δ/8.8Y	565	–410	440	85	
3HB 550–2H47	Double	50	5.5	350–450Δ	610–725Y	11.1Δ/6.4Y	480	–270	220	70	118
		60	6.3	400–500Δ	690–725Y	11.0Δ/6.4Y	580	–180	130	74	
3HB 550–2H57	Double	50	7.5	350–450Δ	610–725Y	15.0Δ/8.7Y	480	–450	370	70	126
		60	8.6	400–500Δ	690–725Y	15.1Δ/8.8Y	580	–370	280	74	
3HB 550–2H67	Double	50	11.0	350–450Δ	610–725Y	22.0Δ/12.7Y	480	–530	630	70	145
		60	12.6	400–500Δ	690–725Y	22.0Δ/12.9Y	580	–540	530	74	
3HB 550–2H77	Double	50	15.0	350–450Δ	610–725Y	30.5Δ/17.3Y	480	–530	890	70	156
		60	17.3	400–500Δ	690–725Y	29.5Δ/17.0Y	580	–540	870	74	
3HB 550–3H57	Triple	50	7.5	350–450Δ	610–725Y	15.0Δ/8.7Y	480	–380	280	71	142
		60	8.6	400–500Δ	690–725Y	15.1Δ/8.8Y	580	–240	140	77	
3HB 550–3H67	Triple	50	11.0	350–450Δ	610–725Y	22.0Δ/12.7Y	480	–610	540	71	167
		60	12.6	400–500Δ	690–725Y	22.0Δ/12.9Y	580	–590	390	77	
3HB 550–3H77	Triple	50	15.0	350–450Δ	610–725Y	30.5Δ/17.3Y	480	–610	830	71	180
		60	17.3	400–500Δ	690–725Y	29.5Δ/17.0Y	580	–590	680	77	
3HB 550–3H87	Triple	50	18.5	350–450Δ	610–725Y	37.0Δ/21.0Y	480	–610	1020	71	195
		60	21.3	400–500Δ	690–725Y	36.5Δ/21.0Y	580	–590	870	77	

3HB Double/Multi-Stage Selection diagram 50/60Hz

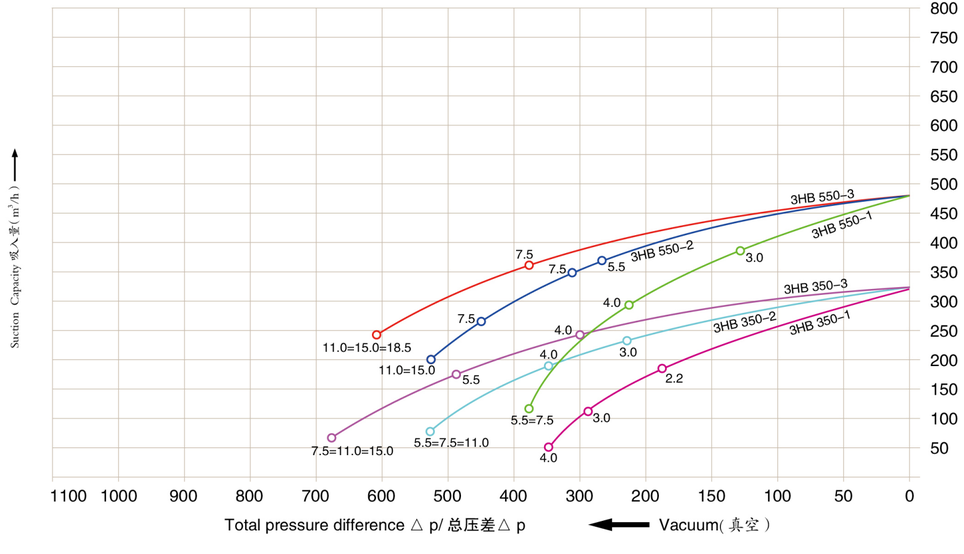
3HB 雙極和三級系列 50/60Hz 選型圖表 3AC



下面的性能曲綫是在抽吸 15℃空氣，排氣壓力 1013mbar 的工况下測出的，允差 ±10%，吸入空氣和環境温度不超過 25℃時，即可達到圖示總壓差。

The performance curves are valid for pumping air at 15℃ at the inlet flanges with an air pressureof 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatrue of 25℃ .

Vacuum Selection diagram 50Hz-- 真空選型圖表 50Hz



3HB Double/Multi-Stage Selection diagram 50/60Hz

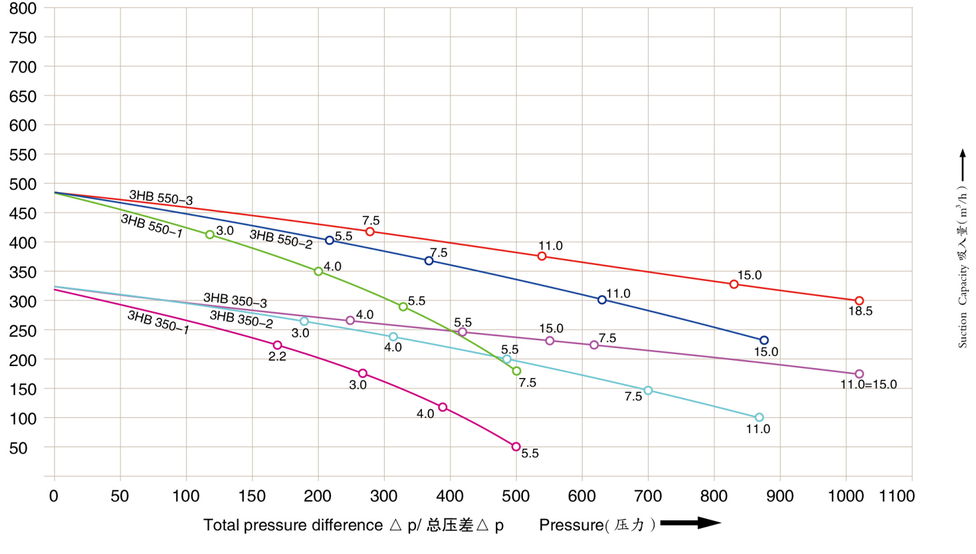
3HB 雙極和三級系列 50/60Hz 選型圖表 3AC



下面的性能曲綫是在抽吸 15℃空氣，排氣壓力 1013mbar 的工况下測出的，允差 ±10%，吸入空氣和環境温度不超過 25℃時，即可達到圖示總壓差。

The performance curves are valid for pumping air at 15℃ at the inlet flanges with an air pressureof 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatrue of 25℃ .

Compressor Celetion Diagram 50Hz-- 壓縮選型圖表 50Hz



3HB Double/Multi-Stage Selection diagram 50/60Hz

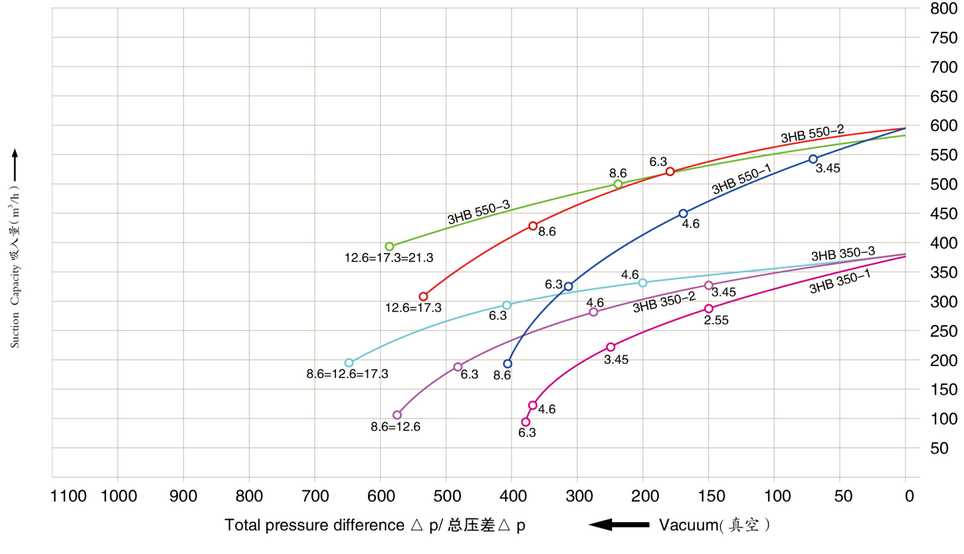
3HB 雙極和三級系列 50/60Hz 選型圖表 3AC



下面的性能曲綫是在抽吸 15℃空氣，排氣壓力 1013mbar 的工况下測出的，允差 ±10%，吸入空氣和環境温度不超過 25℃時，即可達到圖示總壓差。

The performance curves are valid for pumping air at 15℃ at the inlet flanges with an air pressureof 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatrue of 25℃ .

Vacuum Selection diagram 60Hz-- 真空選型圖表 60Hz



3HB Double/Multi-Stage Selection diagram 50/60Hz

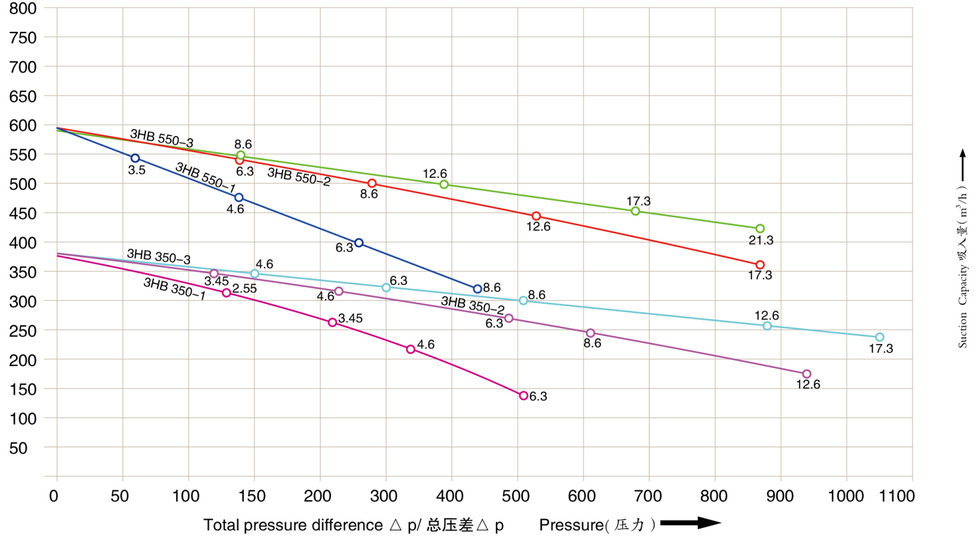
3HB 雙極和三級系列 50/60Hz 選型圖表 3AC



下面的性能曲綫是在抽吸 15℃空氣，排氣壓力 1013mbar 的工况下測出的，允差 ±10%，吸入空氣和環境温度不超過 25℃時，即可達到圖示總壓差。

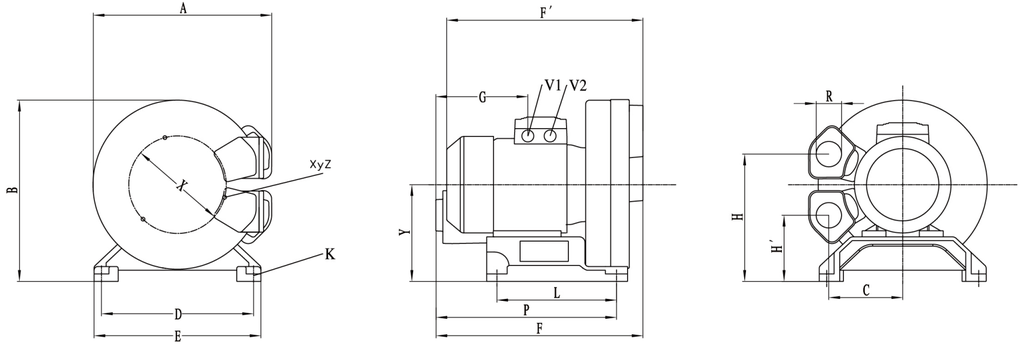
The performance curves are valid for pumping air at 15℃ at the inlet flanges with an air pressureof 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatrue of 25℃ .

Compressor Celetion Diagram 60Hz-- 壓縮選型圖表 60Hz



3HB3 TWO STAGE MOUNTING DIMENSIONS
3HB3 雙級安裝尺寸

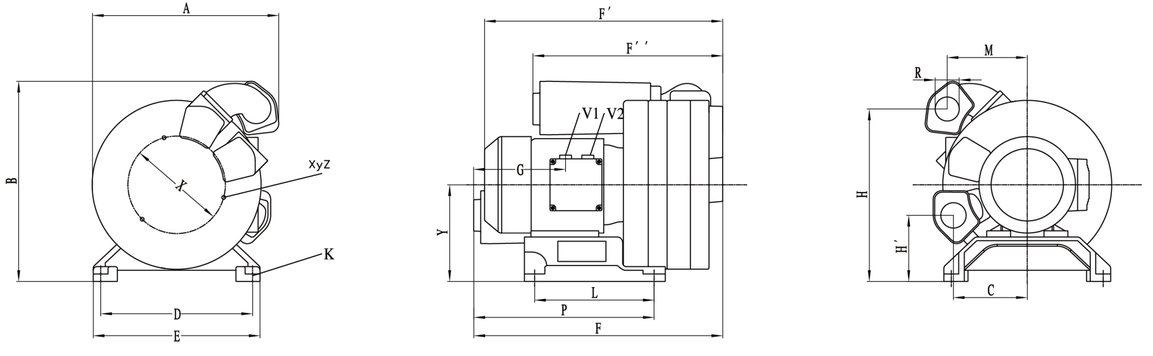
350-1



型號 Type	相位	A	B	C	D	E	F	F´	G	H	H´	K	L	P	R	V1	V2	X	Y-Z
3HB 350-1H26	3	485	490	199	420	450	530	420	188	340	175	Φ14.5	324	423	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-1H37	3	485	490	199	420	450	530	420	188	340	175	Φ14.5	324	423	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-1H47	3	485	490	199	420	450	530	524	225	340	175	Φ14.5	324	423	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20

3HB3 TWO STAGE MOUNTING DIMENSIONS
3HB3 雙級安裝尺寸

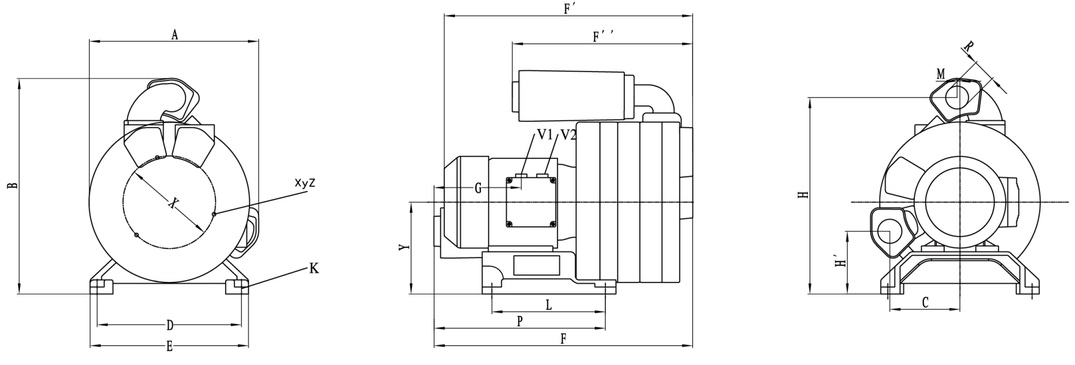
350-2



型號 Type	相位	A	B	C	D	E	F	F´	F´´	G	H	H´	K	L	M	P	R	V1	V2	X	Y-Z
3HB 350-2H26	3	507	537	199	420	450	649	540	482	240	464	175	Φ14.5	324	220	447	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-2H37	3	507	536	199	420	450	649	540	482	240	466	175	Φ14.5	324	220	447	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-2H47	3	507	536	199	420	450	649	643	482	230	466	175	Φ14.5	324	220	447	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-2H57	3	507	536	199	420	450	649	643	482	230	466	175	Φ14.5	324	220	447	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-2H67	3	507	564	199	420	450	649	733	482	290	494	203	Φ14.5	324	220	447	G2½	2*M32*1.5	2*M32*1.5	Φ228	M8*20

3HB3 TWO STAGE MOUNTING DIMENSIONS
3HB3 雙級安裝尺寸

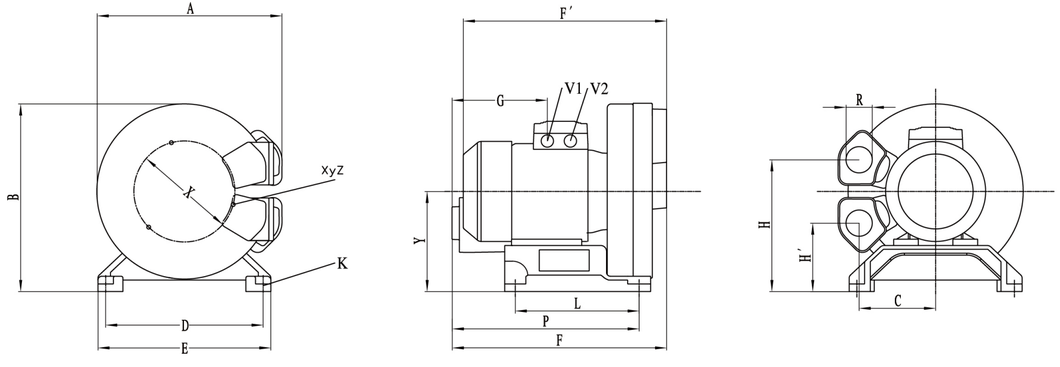
350-3



型號 Type	相位	A	B	C	D	E	F	F′	F″	G	H	H′	K	L	M	P	R	V1	V2	X	Y-Z
3HB 350-3H37	3	481	610	199	420	450	765	660	482	242	561	175	Φ14.5	324	8	425	G2 1/2	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-3H47	3	481	610	199	420	450	765	762	482	230	561	175	Φ14.5	324	8	425	G2 1/2	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-3H57	3	481	610	199	420	450	765	762	482	230	561	175	Φ14.5	324	8	425	G2 1/2	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-3H67	3	481	638	199	420	450	765	852	482	290	589	203	Φ14.5	324	8	425	G2 1/2	2*M32*1.5	2*M32*1.5	Φ228	M8*20
3HB 350-3H77	3	481	638	199	420	450	765	852	482	290	589	203	Φ14.5	324	8	425	G2 1/2	2*M32*1.5	2*M32*1.5	Φ228	M8*20

3HB5 TWO STAGE MOUNTING DIMENSIONS
3HB5 雙級安裝尺寸

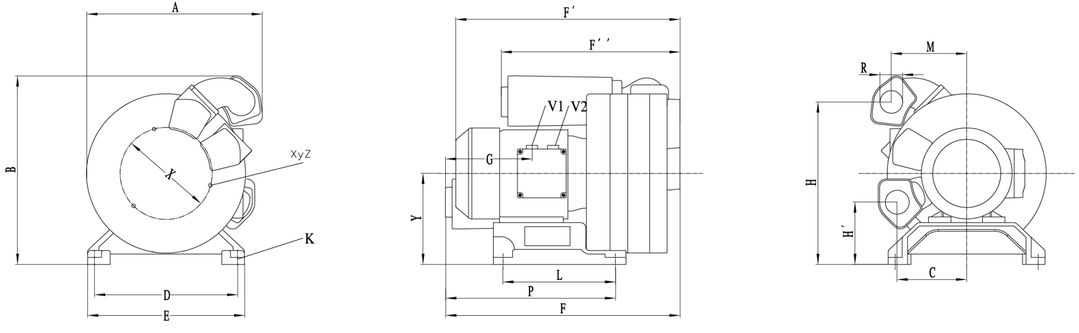
550-1



型號 Type	相位	A	B	C	D	E	F	F′	G	H	H′	K	L	P	R	V1	V2	Y-Z
3HB 550-1H26	3	553	545	228	420	450	615	502	302	374	184	Φ14.5	262	520	G3	2*M32*1.5	2*M32*1.5	M8*20
3HB 550-1H37	3	553	547	228	420	450	615	502	302	374	186	Φ14.5	262	520	G3	2*M32*1.5	2*M32*1.5	M8*20
3HB 550-1H47	3	553	547	228	420	450	615	530	309	374	186	Φ14.5	262	520	G3	2*M32*1.5	2*M32*1.5	M8*20
3HB 550-1H57	3	553	547	228	420	450	615	530	309	374	186	Φ14.5	262	520	G3	2*M32*1.5	2*M32*1.5	M8*20

3HB5 TWO STAGE MOUNTING DIMENSIONS
3HB5 雙級安裝尺寸

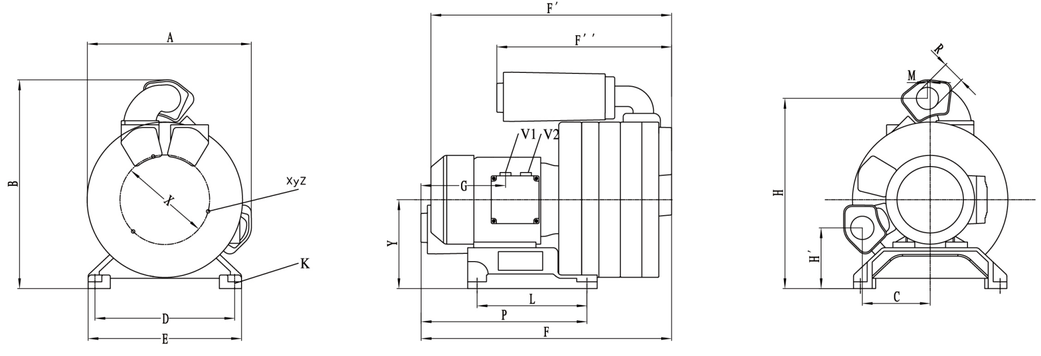
550-2



型號 Type	相位	A	B	C	D	E	F	F′	F″	G	H	H′	K	L	M	P	R	V1	V2	X	Y-Z
3HB 550-2H47	3	578	600	228	420	450	743	660	571	302	496	167	Φ14.5	324	248	518	G3	2*M32*1.5	2*M32*1.5	Φ255	M8*20
3HB 550-2H57	3	578	600	228	420	450	743	660	571	302	496	167	Φ14.5	324	248	518	G3	2*M32*1.5	2*M32*1.5	Φ255	M8*20
3HB 550-2H67	3	578	628	228	420	450	743	776	571	276	551	218	Φ14.5	324	248	518	G3	2*M40*1.5	2*M40*1.5	Φ255	M8*20
3HB 550-2H77	3	578	628	228	420	450	743	776	571	276	551	218	Φ14.5	324	248	518	G3	2*M40*1.5	2*M40*1.5	Φ255	M8*20

3HB5 TWO STAGE MOUNTING DIMENSIONS
3HB5 雙級安裝尺寸

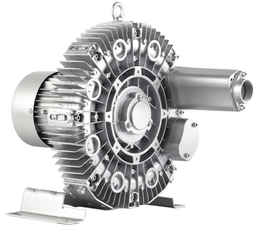
550-3

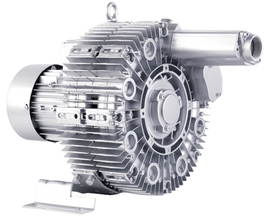


型號 Type	相位	A	B	C	D	E	F	F′	F″	G	H	H′	K	L	M	P	R	V1	V2	X	Y-Z
3HB 550-3H57	3	553	682	228	420	450	873	790	571	302	630	167	Φ14.5	324	8	518	G3	2*M32*1.5	2*M32*1.5	Φ255	M8*20
3HB 550-3H67	3	553	710	228	420	450	873	910	571	276	630	218	Φ14.5	324	8	518	G3	2*M40*1.5	2*M40*1.5	Φ255	M8*20
3HB 550-3H77	3	553	710	228	420	450	873	910	571	276	630	218	Φ14.5	324	8	518	G3	2*M40*1.5	2*M40*1.5	Φ255	M8*20
3HB 550-3H87	3	553	710	228	420	450	873	910	571	276	630	218	Φ14.5	324	8	518	G3	2*M40*1.5	2*M40*1.5	Φ255	M8*20

4HB 1AC Selection and ordering data for side channel blowers in vacuum and pressure operation (Single phase)

漩渦式氣泵在真空和壓力操作的選型和訂購參數（單相）

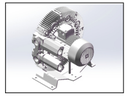




型 號 (4HB 1AC) Model	單	馬達參數				最大 排吸流量	額定 真空壓力	額定 壓縮壓力	噪音	重量
	雙	頻率	功率	額定電壓	額定電流					
	Single	Frequency	Power	Voltage	Current	Max airflow	Rated Vacuum	Rated compress	Noises	Weight
	Double	HZ	KW	V	A	m^3/h	mbar	mbar	dB(A)	Kg
4HB 210 A01	單	50	0.55	230	3.7	47	–230	290	57	18
		60	0.63	230	4.5	57	–270	320	62	
4HB 220 A11	雙	50	1.5	230	9	47	–370	600	58	30
		60	1.75	230	10	60	–420	660	62	
4HB 310 A01	單	50	0.94	230	7.6	66	–250	350	57	18
		60	1.1	230	9	80	–280	390	62	
4HB 320 A21	雙	50	1.5	230	9	65	–400	550	59	32
		60	1.75	230	10	76	–390	540	63	
4HB 410 A01	單	50	1.1	230	10.1	87	–300	380	58	23
		60	1.3	230	10.3	105	–350	390	63	

4HB Series Selection diagram 50/60Hz 1AC

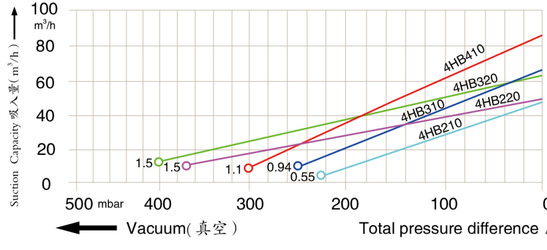
4HB 系列 50/60Hz 選型圖表 1AC



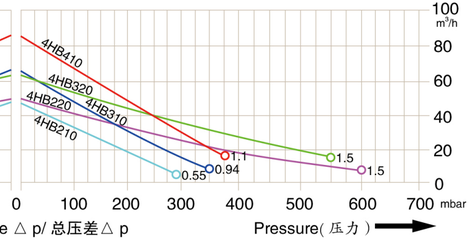
下面的性能曲綫是在抽吸 15℃空氣，排氣壓力 1013mbar 的工况下测出的，允差 ±10%，吸入空氣和環境温度不超過 25℃時，即可達到圖示總壓差。

The performance curves are valid for pumping air at 15℃ at the inlet flanges with an air pressureof 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatrue of 25℃ .

Vacuum Selection diagram 50Hz-- 真空選型圖表 50Hz

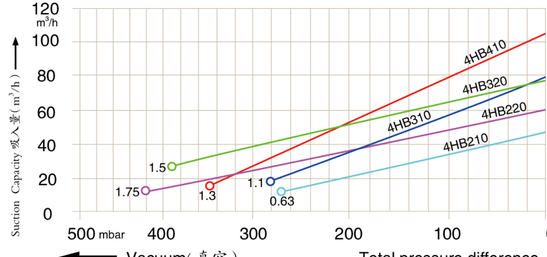


Compressor Celetion Diagram 50Hz-- 壓縮選型圖表 50Hz

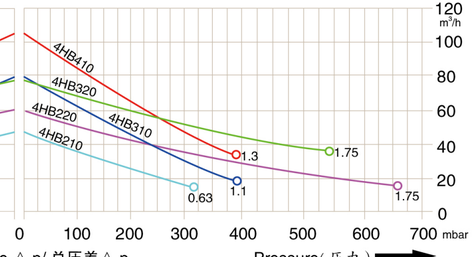


Total pressure difference △ p/ 总压差△ p

Vacuum Selection diagram 60Hz-- 真空選型圖表 60Hz



Compressor Celetion Diagram 60Hz-- 壓縮選型圖表 60Hz



Total pressure difference △ p/ 总压差△ p

4HB 3AC Selection and ordering data for side channel blowers in vacuum and pressure operation (Three phase single stage)

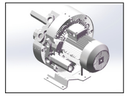
漩涡式氣泵在真空和壓力操作的選型和訂購參數（三相、單級）

G 系列 · G-Series

型 號 (4HB 3AC) Model	單級	馬達參數					最大 排吸流量	額定 真空壓力	額定 壓縮壓力	噪音	重量
	雙級	頻率	功率	額定電壓		額定電流					
	Single	Frequency	Power	Voltage		Current	Max airflow	Rated Vacuum	Rated compress	Noises	Weight
	Double	HZ	KW	V		A	m^3/h	mbar	mbar	dB(A)	Kg
4HB 210 H16	單	50	0.55	200–240Δ	345–415Y	2.8Δ/1.6Y	47	–230	290	57	16
		60	0.63	220–275Δ	380–480Y	3Δ/1.7Y	57	–270	320	62	
4HB 310 H16	單	50	0.55	200–240Δ	345–415Y	2.8Δ/1.6Y	66	–250	250	57	16
		60	0.63	220–275Δ	380–480Y	3Δ/1.7Y	80	–260	250	62	
4HB 310 H26	單	50	0.81	200–240Δ	345–415Y	4Δ/2.3Y	66	–280	350	57	16
		60	0.94	220–275Δ	380–480Y	4Δ/2.3Y	80	–340	360	62	
4HB 410 H16	單	50	1.1	200–240Δ	345–415Y	5.4Δ/3.1Y	87	–300	380	58	16
		60	1.3	220–275Δ	380–480Y	5.4Δ/3.1Y	105	–340	370	64	
4HB 510 H16	單	50	1.5	200–240Δ	345–415Y	7.5Δ/4.3Y	120	–310	360	64	26
		60	1.75	220–275Δ	380–480Y	7.6Δ/4.4Y	145	–340	320	68	
4HB 510 H26	單	50	2.2	345–415Δ	600–720Y	11.4Δ/6.6Y	120	–310	470	64	29
		60	2.55	380–480Δ	660–720Y	11.2Δ/6.5Y	145	–360	480	68	
4HB 610 H16	單	50	2.2	200–240Δ	345–415Y	11.4Δ/6.6Y	165	–340	360	65	32
		60	2.55	220–275Δ	380–480Y	11.2Δ/6.5Y	195	–360	315	71	
4HB 610 H36	單	50	3.3	200–240Δ	345–415Y	13Δ/7.5Y	165	–340	480	65	35
		60	3.8	220–275Δ	380–480Y	14.2Δ/8.2Y	195	–380	530	71	

4HB Series Selection diagram 50/60Hz 3AC

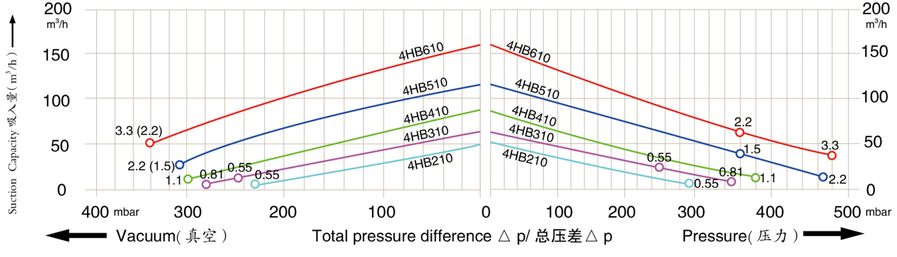
4HB 系列 50/60Hz 選型圖表 3AC



下面的性能曲綫是在抽吸 15℃空氣，排氣壓力 1013mbar 的工况下測出的，允差 ±10%，吸入空氣和環境温度不超過 25℃時，即可達到圖示總壓差。

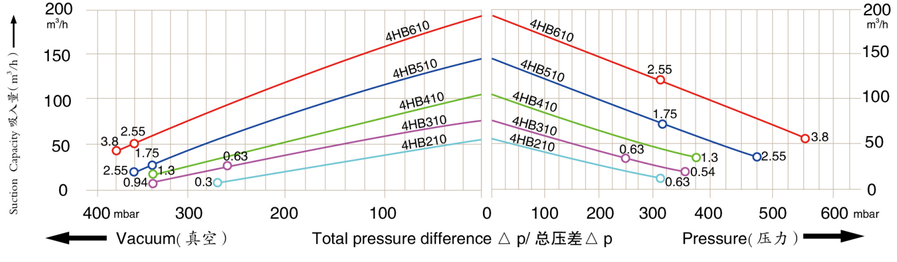
The performance curves are valid for pumping air at 15℃ at the inlet flanges with an air pressureof 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatrue of 25℃ .

Vacuum Selection diagram 50Hz-- 真空選型圖表 50Hz



Compressor Celetion Diagram 50Hz-- 壓縮選型圖表 50Hz

Vacuum Selection diagram 60Hz-- 真空選型圖表 60Hz



Compressor Celetion Diagram 60Hz-- 壓縮選型圖表 60Hz

4HB 3AC Selection and ordering data for side channel blowers in vacuum and pressure operation (Multi- stage)

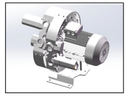
漩渦式氣泵在真空和壓力操作的選型和訂購參數（多級）

G 系列 · G-Series

型號 (4HB 3AC) Model	單級 / 雙級 Single / Double	馬達參數 頻率 Frequency HZ	功率 Power KW	額定電壓 Voltage V		額定電流 Current A	最大排吸流量 Max airflow m^3/h	額定真空壓力 Rated Vacuum mbar	額定壓縮壓力 Rated compress mbar	噪音 Noises dB(A)	重量 Weight Kg
4HB 220 H26	雙	50	0.81	200–240△	345–415Y	4△/2.3Y	47	–370	490	58	24
		60	0.94	220–275△	380–480Y	4△/2.3Y	60	–440	480	62	
4HB 220 H56	雙	50	1.5	200–240△	345–415Y	7.5△/4.3Y	47	–370	650	58	28
		60	1.75	220–275△	380–480Y	7.6△/4.4Y	60	–500	740	62	
4HB 320 H46	雙	50	1.1	200–240△	345–415Y	5.4△/3.1Y	65	–400	480	59	29
		60	1.3	220–275△	380–480Y	5.4△/3.1Y	76	–480	480	63	
4HB 320 H56	雙	50	1.5	200–240△	345–415Y	7.5△/4.3Y	65	–440	540	59	30
		60	1.75	220–275△	380–480Y	7.5△/4.4Y	76	–560	600	63	
4HB 420 H26	雙	50	1.5	200–240△	345–415Y	7.5△/4.3Y	87	–480	450	61	33
		60	1.75	220–275△	380–480Y	7.6△/4.4Y	105	–430	410	66	
4HB 420 H56	雙	50	3.3	200–240△	345–415Y	13△/7.5Y	87	–500	750	61	39
		60	3.8	220–275△	380–480Y	13.8△/8Y	105	–510	850	66	
4HB 520 H26	雙	50	2.2	200–240△	345–415Y	11.4△/6.6Y	120	–470	460	64	40
		60	2.55	220–275△	380–480Y	11.2△/6.5Y	145	–500	450	70	
4HB 520 H77	雙	50	4	345–415△	600–720Y	10.0△/5.8Y	120	–500	820	65	51
		60	4.6	380–480△	660–720Y	9.8△/5.7Y	145	–530	810	71	
4HB 620 H36	雙	50	3.3	200–240△	345–415Y	13△/7.5Y	165	–460	500	67	48
		60	3.8	220–275△	380–480Y	14.2△/8.2Y	195	–480	420	71	
4HB 620 H57	雙	50	5.5	345–415△	600–720Y	13.3△/7.7Y	165	–460	740	68	65
		60	6.3	380–480△	660–720Y	13.3△/7.7Y	195	–480	840	72	
4HB 650 H67	三	50	7.5	345–415△	600–720Y	16.7△/9.6Y	170	–730	1040	72	86
		60	8.6	380–480△	660–720Y	17.3△/10.0Y	200	–700	1040	76	

4HB Double/Multi–Stage Selection diagram 50/60Hz

4HB 雙極和三級系列 50/60Hz 選型圖表 3AC



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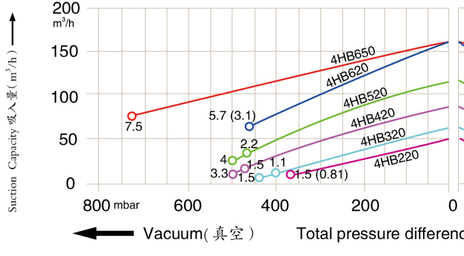
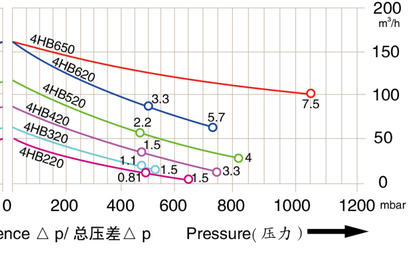
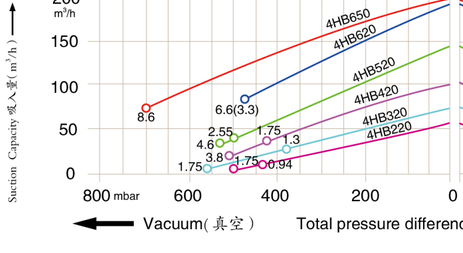
Vacuum Selection diagram 50Hz-- 真空選型圖表 50Hz



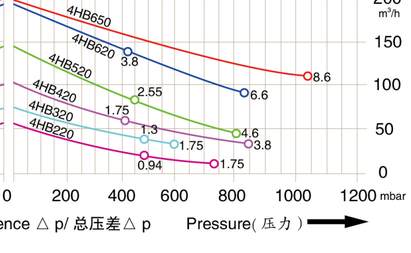
Compressor Celetion Diagram 50Hz-- 壓縮選型圖表 50Hz



Vacuum Selection diagram 60Hz-- 真空選型圖表 60Hz

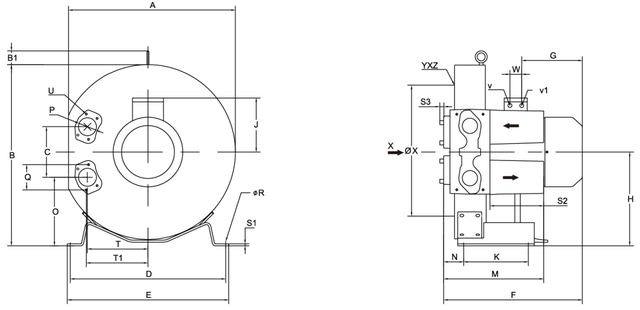


Compressor Celetion Diagram 60Hz-- 壓縮選型圖表 60Hz



4HB Diemenslons for side channel blower 4HB210., 4HB310., 4HB410., 4HB510., 4HB610.(mm)
側風道風機尺寸 4HB210., 4HB310., 4HB410., 4HB510., 4HB610.(mm)

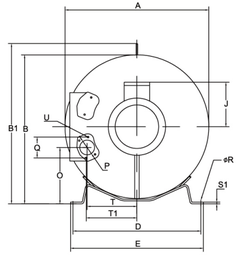
610

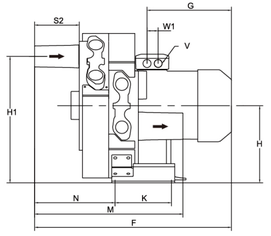


Type	Phases																												
型號	相位	A	B	B'	C	D	E	F	G	H	J	K	M	N	O	P	Q	ϕR	S_1	S_2	S_3	T	T_1	U	V	V_1	W	ϕX	Y×Z
4HB210–H16	3~	294	319	39	87	260	298	293	129	167	111	105	252	65	124	G1 1/4	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32	153	M6x15
4HB210–A01	1~	294	319	39	87	260	298	293	129	167	111	105	252	65	124	G1 1/4	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32	153	M6x15
4HB310–H16	3~	313	339	39	94	290	325	295	153	177	120	105	256	67	130	G1 1/4	64	14	4	140	31	114	116	M6x17	M25x1.5	M16x1.5	32	153	M6x15
4HB310–H26	3~	313	339	39	94	290	325	295	153	177	120	105	256	67	130	G1 1/4	64	14	4	140	31	114	116	M6x17	M25x1.5	M16x1.5	32	153	M6x15
4HB310–A11	1~	313	339	39	94	290	325	295	153	177	120	105	256	67	130	G1 1/4	64	14	4	140	31	114	116	M6x17	M25x1.5	M16x1.5	32	153	M6x15
4HB410–H16	3~	346	375	38	103	315	350	321	153	195	120	130	260	66	143	G1 1/4	64	14	4	140	31	125	127	M6x17	M25x1.5	M16x1.5	32	167	M6x15
4HB410–A01	1~	346	375	38	103	315	350	321	153	195	120	130	260	66	143	G1 1/4	64	14	4	140	31	125	127	M6x17	M25x1.5	M16x1.5	32	167	M6x15
4HB510–H16	3~	368	395	39	114	328	363	361	185	205	128	152	265	68	148	G1 1/4	64	14	5	140	31	137	138	M6x17	M25x1.5	M16x1.5	32	192	M8x15
4HB510–H26	3~	368	395	39	114	328	363	361	185	205	128	152	265	68	148	G1 1/4	64	14	5	140	31	137	138	M6x17	M25x1.5	M16x1.5	32	192	M8x15
4HB610–H16	3~	418	455	39	127	371	406	364	185	235	128	152	271	72	172	G1 1/4	64	14	5	140	31	153	155	M6x17	M25x1.5	M16x1.5	32	228	M8x15
4HB610–H36	3~	418	455	39	127	371	406	390	211	235	128	152	271	72	172	G1 1/4	64	14	5	140	31	153	155	M6x17	M25x1.5	M16x1.5	32	228	M8x15

4HB Diemensions for side channel blower 4HB220., 4HB320., 4HB420., 4HB520., 4HB620., 4HB650.(mm)
側風道風機尺寸 4HB220., 4HB320., 4HB420., 4HB520., 4HB620., 4HB650.(mm)

620





Type	Phases																												
型號	相位	A	B	B'	C_2	D	E	F	H	H_1	J	K	M	N	O	P	Q	ϕR	S_1	S_2	S_3	T	T_1	U	V	V_1	W
4HB220 H26	3~	313	326	359	43	260	298	469	167	272	111	105	426	241	123	G1 1/4	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32
4HB220 H56	3~	313	326	359	43	260	298	525	167	272	128	105	426	241	123	G1 1/4	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32
4HB220 H75	3~	313	326	359	43	260	298	525	167	272	128	105	426	241	123	G1 1/4	64	14	4	140	31	105	107	M6x17	M25x1.5	M16x1.5	32
4HB320 H46	3~	331	345	380	47	290	325	490	177	291	120	105	431	243	130	G1 1/4	64	14	4	140	31	114	116	M6x17	M25x1.5	M16x1.5	32
4HB320 H56	3~	331	345	380	47	290	325	521	177	291	128	105	431	243	130	G1 1/4	64	14	4	140	31	114	116	M6x17	M25x1.5	M16x1.5	32
4HB320 H75	3~	331	345	380	47	290	325	521	177	291	128	105	431	243	130	G1 1/4	64	14	4	140	31	125	127	M6x17	M25x1.5	M16x1.5	32
4HB420 H26	3~	363	377	414	52	315	350	529	195	319	128	130	436	243	143	G1 1/4	64	14	4	140	31	125	127	M6x17	M25x1.5	M16x1.5	32
4HB420 H56	3~	363	377	414	52	315	350	554	195	319	128	130	436	243	143	G1 1/4	64	14	4	140	31	125	127	M6x17	M25x1.5	M16x1.5	32
4HB520 H26	3~	387	402	435	57	328	363	549	206	343	128	152	453	256	148	G1 1/4	64	14	5	140	31	137	138	M6x17	M25x1.5	M16x1.5	42
4HB520 H77	3~	387	402	435	57	328	363	603	206	343	148	152	453	256	148	G1 1/4	64	14	5	140	31	137	138	M6x17	2xM32x1.5	M16x1.5	32
4HB620 H36	3~	442	457	495	63	372	406	578	236	389	128	152	458	259	173	G1 1/4	64	14	5	140	31	153	155	M6x17	M25x1.5	M16x1.5	42
4HB620 H57	3~	442	457	495	63	372	406	643	236	389	148	152	458	259	173	G1 1/4	64	14	5	140	31	153	155	M6x17	2xM32x1.5	M16x1.5	42

Type	Phases																										
型號	相位	A	B	B'	C_2	D	E	F	G	H	H1	K	M	N	O	P	Q	ϕR	S_1	S_2	T	U	V	W_1	W_2
4HB650 H67	3~	442	402	492	63	371	406	717	274	236	389	152	539	336	172	G1 1/4	64	14	5	146	153	M6x17	M32x1.5	42	120

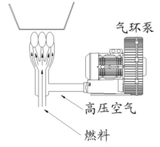
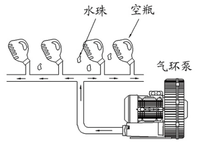
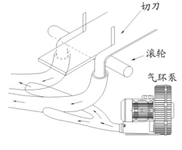
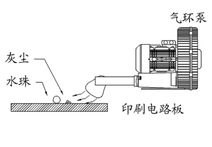
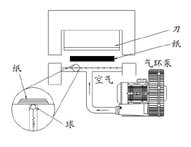
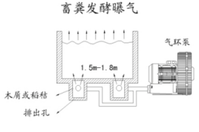
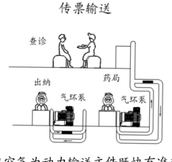
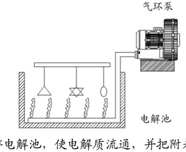
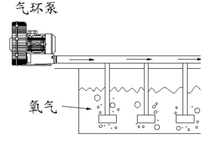
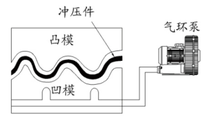
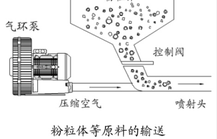
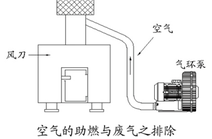
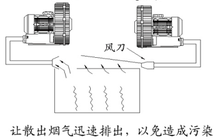
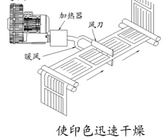
附件展示
ACCESSORIES DISPLAY



塑料過濾桶 Transparent air filter	鐵過濾桶 Iron air filter	塑料簡易過濾器 Plastic simple air filter
		

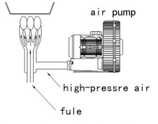
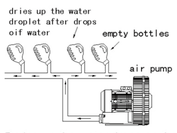
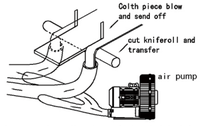
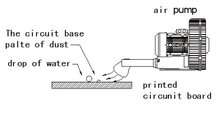
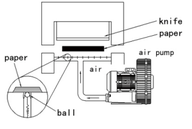
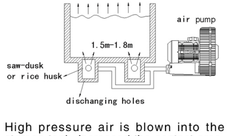
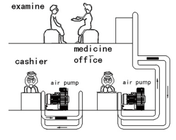
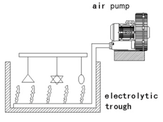
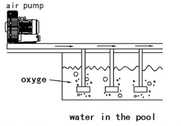
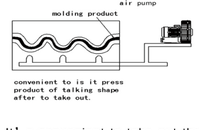
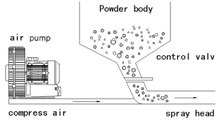
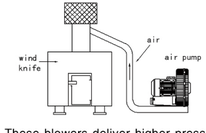
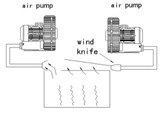
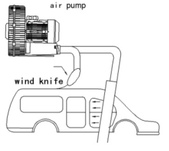
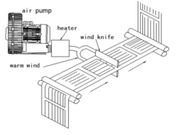
鐵簡易過濾器 Iron simple air filter	鋁釋壓閥 Aluminium relief valve	塑料釋壓閥 Plastic relief valve	不銹鋼外置消聲器 Stainless steel silencer
			

工業應用案例（送風）

瓦斯重油喷燃	洗瓶机吹干	纸布条吹送	干燥用空气刀	断机气垫
				
高压风机（2.000mmaq）足够的风量，将减轻您对压缩机的依赖	饮料空瓶水洗后将水滴吹干，适用于食品业	塑料、布、纸等裁边后自动收集	电路板可利用送风机来吹出微小灰尘和杂物	截增加浮力，容易移动
畜粪发酵曝气	**传票输送**	**电解液搅拌**	**养殖池的空气补给**	**冲床机**
				
以高压空气吹入蓄粪槽，增加接触面积，亦适合于公害污水处理	以空气为动力输送文件既快有准确	搅拌电解池，使电解质流通，并把附着水泡驱开，令电镀迅速，效果均匀	水中氧气补给用	帮助取出冲压件
粉粒体輸送	**焚化炉**	**烟气吹送**	**洗车吹干**	**印刷强制干燥**
				
粉粒体等原料的输送	空气的助燃与废气之排除	让散出烟气迅速排出，以免造成污染	洗车机洗完后吹干水分	使印色迅速干燥

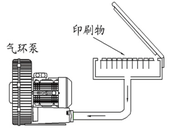
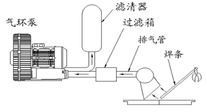
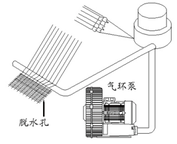
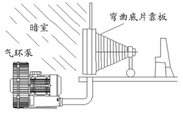
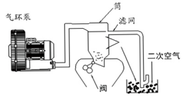
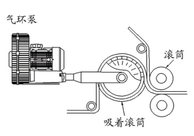
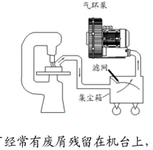
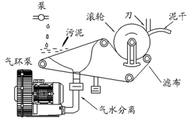
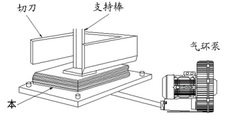
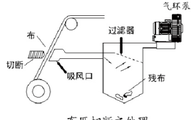
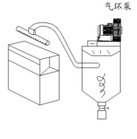
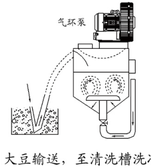
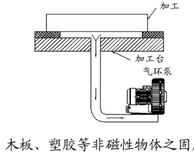
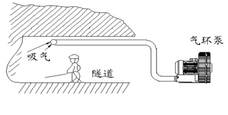
APPLICATION EXAMPLE USE FOR BLOWING

• Blow hoover exhaust cool transport air cushion

The gas and heavy oil gush out firing	Bottle washing machine drying up	Collecting the bits automatically after paper cutting	Blower For Drying / Debris Removal With Air Knife	Air cushion
				
The adequate ventilation from high pressure air (2.000mmaq) will reduce the dissipation of compressor .	Drying up the water drops on the beverage bottle. Fit for Food industry.	Automatic collection of plastic/cloth/ paper cutting edge.	The air pump can be used to blow dust and debris on circuit board	Increasing the buoyancy force to make it move easily
The fermentation of excrement gas aeration	**Documents conveying**	**The electrolyte stirring**	**Oxygen supply for aquaculture**	**Punching machine**
				
High pressure air is blown into the storage tank, increased the contact area. It also suitable for polluted wasted water	It’s more accurate and fast to convey document by air pump force	Stirring the electrolyte and disperse the water bubble, that make electroplate rapidly and even	Supply air to one or several tanks in order to bring oxygen to bacteria which must degrade the organic matter.	It’s convenient to take out the stamping under the pressure air help.
Powder Conveying Systems	**Efficient Furnace Fuel Burning**	**Disperse the smoke**	**Car washing and drying**	**Drying for printing machine**
				
Powder conveying through a pipe line has been one of the major uses for air pump	These blowers deliver higher pressure compared to centrifugal blower, making it possible to improve fuel to air mixing, leading to very effective fuel burning.	Disperse the smoke rapidly to reduce pollution	Drying up the car rapidly after washing	Air pump is widely used on ink dryingt

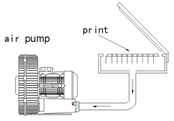
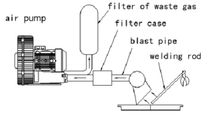
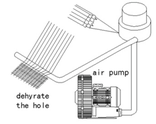
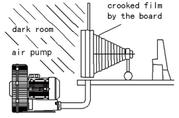
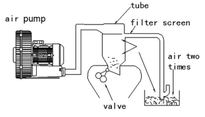
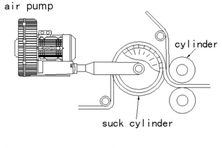
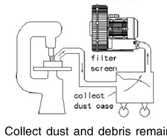
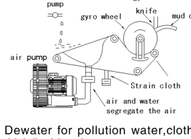
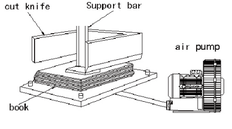
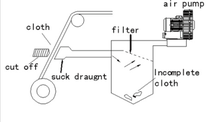
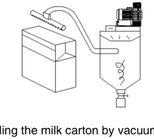
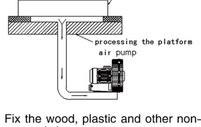
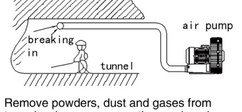
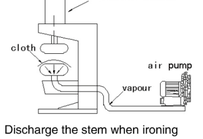
工業應用案例（吸風）

- **送風 吸塵 排氣 冷却 輸送 氣墊**

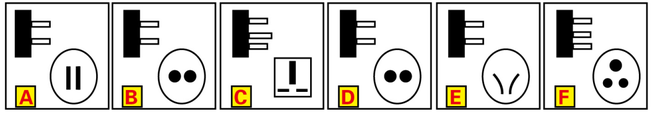
网版印刷机吸着	焊接废气吸取	织布机吸丝	照相制版	粉粒体输送
				
利用吸着压力固定，以利印刷作业	焊接时产生烟气和灰尘，可以真空方式排到它处，保障操作员健康	吸除水分及固定线头，提高品质效率	利用真空吸力来保护底片，使之平坦，适合照相制版工业	塑胶原料等粒状物体，用吹或者吸来输送
印刷吸着	**工业吸尘**	**真空脱水**	**制书本机**	**残布处理**
				
真空吸着印刷或者纸巾形成移送	工厂经常有废屑残留在机台上，可以吸抽收集	浆脱水，污染脱水，布匹脱水等	切断时之书本吸着保持	布匹切断之处理 布匹切断处理
牛乳纸盒充填机	**豆腐机械**	**加工物的保持**	**工事现场**	**烫布机**
				
牛乳盒填充之真空吸引利用	吸引大豆输送，至清洗槽洗净使用	木板、塑胶等非磁性物体之固用	隧道与狭小工事现场，产生粉尘，有毒瓦斯之局部除去	烫布时将蒸气排放出

APPLICATION EXAMPLE USE FOR VACUUM

- **Blow hoover exhaust cool transport air cushion**

Sorption in screen printer	Exhaust gas absorbing in welding	Automatic Loom Machines	Photo – engraving	Air pump for powder conveying Systems
				
The powerful sorption produced by air pump can fix printing	The smoke and dust generated during welding can be discharged to other places in vacuum mode to ensure the operator’s health	Keep threads and yarn in place during processing.	The vacuum suction force will protect film, make it flat.	Powder conveying by blowing or sucking air
Paper Transfer	**Industrial dust collection**	**Vacuum filtrating dewatering**	**Cutting book machine**	**Excess Cloth Removal**
				
Move Paper through the printing process.	Collect dust and debris remaining on or around machines.	Dewater for pollution water,cloths, thick liquid and so on	Fix the inner page when the book was cutting	Remove leftover cloth and threads after trimming.
Milk carton bottling machine	**Bean curd machine**	**Keeping processing**	**Construction/ Clean Rooms**	**Ironing machine**
				
Bottling the milk carton by vacuum	Suck the soybean and delivery to the cleaning tank	Fix the wood, plastic and other non–magnetic items	Remove powders, dust and gases from tunnels, clean rooms or other enclosed spaces	Discharge the stem when ironing

各國電壓、頻率、單相電源插頭對照表



美洲、非洲、澳洲					亞洲					歐洲				
國名（地區）	單相電壓插頭	單相電壓（V）	三相電壓（V）	頻率（Hz）	國名（地區）	單相電壓插頭	單相電壓（V）	三相電壓（V）	頻率（Hz）	國名（地區）	單相電壓插頭	單相電壓（V）	三相電壓（V）	頻率（Hz）
美國	A	120	240/480	60	韓國	A/D/E	110/200	200/220/380	60	英國	C	240	415/480	50
夏威夷	A	120	240/480	60	日本	A	100	200	50/60	愛爾蘭		220	380	50
關島、賽班	A	120	240/480	60	香港	D/F	200	220/346/380	50	法國	D	127/220	380	50
加拿大	A	120	240/480	60	中國	A/C/D/E/F	220	380	50	荷蘭	D	220	400	50
墨西哥	A	127	220	60	臺灣	A	110	220/380	60	比利時	D	127/220	380	50
巴西		127	220/380	60	菲律賓	A/C/E	277	220/400	60	盧森堡	D	120/220	380	50
智利		220	380	50	泰國	C/D	220	380	50	德國	D	220	380	50
哥倫比亞		110	220	60	新加坡	B/C/D	230	400/415/440	50	瑞士	D	220	380	50
哥斯達黎加		120	240	60	伊朗		220	380	50	奧地利	D	220	380	50
多尼加		110	220	60	以色列		230	400	50	意大利	D	127/220	380	50
秘魯		110	220	60	約旦		220	380	50	西班牙	A/D	137/220	220/380	50
厄瓜多爾		127	220	60	科威特		240	415	50	葡萄牙	D	220	380	50
摩洛哥		127	220/380	50	馬來西亞		240	400/415/440	50	丹麥	D	220	380	50
波多黎各		120	240	60	巴基斯坦		220	380/400	50	芬蘭	D	220	380	50
阿根廷		220	380	50	越南		120	208/220/380	50	瑞典	D	220	380	50
委內瑞拉		120	240	60	叙利亞		220	380	50	挪威	D	220	380	50
埃及		220	380	50	沙特阿拉伯		127	220/380/415	50/60	希臘	D	220	380	50
南非		220	380	50	孟加拉		220	380	50	波蘭	D	220	380	50
尼日利亞		220	380	50	印尼		127	220/380	50	土耳其		110	220/380	50
澳大利亞	E	240	415	50	印度		230	400	50	俄羅斯	A/D	127/220	380	50
新西蘭	E	230	400	50										

常用壓力單位換算表

單位名稱	千克力/厘米^2	兆帕	巴	千帕	毫巴	磅/英寸^2	毫米水柱	毫米汞柱	英寸汞柱	標準大氣壓	工程大氣壓	牛頓/米^2
	kg/cm^2	mpa	bar	kpa	mbar	psi ib/in^2	mmh$_2$o mmaq	mmhg torr	inhg	atm	at	帕斯卡（nm^2/）pa
kg/cm^2	1	0.098066	0.980665	98.067	980.67	14.223	10000	735.559	28.964	0.96784	1	98066.5
mpa	10.1972	1	10	1000	10000	145.04	101971	7500.61	295.354	9.8692	10	999977.1
bar	1.01972	0.1	1	100	1000	14.5038	10197.2	750.061	29.5354	0.98692	1.01972	100000
kpa	0.0102	0.001	0.01	1	10	0.145	101.97	7.50062	0.2954	0.009869	0.01	1000.25
mbar	0.00102	0.0001	0.001	0.1	1	0.0145	10.2	0.75	0.029543	0.000987	0.001	100.025
psi(ib/in^2)	0.0703	0.006895	0.06895	6.895	68.95	1	703.07	51.715	2.03537	0.06805	0.07031	6894.76
mmh$_2$o(mmaq)	0.0001	0.0000098	0.000098	0.0098	0.098	0.00142	1	0.07358	0.00289	0.000096	0.0001	9.806
mmhg(torr)	0.00136	0.000133	0.00133	0.1333	1.33	0.0193	13.5951	1	0.03936	0.00132	0.00136	133.32
inhg	0.03452	0.0034	0.034	3.385	33.85	0.491	346.02	25.4065	1	0.0334	0.3452	3385.76
atm	1.033	0.1013	1.01325	101.327	1013.17	14.695	10416.66	760	29.94	1	1.0333	101325
at	1	0.1	0.9806	100	1000	14.222	10000	735.29	2.8969	0.9676	1	98066.5
(n/m^2)pa	0.00001	0.000001	0.00001	0.001	0.01	0.000145	0.10197	0.0075	0.000295	0.0001	0.00001	1