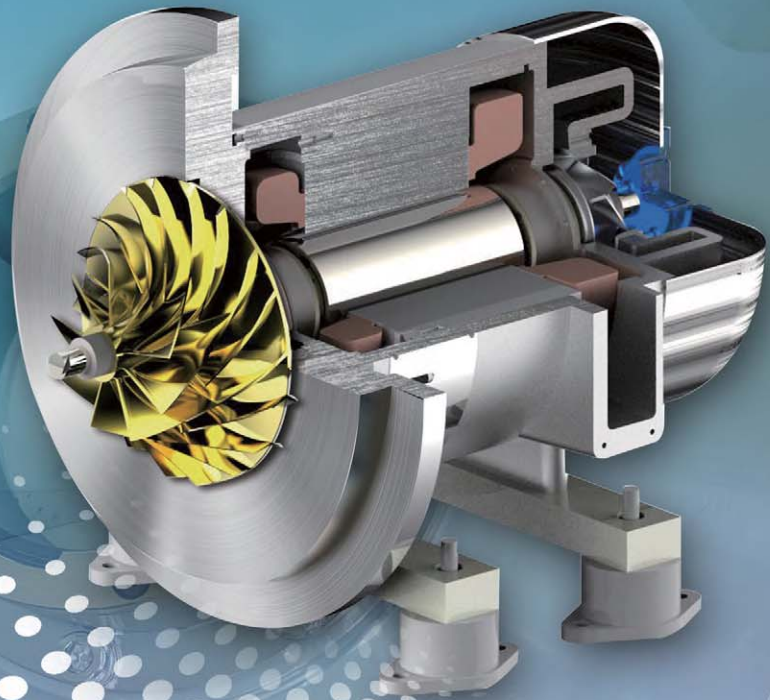


HC-Series

The Highest Efficiency Turbo Blower / Turbo Compressor
Technology for human beings-produced by honest people

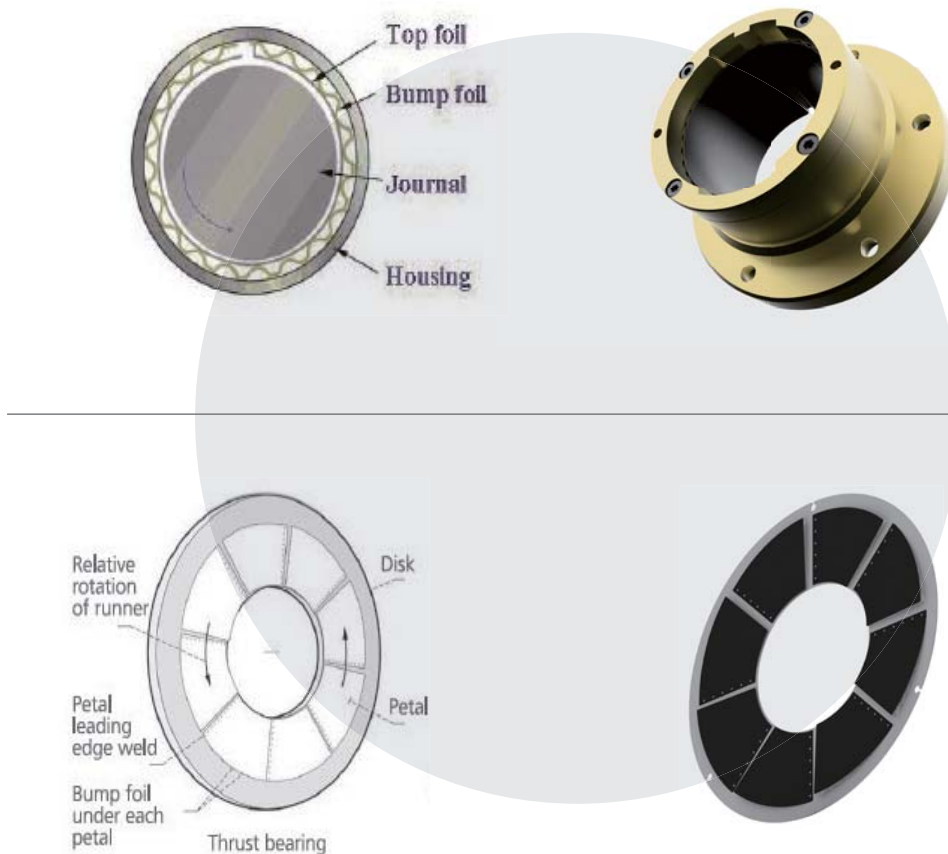
www.hicore.co.kr

KIMAX



Hi-Core
하이코어주식회사

AIR FOIL BEARING



오일을 사용하지 않고 공기를 윤활제로 사용하는 에어포일베어링으로, 유지관리 비용이 낮으며 훨씬 높은 온도에서 작동 할 수 있습니다. 그 결과, 에어 포일 베어링은 고속·고온의 극한 환경에서의 동작을 필요로 하는 고속 전동기에 대한 최적의 솔루션 입니다.

The foil bearing uses air rather than oil for lubrication. Advantages of this design includes that of flexibility and low operating cost. Air foil bearing can operate under much higher temperature than oil bearing. As a result, air foil bearing is the best solution for high speed motor which requires operation in extreme environment of high speed and high temperature.

不使用精油,以空气为润滑剂的空气温和轴承,维持管理费用较低。空气箔轴承可在比油轴承更高的温度下工作。结果,空气箔轴承需要在高速,高温的极限环境中做动作高速电动机的最佳解决方案。

TURBO BLOWER

HIGH EFFICIENCY PM MOTOR

*PM: Permanent Magnet



영구자석은 95%의 높은 효율을 가능하게합니다.
永久磁铁可实现95%的高效率



The Permanent magnet makes it possible to have even higher efficiency (>95%) over an entire operating range.

OPTIMIZED SENSORLESS VFD

초기 운전 전류는 전체부하전류의 5%로 가능하며, 96%의 높은 효율을 가집니다.

Starting current(< 5% Full load current) and provides very High Efficiency (>96%).

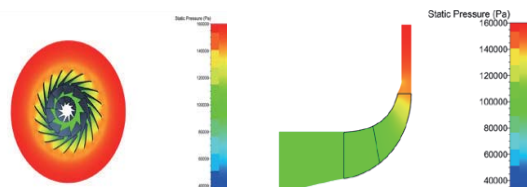
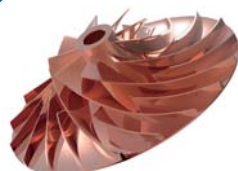
初始运转电流可达到总负荷电流的5%,并具有96%的高效率

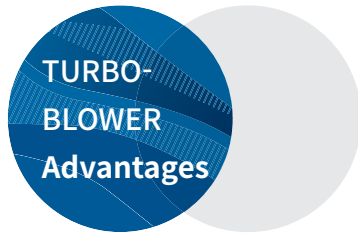
CASTED STAINLESS IMPELLER

임펠러: 알루미늄합금(Al7075-T6)재질

Impeller: aluminum alloy (Al7075-T6))

impeller:铝 合金(Al7075-T6)





HIGH EFFICIENCY

고효율 PM motor적용, 가변주파수에 의한 풍량조절
PM motor with VFD(Variable Frequency Drive)
应用高效PM和感应电动机, 通过变频控制风量

ENERGY SAVINGS

루츠블로워 대비 25~40%의 에너지 절감효과
Better than 25~40%
Compared with Existing Roots Blowers
与罗茨鼓风机相比节能25~40%

LOW NOISE

저소음 : 75~85dB
Less than 75~85 dB (at blower inlet 1.5m)
低噪音 : 75~85dB

LOW VIBRATION

저진동 : 2mm/sec이하
Under 2mm/sec
低振动 : 2毫米/秒或更低

OIL-FREE

무오일 사용으로 인하여 깨끗한 압축 공기 생산
No oil, in the system produces clean air
由于无油使用, 产生干净的压缩空气

EASY INSTALLATION

제어부가 통합된 팩키지타입으로 설치 및 제어가 용이함
Compression unit, the controller is integrated into the installation ease
控制部综合的包装类型, 易于安装与控制

COMPACT DESIGN

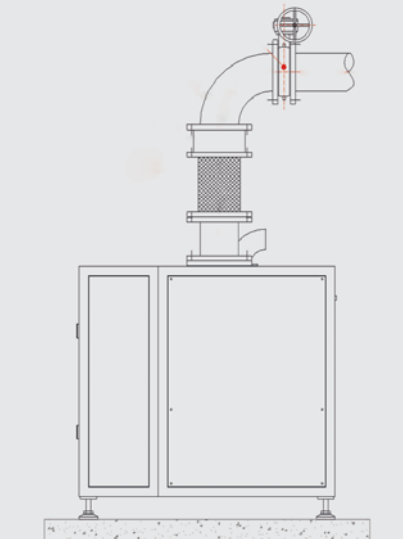


TURBO BLOWER

INSTALLATION EXAMPLES

NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	EXPANSION JOINT	STS304 or SPP, FLANGE-JIS 10K	1	
2	CHECK VALVE	DUAL CHECK VALVE	1	
3	ELBOW PIPE	STS304 or SPP	1	
4	STOP VALVE	BUTTERFLY VALVE	1	

* Note : Accessories do not supply parts(NO1~4)



FILTER

NO	DESCRIPTION	Spec	Remark
1	PRE-FILTER	85%	10 μm
2	FINAL FILTER	99%	10 μm
3	MAINTENANCE : PRE-FILTER	3~8 Weeks	
	MAINTENANCE : FINAL FILTER	5~11 Months	

MAINTENANCE

NO	SERVICE	Period	Remark
1	IMPELLER CLEANING BEARING INSPECTION	3 Years	
2	BEARING OVERHAUL	7 Years	
3	PRE FILTER	3~8 Weeks	
4	FINE FILTER	5~11 Monts	
5	Cooling fan	2~3 Years	
6	Electronic Capacitor (Capacitor Exchange)	5 Years (Full power continuous operation)	

APPLICATION

- Aeration system
 - Sewage Treatment Plant
 - Wastewater treatment plant
- Washing system
 - Water Treatment Plant Backwashing(Picture)
- Pneumatic Conveying system
 - Cement Factory
 - Power Plant
 - Food Factory
 - Chemical Factory
 - Steel Factory
 - Incineration Plant
- Process Air

유지관리를 위해 기기간 및 벽체간 이격거리 최소 1.5m간격을 유지해 주세요.

Service Space : 1.5m

为维持管理,在期间内及墙体间至少保持1.5m间隔

기기의 기초베이스의 높이는 최소 150mm이상으로 시공해주세요.

Foundation height, minimum 150mm

机器的底盘高度至少在150mm以上。

토출배관의 피팅류간 사용하는 가스켓은 비석면 가스켓을 사용하세요.

Use non-asbestos gasket.

出口排管的涂镀类间使用的气孔请使用飞石面气孔。

토출배관은 소음감소효과등을 위해 보온시공 검토

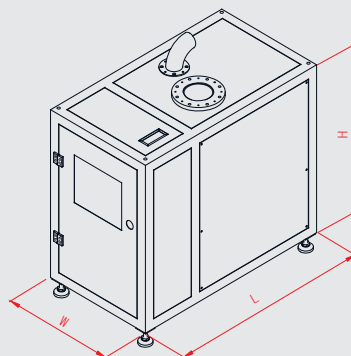
Discharge piping insulation construction review for noise prevention.

排出排管为了减少噪音,考虑保温施工



KIMAX

Hi-Core Specifications



MODEL	HC 005	HC 010	HC 020	HC 030	HC 050	HC 075	HC 100	HC 125	HC 150	HC 200	HC 250	HC 200	HC 250	HC 300	HC 400
TYPE	SINGLE											TWIN			
MOTOR POWER (KW)	3.7	7.5	15	22	37	55	75	90	110	160	187	160	200	220	300
DIS'/PRE'(KG/cm ²)	Air Flow (m3/min) : 1atm, 20°C, 65%RH, density =1.2kg/m3, Tolerance=±5%														
0.4	5	9	17		47	75	100		130			200		266	400
0.6	4	7	13	20	34	51	69	82	105	140	160		160	210	272
0.8		5	11	17	28	42	55	70	84	109	135		138	164	216
1.0				13	22	34	45		65	87	104		108	133	172
DIS' (0.6BAR/INCH)	3	3	5	5	6	8	8	10	12	12	12	12	16	16	20
WEIGHT (KG)	300	300	400	450	500	600	650	810	830	920	920	950	910	1550	2100
SIZE	W	850	850	850	850	850	950	950	980	980	980	980	1300	1300	1750
	L	700	700	700	700	700	1450	1450	1700	1700	1700	1700	2100	2100	2100
	H	1420	1420	1420	1420	1420	1450	1450	1700	1700	1700	1700	2100	2100	2100

- Standard : Intake Filter & BOV(Blow-Off Valve)
- Option: Discharge Silencer, Check Valve, Expansion Joint
- Model Designation
 - HC : HICORE Turbo Blower
 - 300: HP
 - 0.4 ~1.0: Design Pressure(kg/cm²)

* 제품사양은 성능향상을 위하여 사전에고없이 변경될 수 있음. The specifications in this document are subject to change without prior notice for product improvement.
产品规格为提升性能,无需事先预告即可变更.

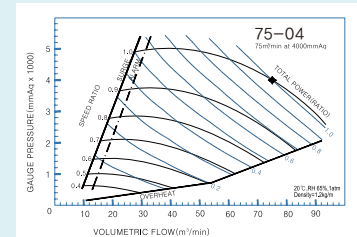
Performance Curve

HC30

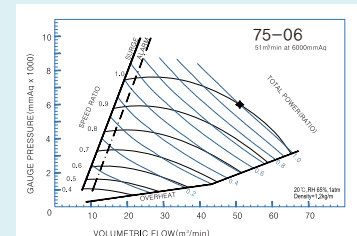
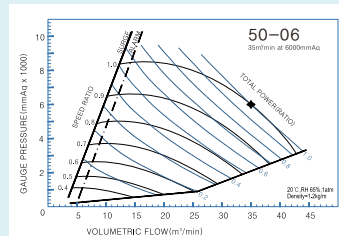
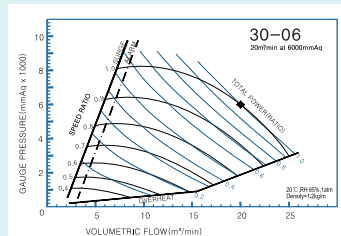
HC50

HC75

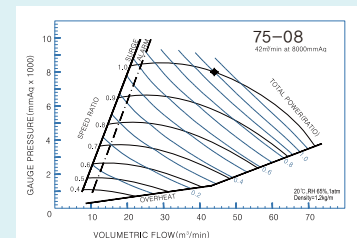
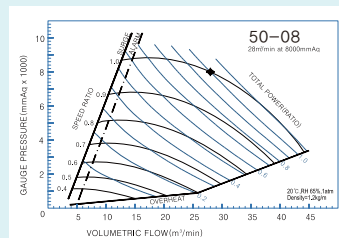
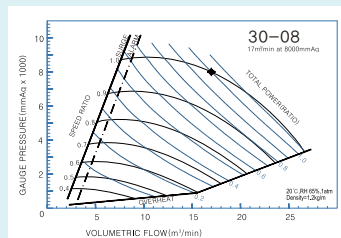
4000
mmAq



6000
mmAq



8000
mmAq



10000
mmAq

12000
mmAq

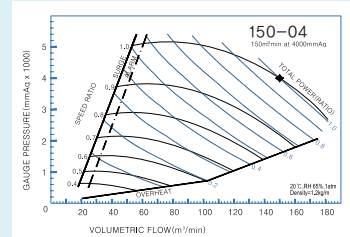
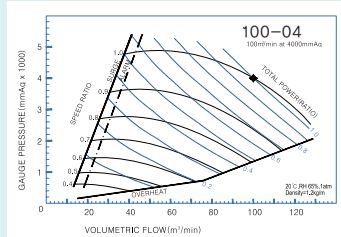
Performance Curve

HC100

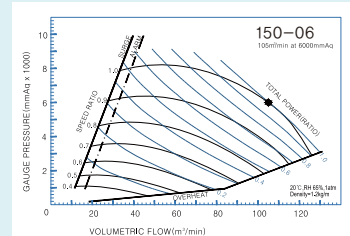
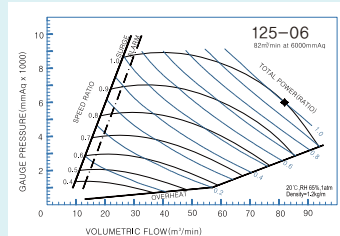
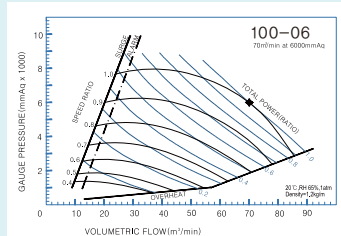
HC125

HC150

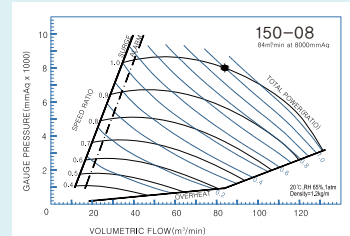
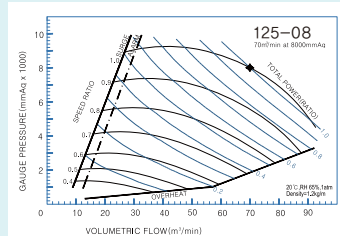
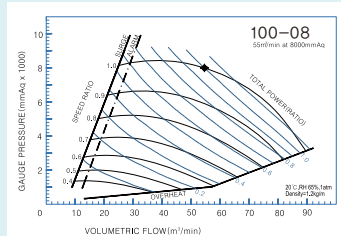
4000
mmAq



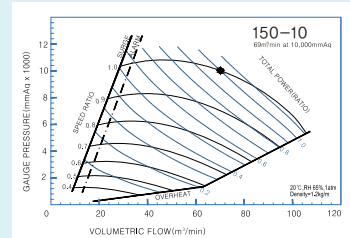
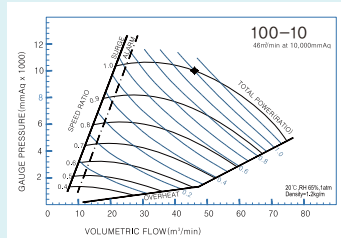
6000
mmAq



8000
mmAq



10000
mmAq



12000
mmAq

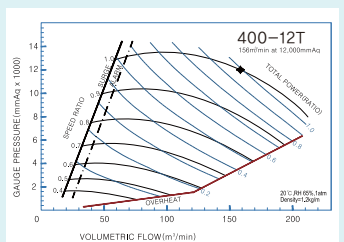
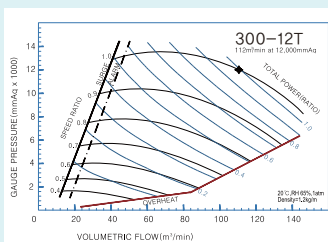
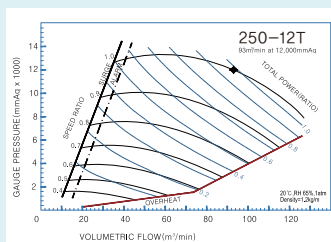
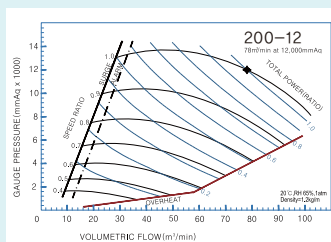
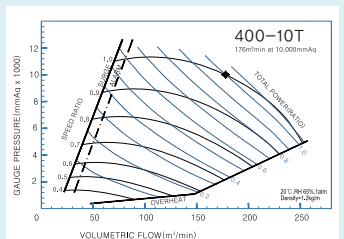
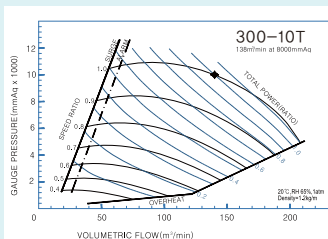
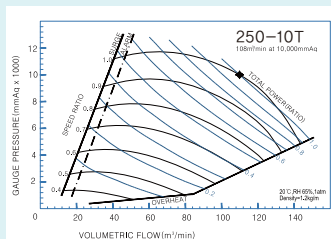
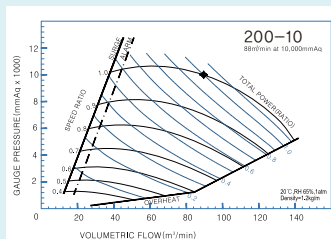
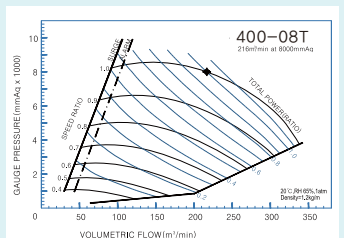
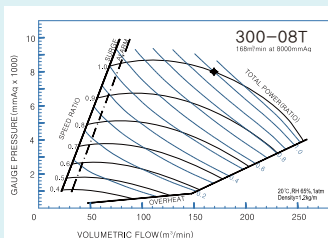
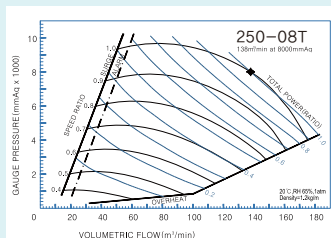
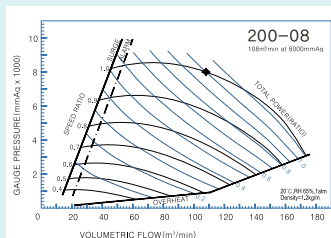
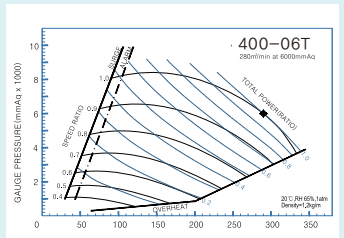
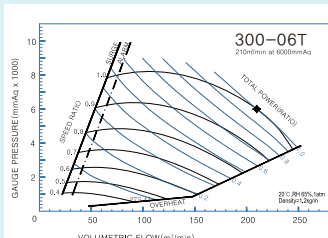
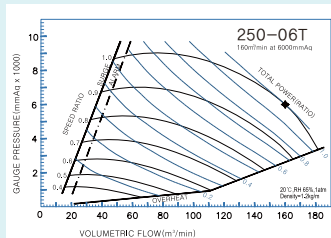
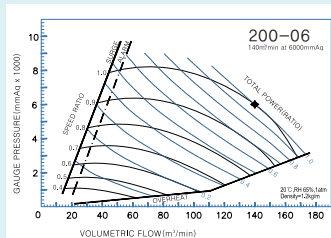
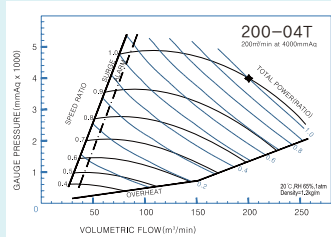


HC200

HC250

HC300

HC400





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