TOHIN

TX Series

High Efficiency
Low Noise
Environment Friendly
Oil Free
Air Bearing Turbo Blower

TOHIN VIETNAM INDUSTRY CO.,LTD.

(+84) 901 466 586 contact@tohin.vn www.tohin.vn

TOHIN TURBO

Environment Friendly High Efficiency - TOHIN standard for the Best Blower in the World.

TOHIN INDUSTRY GROUP OVERSEA FACTORY

MAIN PRODUCTS

TX Series

BK Series

BZ Series

SD Series

FD Series

HC Series

TOHIN GROUP DEVELOPMENT HISTORY

1948

- In 1948 the Tohin Industry Co.,Ltd. was officially established in Japan
- Head office at 13, Kawaraicho, Kuki shi, Saitama 346-0028, JAPAN
- President: Yasushi Hamazaki
- Area of operation: We invented and produced oil fired medium pressure instruments and air blower

1963

- In 1963 the Tohin Shoji Co.,ltd was established in Japan. (the Subsidiary of Tohin Industry)
- Head office: 2-20-7, Misaki-cho, Chiyoda-ku, Tokyo 101-0061, JAPAN
- President: Yasushi Hamazaki
- Area of operation: We distributed the products of Tohin Industry, environment products, and other related equipment

1984

In 1984 sales achieved amount 216,000 set/ year in Japan

1994

- In 1994 Tohin China was established at Jiangsu province, China with branch name: B-Tohin Co., Ltd.
- B-Tohin was engaged in the production and sales of HC blowers, Roots blowers, gear speed-up centrifugal blowers
- The B-Tohin's factory was built in the area 26000 m^2 area in Yixing Economic Development Zone

2005

In 2005 sales achieved amount 4 million sets in Japan and Number one market share in China

2015

- In 2015, Tohin Vietnam Industry Co., Ltd. was established.
- Tohin Vietnam inherited more than 60 years experience from our successful Japan business, with goal continuously improve the quality of our products, continuous technological innovations, innovative research and development research with ongoing efforts to create quality products

2016

Establish Tohin Korea. Supply of eco-friendly products – Turbo Blower

ABOUT US

Tohin Group

Tohin group was establish in 1948 in Japan. Throughout our history developing, we have completed the role of trustful manufacturer professionally. Fortunately, we have been taken big belief and appreciation from a large of customers to get results nowadays. By the way, I would like to send to you my profound thanks. At the beginning of establishing the group, Japanese territory was short of petroleum. At that time, we invented oil fired middle pressure instrument. From that, we gave a hand for agriculture and other industries impressively. After that, we successfully invented Rotary Vane Blower, especially applied in Waste water treatment popularly, totally more than 4 million machines. As the result of this, we devoted in protecting water resource in Japan.

Together with target “Preserve Friendly Environment” in recent years, we have focused on improving quality of vacuum cleaner, garbage receiver… We will continue to be conscious of our roles to attempt in researching, developing for improving the quality of human life. Together with continuously upgrade product quality, we are leading in applying newest achievements of technical science to solve environmental problems. We look forward to your continued support as continue to develop quality products in the blower market.

Tohin Vietnam Industry

Located in High Tech Park – Thu Duc City - HCM City. Tohin Vietnam Industry is proud of to be one of the Smart Factory is equipped with technology equipment, the most modern production techniques and assembly processes.

By further promoting our traditions and 75 years of accumulated experience in Japan, at Tohin Vietnam we are committed to providing customers with the highest quality products, widely used in various industries such as water treatment, cement, manufacturing, chemical, electricity, petroleum, steel, metallurgy and mining industries, and food convey lines. Our products include the Rotary Vane Blower, Roots Blower, Single-stage and Multi-stage Centrifugal Blowers and Turbo Blowers, all manufactured according to Japanese quality and international standards. We ensure our commitment to implement R&D across our product range.

Furthermore, applying the most modern technology of the aero space industry, we’ve researched and created energy saving and environmentally friendly Turbo Blowers for WWTPs and industry.

Tohin Vietnam’s vision of continuous improvement and customer satisfaction is to of mind for every associate at every level of business. Whilst we honor our predecessors in the support of our many customers both at home and abroad and to our domestic machinery industry.

CERTIFICATES

CE Certificate

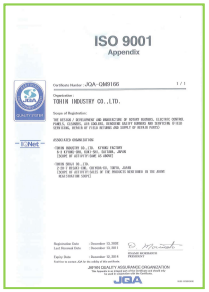
BV Certificate

ISO-14001

ISO-14001

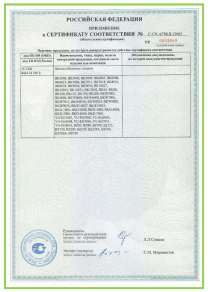
ISO-9001

ISO-9001



ISO-9001

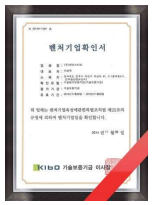
ISO-9001



GOST Certificate

GOST Certificate

TOHIN Group is manufacturing the turbo blower and the vacuum pump through the high speed rotor technology. We will provide the economic benefit for the customer and comfortable working environment for operator through the customer-oriented product design.


Venture


ISO9001


ISO14001


CE certificate

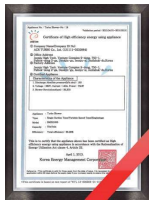

Patent


Patent


Patent

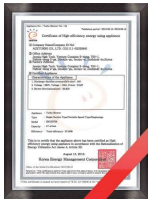

S/W registration


S/W registration


High Efficiency certificate


High Efficiency certificate


High Efficiency certificate

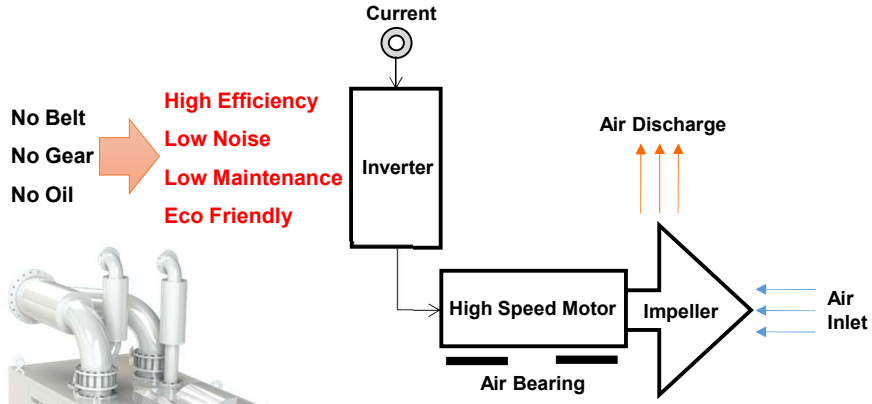

High Efficiency certificate


High Efficiency certificate


High Efficiency certificate

TURBO BLOWER

- High speed motor direct-coupled centrifugal
- High pressure blower with air bearing



Model
[350~700HP]

Model
[10~300HP]

APPLICATION

Sewage Treatment Plant
for aeration

Chemical Factory
for air transfer

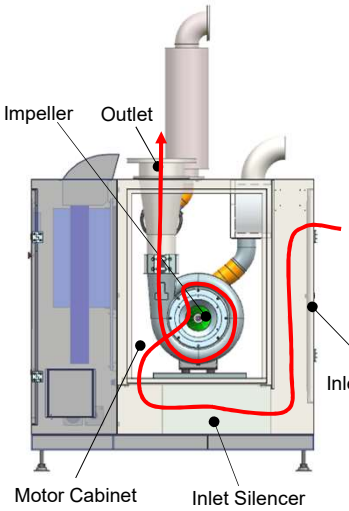
Cement Factory
for air transfer

Power Plant
for supply oxygen




INNOVATIVE TECHNOLOGY

COMPRESSION AIR



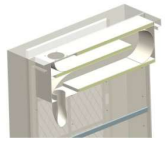
TOUCH SCREEN

- Input the driving signals
- Monitoring the operating condition
- Change the setup value

PLC

- Transfer of driving signals to inverter
- Transfer of operating condition to TOUCH SCREEN
- Data communication with outside

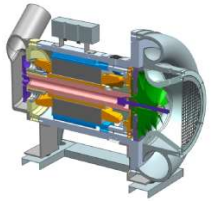
COOLING AIR SILENCER



- Double silencer (below 85dBA)

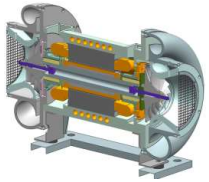
AIR - END

Air Cooling



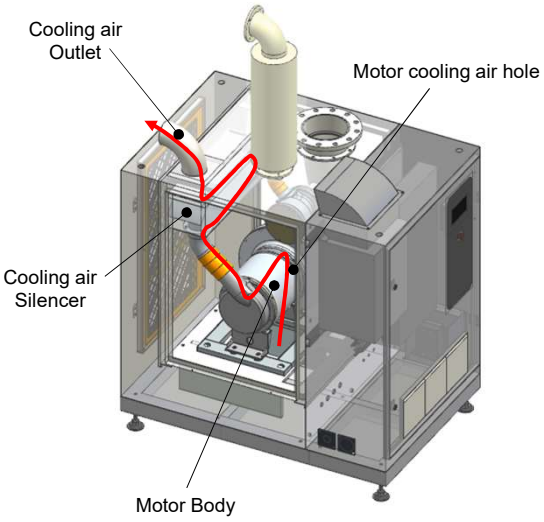
- Cool the stator by cooling fan
- Cool the rotor by air gap fan

Closed Water Cooling



- Cool the stator by coolant
- Cool the rotor by cooling fan
- Coolant jacket assembled motor body

COOLING AIR



INVERTER

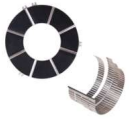
- Change the rotating speed of motor through changing the frequency
- Change the flow rate range

CORE COMPONENTS

IMPELLER / ROTOR

- Compress air
- Direct-coupled impeller with motor
- Cooling fan assembled in another side

AIR FOIL BEARING

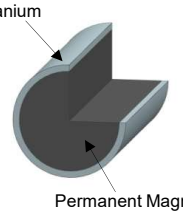


- Using air compressed by wedge effect
- Bump type
- Reliability test of 30,000 ON/OFF

STATOR

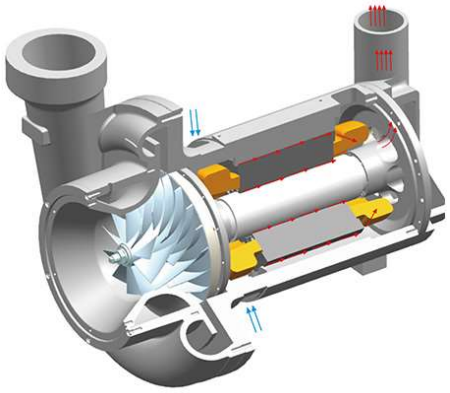
- Assembled by cooling fan
- Insulation grade: H-CLASS

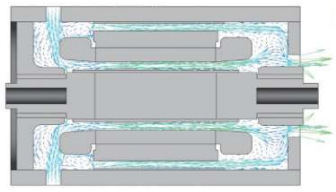
HIGH SPEED MOTOR

SECTION	PMSM [Permanent Magnet Synchronous Motor]
Structure	
Merit	㉮ High efficiency (94~95%) ㉮ Smaller and lighter shaft ㉮ Energy saving ㉮ Long life
Demerit	㉮ Expensive because of magnet ㉮ Risk from dust-rich environment

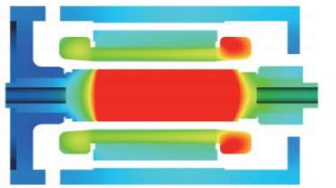
MOTOR COOLING WAY

Effective and original cooling way





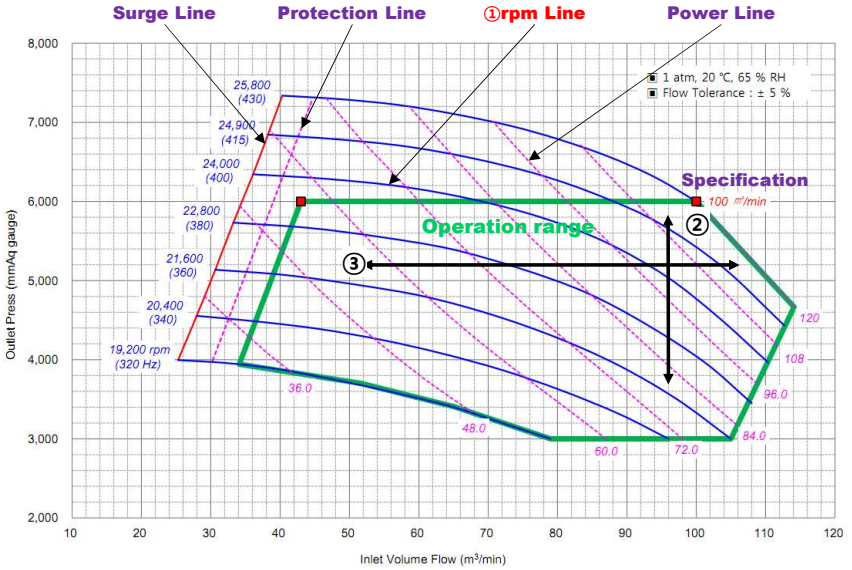
< Temperature distribution >



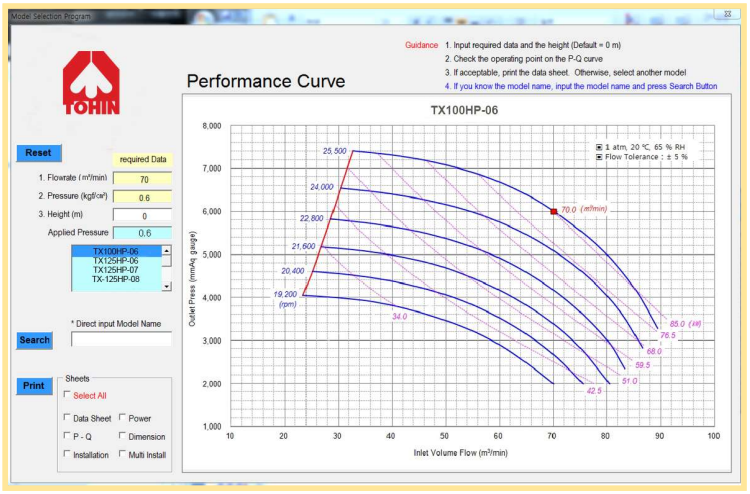
< Flow distribution >

CONTROL WAY

Wide operating range and various operation modes



MODEL SELECTION



PERFORMANCE PARAMETER

Operating conditions: 1.03 kgf/cm^2, 20°C, 65%RH

Model	Outlet Pressure (kgf/cm^2)	Inlet Flow Rate (m^3/min)	Outlet Diameter (A)	Dimension (mm)			Weight (Kg)	Cooling
				W	D	H		
TX20-04	0.4	18.5	150	800	1120	1300	340	AIR
TX20-05	0.5	16.0						
TX20-06	0.6	14.0						
TX30-04	0.4	28.0	150	800	1120	1300	340	
TX30-05	0.5	24.0						
TX30-06	0.6	21.0						
TX50-04	0.4	47.0	200	900	1350	1500	540	
TX50-05	0.5	41.0						
TX50-06	0.6	35.0						
TX50-07	0.7	29.0						
TX50-08	0.8	27.0						
TX50-09	0.9	23.0						
TX50-10	1.0	22.0						
TX75-04	0.4	62.0	200	920	1350	1500	540	
TX75-05	0.5	56.0						
TX75-06	0.6	50.0						
TX75-07	0.7	44.0						
TX75-08	0.8	40.0						
TX75-09	0.9	34.0						
TX75-10	1.0	32.0						
TX100-04	0.4	86.0	250	1020	1600	1575	742	
TX100-05	0.5	78.0						
TX100-06	0.6	70.0						
TX100-07	0.7	61.0						
TX100-08	0.8	54.0						
TX100-09	0.9	47.0						
TX100-10	1.0	45.0						
TX125-04	0.4	106.0	250	1020	1600	1575	762	
TX125-05	0.5	96.0						
TX125-06	0.6	86.0						
TX125-07	0.7	74.0						
TX125-08	0.8	66.0						
TX125-09	0.9	59.0						
TX125-10	1.0	56.0						
TX150-04	0.4	122.0	250	1020	1600	1575	762	
TX150-05	0.5	112.0						
TX150-06	0.6	102.0						
TX150-07	0.7	88.0						
TX150-08	0.8	80.0						
TX150-09	0.9	70.0						
TX150-10	1.0	67.0						

Model	Outlet Pressure (kgf/cm^2)	Inlet Flow Rate (m^3/min)	Outlet Diameter (A)	Dimension (mm)			Weight (Kg)	Cooling
				W	D	H		
TX200-04	0.4	162.0	350	1300	1950	1900	1252	AIR OR WATER
TX200-05	0.5	148.0						
TX200-06	0.6	135.0						
TX200-07	0.7	115.0						
TX200-08	0.8	105.0						
TX200-09	0.9	90.0						
TX200-10	1.0	85.0						
TX250-04	0.4	192.0	350	1300	1950	1900	1347	
TX250-05	0.5	212.0						
TX250-06	0.6	172.0						
TX250-07	0.7	146.0						
TX250-08	0.8	135.0						
TX250-09	0.9	118.0						
TX250-10	1.0	111.0						
TX300-04	0.4	245.0	350	1300	1950	1900	1347	
TX300-05	0.5	223.0						
TX300-06	0.6	202.0						
TX300-07	0.7	180.0						
TX300-08	0.8	158.0						
TX300-09	0.9	138.0						
TX300-10	1.0	130.0						
TX400-04	0.4	318.0	500	1830	3500	2000	2310	
TX400-05	0.5	292.0						
TX400-06	0.6	266.0						
TX400-07	0.7	224.0						
TX400-08	0.8	210.0						
TX400-09	0.9	180.0						
TX400-10	1.0	170.0						
TX500-04	0.4	385.0	500	1830	3500	2000	2530	
TX500-05	0.5	355.0						
TX500-06	0.6	325.0						
TX500-07	0.7	292.0						
TX500-08	0.8	268.0						
TX500-09	0.9	231.0						
TX500-10	1.0	218.0						
TX600-04	0.4	475.0	500	1830	3500	2000	2530	
TX600-05	0.5	433.0						
TX600-06	0.6	396.0						
TX600-07	0.7	353.0						
TX600-08	0.8	325.0						
TX600-09	0.9	271.0						
TX600-10	1.0	256.0						

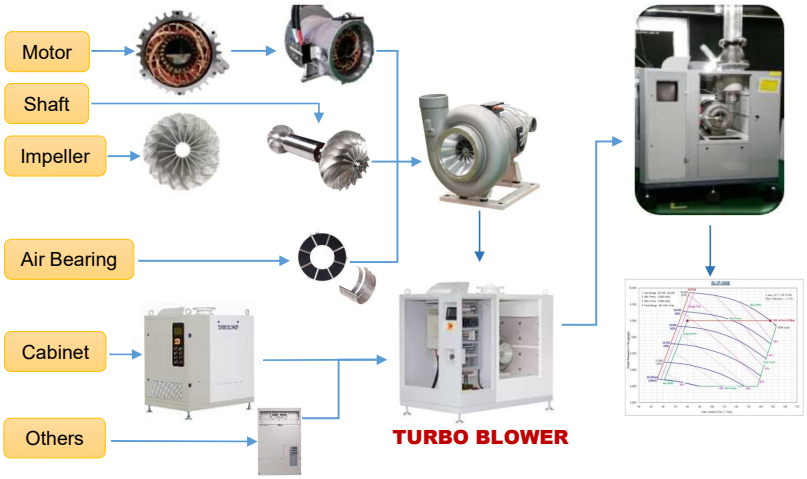
Special specification on request

PRODUCTION

PRODUCTION PROCESS

Except electric parts such as inverter and PLC, all parts including high speed motor and air foil bearing are designed and manufactured by TOHIN INDUSTRY

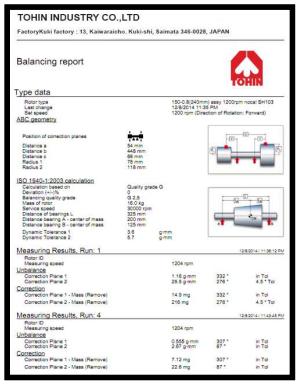
Design → **Machining Purchasing** → **Assembly** → **Quality Test** → **After Service**



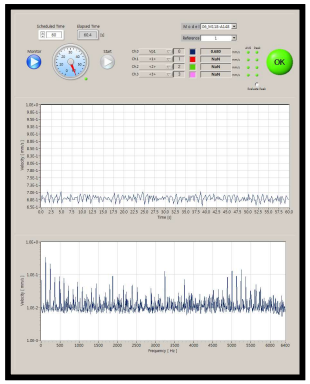
QUALITY MANAGEMENT

Dynamic balancing grade is 2.5G, Vibration is below 1.0㎜/s, Noise is below 85dBA

[Balancing]

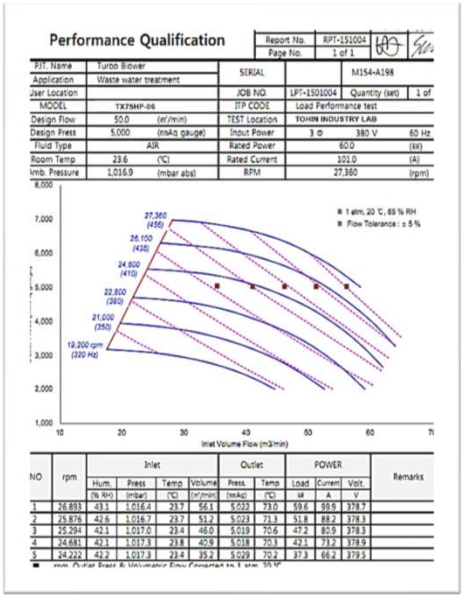


[Vibration]

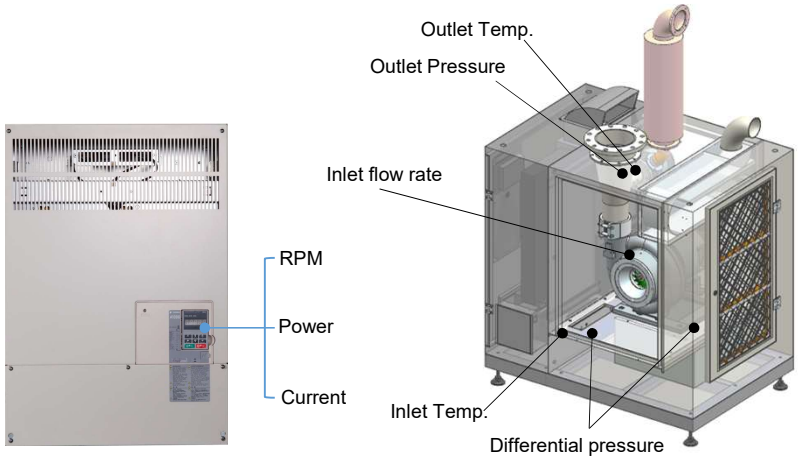


PERFORMANCE QUALIFICATION

Measure the 5 points at the specific pressure.

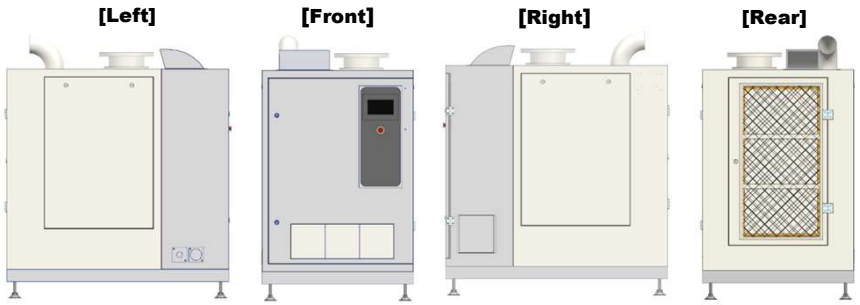


MEASURING POINTS



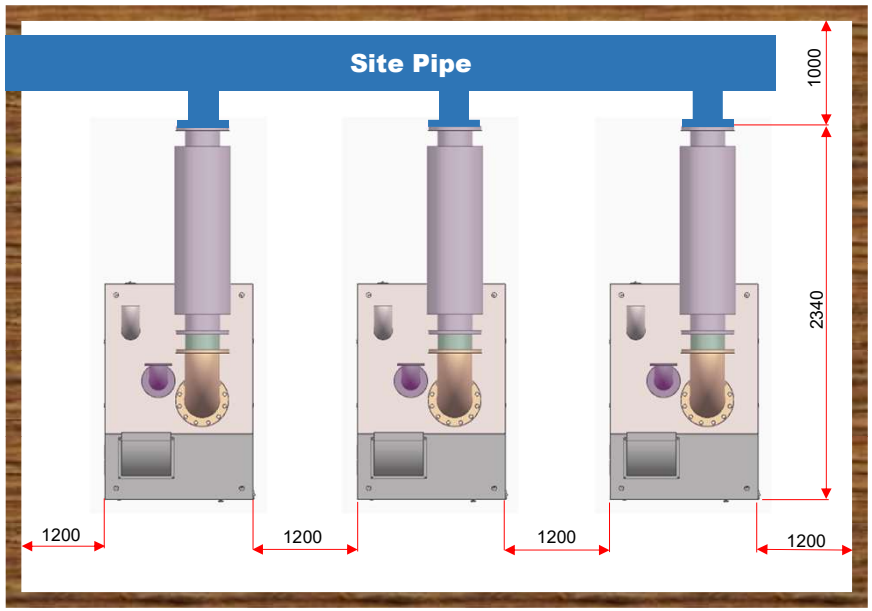
INSTALLATION

PACKING



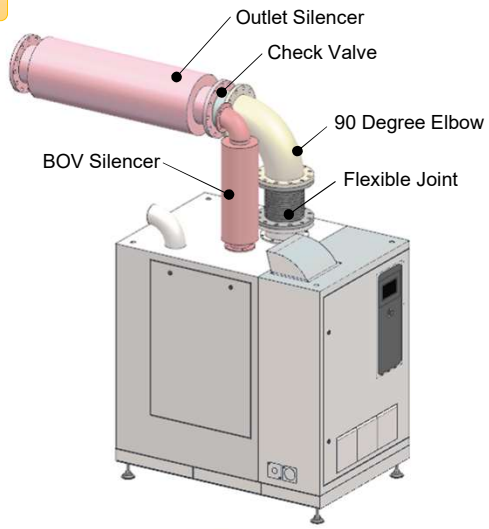
PARRALEL

Need 1.2m from wall and other blowers

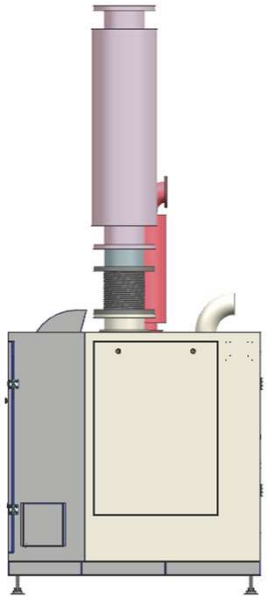


TWO WAY

Rear Discharge



Upper Discharge

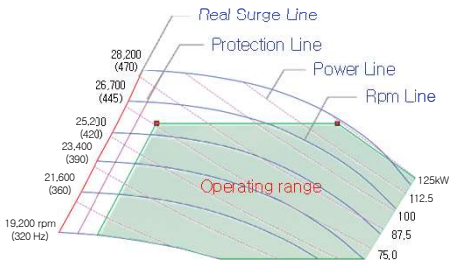


USER FRIENDLY

EASE-TO-USE TOUCH SCREEN

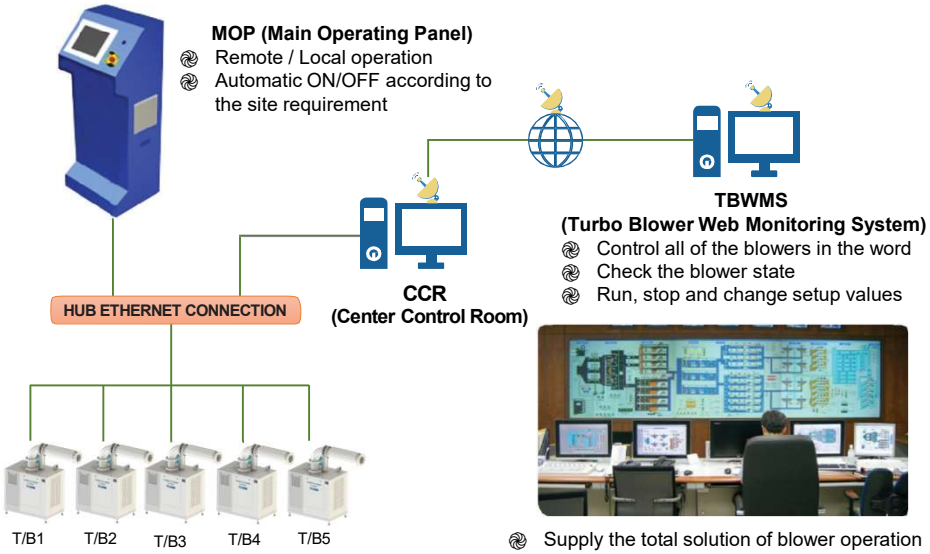
- Adopt the 32-bit color LCD
- Convenient network setting
- 5 langagues interface include Vietnamese

WIDE OPERATING RANGE



- Supply active control suitable for the site
- Supply variable operating modes

INTEGRATED MONITORING SYSTEM



- Supply the total solution of blower operation

EASY MAINTENANCE

- **CHANGE THE INLET FILTER (recommend after machine stop operation)**

Open Door | Change filter | After changing

- **PERIODICAL INSPECTION : One time every 3 years**

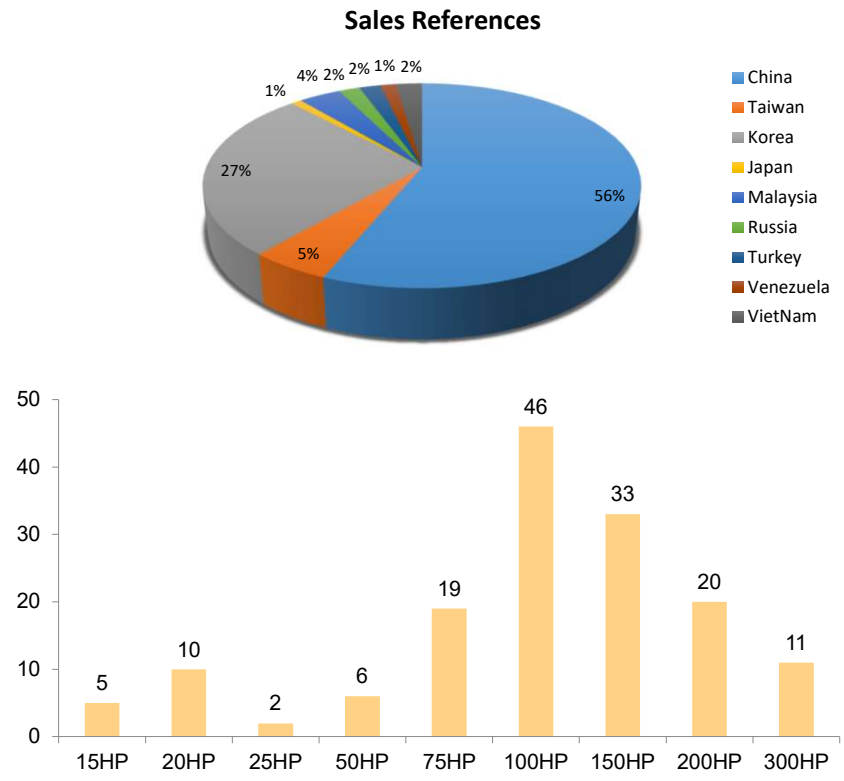
❖ Clean product and change electric supplies
❖ Check AIR-END components
❖ Check the balance of rotating parts
❖ Check the drives and controllers

INSTALLATION REFERENCE

- **VARIABLE APPLICATION IN THE WORLD**

SALES STATISTICS

Country	2013	2014	2015	2016	Total	(%)
China	29	60	14	19	122	56.5
Taiwan	6	5			11	5.1
Korea	1	13	34	10	58	26.9
Japan				2	2	0.9
Malaysia		8			8	3.7
Russia			4		4	1.9
Turkey		4			4	1.9
Venezuela			3		3	1.4
Vietnam				5	5	2.3



LIST OF SALES STATISTICS

Serial No.	Model Name	Specifications				Release Date	User Location
		Hp	kW	mmAq	m^3/min		
M0	SM2S1006	100	80	6000	70	2013/01/08	KOREA
M1	SM2S1008	100	85	8000	56	2013/03/14	CHINA
M2	SM2S1008	100	85	8000	56	2013/03/20	CHINA
M3	SM2S1008	100	85	8000	56	2013/03/20	CHINA
M4	SM2S1008	100	80	8000	56	2013/03/20	CHINA
M5	SM2S1006	100	83	8000	54	2013/07/16	CHINA
M6	SM2S1006	100	83	8000	54	2013/07/16	CHINA
M7	SM2S1006	100	83	8000	54	2013/07/16	CHINA
M8	SM2S1008	100	83	8000	56	2013/06/18	CHINA
M9	SM2S1008	100	76	8500	58	2013/05/08	TAIWAN
M10	SM2S1008	100	76	8500	58	2013/05/08	TAIWAN
M11	SM2S1008	100	76	8500	58	2013/06/18	TAIWAN
M12	SM2S1006	100	75	6000	70	2013/09/12	CHINA
M13	SM2S1506	150	112.5	4500	110	2013/07/03	TAIWAN
M14	SM2S1506	150	112.5	4500	110	2013/07/03	TAIWAN
M15	SM2S1506	150	112.5	4500	110	2013/07/03	TAIWAN
M16	SM2S1501	150	112.5	10000	58.8	2013/07/16	CHINA
M17	SM2S1501	150	112.5	10000	58.8	2013/07/16	CHINA
M18	SM2S1501	150	112.5	10000	58.8	2013/07/16	CHINA
M19	SM2S1501	150	112.5	10000	58.8	2013/07/16	CHINA
M20	SM2S1501	150	112.5	10000	58.8	2015/07/25	RUSSIA
M21	SM2S1501	150	112.5	10000	58.8	2015/07/25	RUSSIA
M22	SM2S1501	150	112.5	10000	58.8	2015/07/25	RUSSIA
M23	SM2S1501	150	112.5	10000	58.8	2015/07/25	RUSSIA
M24	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M25	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M26	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M27	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M28	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M29	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M30	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M31	SM2S1006	100	75	6000	70	2014/08/16	MALAYSIA
M32	SM2S1501	150	112.5	10000	69	2013/07/23	CHINA
M33	SM2S1501	150	112.5	10000	69	2013/07/23	CHINA
M34	SM2S1501	150	112.5	10000	69	2013/07/23	CHINA
M35	SM2S1006	100	75	6000	70	2013/09/12	CHINA
M36	SM2S1006	100	75	6000	70	2013/09/12	CHINA
M37	SL1P2006	200	160	6000	130	2013/10/04	CHINA
M38	SM2S1006	100	75	6000	65	2013/11/07	CHINA
M39	SM2S1006	100	75	6000	65	2013/11/07	CHINA
M40	SM2S1006	100	75	6000	65	2013/11/07	CHINA
M41	SM2S1008	100	83	8000	54	2014/01/28	CHINA
M42	SM1S0756	75	55	4200	40	2013/11/07	CHINA
M43	SM1S0756	75	55	4200	40	2013/11/07	CHINA
M44	SM1S0756	75	55	4200	40	2013/11/07	CHINA
M45	SL1P3001	300	240	10000	111.4	2013/12/21	CHINA
M46	SL1P3001	300	240	10000	111.4	2013/12/21	CHINA
M47	SL1P3001	300	240	10000	111.4	2013/12/21	CHINA
M48	SL1P3001	300	240	10000	111.4	2013/12/21	CHINA
M49	SM2S1008	100	50	8000	41	2014/02/04	CHINA
M50	SM2S1008	100	50	8000	41	2014/02/04	CHINA
M51	SM2S1008	100	75	8000	54	2014/02/04	CHINA
M52	SM2S1008	100	75	8000	54	2014/02/04	CHINA
M53	SM2S1008	100	75	8000	54	2014/02/04	CHINA
M54	SM2S1008	100	75	8000	54	2014/02/04	CHINA
M55	SM2S1508	150	112.5	7000	70	2014/02/18	CHINA
M56	SM2S1508	150	112.5	7000	70	2014/02/18	CHINA
M57	SM2S1508	150	112.5	7000	70	2014/02/18	CHINA
M58	SM2S1008	100	83	7000	58	2014/05/30	CHINA
M59	SM2S1008	100	83	7000	58	2014/05/30	CHINA
M60	SM2S0758	75	55	7000	44	2014/05/30	CHINA
M61	SM2S1001	100	75	10000	47	2014/04/16	CHINA
M62	SM2S1501	150	112.5	10000	69	2014/04/16	CHINA
M63	SM1S0758	75	56	7000	33	2014/06/26	CHINA
M64	SM1S0758	75	56	7000	33	2014/06/26	CHINA
M65	SM2S1508	150	115	7000	93	2014/07/15	CHINA
M66	SM2S1508	150	115	7000	93	2014/07/15	CHINA
M67	SL1P2008	200	150	8000	108	2014/07/15	CHINA
M68	SL1P2008	200	150	8000	108	2014/07/15	CHINA
M69	SL1P2008	200	150	8000	108	2014/07/15	CHINA
M70	SL1P2008	200	150	8000	108	2014/07/15	CHINA

Serial No.	Model Name	Specifications				Release Date	User Location
		Hp	kW	mmAq	m^3/min		
M71	SM2S1008	100	83	7000	58	2014/08/15	TURKEY
M72	SM2S1008	100	83	7000	58	2014/08/15	TURKEY
M73	SM2S1008	100	83	7000	58	2014/08/15	TURKEY
M74	SM2S1008	100	83	7000	58	2014/08/15	TURKEY
M75	SL1P2508	250	187.5	10000	100	2014/07/07	KOREA
M76	SL1P2508	250	187.5	10000	100	2014/07/07	KOREA
M77	SL1P2508	250	187.5	10000	100	2014/07/07	KOREA
M78	SS1S0156	15	11	4500	9	2014/08/13	KOREA
M79	SS1S0156	15	11	4500	9	2014/08/13	KOREA
M80	SS1S0156	15	11	4500	9	2014/08/13	KOREA
M81	SM1S0756	75	60	6000	50	2014/07/24	TAIWAN
M82	SM1S0756	75	60	6000	50	2014/07/24	TAIWAN
M83	SL1P2006	200	150	6000	110	2014/08/05	KOREA
M84	SM2S1008	100	75	7500	50	2014/08/14	CHINA
M85	SM2S1008	100	75	7500	50	2014/08/14	CHINA
M86	SM2S1008	100	75	7500	50	2014/08/14	CHINA
M87	SM2S1006	100	75	5000	63	2014/08/26	KOREA
M88	SM2S1006	100	75	5000	63	2014/08/26	KOREA
M89	SM2S1008	100	75	7000	48	2014/08/27	CHINA
M90	SM2S1008	100	75	7000	48	2014/08/27	CHINA
M91	SM2S1008	100	75	7000	48	2014/08/27	CHINA
M92	SM2S1008	100	75	7000	48	2014/08/27	CHINA
M93	SM2S1501	150	112.5	8200	65	2014/09/04	TAIWAN
M94	SM2S1501	150	112.5	8200	65	2014/09/04	TAIWAN
M95	SM2S1501	150	112.5	8200	65	2014/09/04	TAIWAN
M96	SM2S1508	150	112.5	7000	80	2014/09/18	CHINA
M97	SM2S1508	150	112.5	7000	80	2014/09/18	CHINA
M98	SM2S1508	150	112.5	7000	80	2014/09/18	CHINA
M99	SS2S0156	15	11	5800	5.6	2014/09/25	KOREA
M100	SS2S0156	15	11	5800	5.6	2014/09/25	KOREA
M101	SM2S1006	100	75	6000	70	2014/09/22	CHINA
M102	SL1P30006	300	215	5390	195	2014/11/18	CHINA
M103	SL1P30006	300	215	5390	195	2014/11/18	CHINA
M104	SL1P30007	300	240	6860	175	2014/12/29	CHINA
M105	SL1P30007	300	240	6860	175	2014/12/29	CHINA
M106	SL1P30007	300	240	6860	175	2014/12/29	CHINA
M107	SL1P30007	300	240	6860	175	2014/12/29	CHINA
M108	SM2S15008	150	112.5	6000	80	2014/12/12	CHINA
M109	SM2S15008	150	112.5	6000	80	2014/12/12	CHINA
M110	SM2S15008	150	112.5	8000	80	2014/12/12	CHINA
M111	SM2S15008	150	112.5	8000	80	2014/12/12	CHINA
M112	SM2S15008	150	112.5	8000	80	2014/12/12	CHINA
M113	SM1S075-0.8	75	55	8000	30	2014/12/12	CHINA
M114	SM1S075-0.8	75	55	8000	30	2014/12/12	CHINA
M115	SM1S075-0.8	75	55	8000	30	2014/12/12	CHINA
M116	SM2S100-1.2	100	75	12000	47	2014/12/18	CHINA
M117	SL1P200-0.8	200	150	8000	108	2014/11/18	CHINA
M118	SL1P200-0.8	200	150	8000	108	2014/11/18	CHINA
M119	SM2S150-0.8	150	110	8000	82	2014/11/18	CHINA
M120	SM2S150-0.8	150	110	8000	82	2014/11/18	CHINA
M121	SM2S100-0.8	100	75	8000	54	2014/11/18	CHINA
M122	SM1S075-0.8	75	55	8000	41	2014/11/18	CHINA
M123	SM1S075-0.8	75	55	8000	41	2014/11/18	CHINA
M124	SM2S100-1.0	100	75	10000	45	2014/12/05	CHINA
M125	SL1P300-0.8	300	240	7900	150	2014/12/29	CHINA
M126	SL1P200-0.6	200	160	6000	120	2015/01/12	CHINA
M127	SL1P200-0.6	200	160	6000	120	2015/01/12	CHINA
M128	SL1P200-0.6	200	160	6000	120	2015/01/12	CHINA
M129	SL1P200-0.6	200	160	6000	120	2015/01/12	CHINA
M130	SM2S150-0.6	150	110	6000	91	2014/12/05	CHINA
M131	SM2S150-0.6	150	110	6000	91	2015/01/12	CHINA
M132	SM2S150-0.6	150	110	6000	91	2015/01/12	CHINA
M133	SS2S025-0.6	25	18.7	4200	18.8	2014/12/22	KOREA
M134	SS2S025-0.6	25	18.7	4200	18.8	2014/12/22	KOREA
M135	SL1P200-0.6	200	150	6000	131	2014/12/26	CHINA
M136	SS2S020-0.6	20	15	5000	11.3	2015/01/19	KOREA
M137	SS2S020-0.6	20	15	5000	11.3	2015/01/19	KOREA
M138	SS2S020-0.6	20	15	5000	11.3	2015/01/19	KOREA
M139	SS2S020-0.6	20	15	5000	11.3	2015/01/19	KOREA
M140	SS2S020-0.6	20	15	5000	11.3	2015/01/19	KOREA
M141	SS2S020-0.6	20	15	5000	11.3	2015/01/19	KOREA
M142	SS2S020-0.6	20	15	5500	9.6	2015/04/29	KOREA
M143	SS2S020-0.6	20	15	5500	9.6	2015/04/29	KOREA

Serial No.	Model Name	Specifications				Release Date	User Location
		Hp	kW	mmAq	m^3/min		
M144	SS2S020-0.6	20	15	5500	9.6	2015/04/29	KOREA
M145	SM1S075-0.6	75	45.4	4500	45.3	2015/06/02	KOREA
M146	SM1S075-0.6	75	45.4	4500	45.3	2015/06/02	KOREA
M147	SM1S075-0.8	75	75	6000	70	2015/05/20	CHINA
M148	SS2S020-0.6	20	15	6000	14	2015/05/26	KOREA
M149	SM1S050-0.6	50	38	6000	40	2015/05/26	KOREA
M150	SM1S050-0.6	50	37.5	6000	38	2015/05/18	KOREA
M151	SM1S050-0.6	50	37.5	6000	38	2015/05/18	KOREA
M152	SM2S100-0.6	100	75	6000	70	2015/06/05	CHINA
M153	SM2S100-0.6	100	75	6000	70	2015/06/05	CHINA
M154	SM2S100-0.6	100	75	6000	70	2015/06/05	CHINA
M155	SM2S100-0.6	100	75	6000	70	2015/06/15	KOREA
M156	SM2S100-0.6	100	75	6000	70	2015/06/15	KOREA
M157	SL1P200-0.6	200	150	6000	131	2015/06/30	CHINA
M158	SM1S075-0.6	75	55	6000	47	2015/05/19	KOREA
M159	SM1S050-0.6	50	39.4	5000	65.7	2015/07/20	KOREA
M160	SM1S050-0.6	50	39.4	5000	65.7	2015/07/20	KOREA
M161	SM1S050-0.6	50	39.4	5000	65.7	2015/07/20	KOREA
M162	SM2S150-0.6	150	120	6000	100	2015/08/07	KOREA
M163	SL1P200-0.8	200	160	7000	113	2015/09/23	CHINA
M164	SL1P200-0.8	200	160	7000	113	2015/09/23	CHINA
M165	SL1P200-0.8	200	160	7000	113	2015/09/23	CHINA
M166	SM2S100-08	100	100	8000	52	2015/10/21	VENEZUELA
M167	SM2S100-08	100	100	8000	52	2015/10/21	VENEZUELA
M168	SM2S100-08	100	100	8000	52	2015/10/21	VENEZUELA
M169	SM1S075-06	75	56	6000	48	2015/10/08	KOREA
M170	SM1S075-06	75	56	6000	48	2015/11/25	KOREA
M171	SM1S075-06	75	56	6000	48	2015/11/14	KOREA
M172	SM1S075-06	75	56	5000	50	2015/11/06	KOREA
M173	SS1S030-06	30	30	3000	30	2015/12/16	KOREA
M174	SS1S030-06	30	30	3000	30	2015/12/16	KOREA
M175	SM1S075-08	75	75	7000	30	2015/12/22	KOREA
M176	SM1S075-08	75	75	7000	30	2015/12/22	KOREA
M177	SM1S075-08	75	75	7000	30	2015/12/22	KOREA
M178	SM1S075-08	75	75	7000	30	2015/12/22	KOREA
M179	SM2S100-08	100	100	8000	52	2016/01/21	CHINA
M180	SM2S100-08	100	100	8000	52	2016/01/21	CHINA
M181	SM2S100-08	100	100	8000	52	2016/01/21	CHINA
M182	SM2S100-08	100	100	8000	52	2016/01/21	CHINA
M183	DL1P600-06	600	450	6000	350	2015/12/31	KOREA
M184	DL1P600-06	600	450	6000	350	2015/12/31	KOREA
M185	SM1S050-0.6	50	42	5500	35	2016/03/18	KOREA
M186	SM1S050-0.6	50	42	5500	35	2016/03/18	KOREA
M187	ATB050-0.6	50	42	6000	35	2016/04/14	CHINA
M188	ATB050-0.6	50	32	5880	22.5	2016/04/14	CHINA
M189	ATB050-0.6	50	32	5880	22.5	2016/04/14	CHINA
M190	ATB100-08	100	85	7000	52	2016/05/12	CHINA
M191	ATB100-08	100	85	7000	52	2016/05/12	CHINA
M192	ATB100-08	100	85	7000	52	2016/05/12	CHINA
M193	ATB150-0.6	150	125	5000	100	2016/05/12	CHINA
M194	ATB150-0.6	150	125	5000	100	2016/05/12	CHINA
M195	ATB150-0.6	150	125	5000	100	2016/05/12	CHINA
M196	ATB150-0.8	150	125	6000	84	2016/05/12	CHINA
M197	ATB150-0.8	150	115	7400	75	2016/07/11	CHINA
M198	ATB150-0.8	150	115	7400	75	2016/07/11	CHINA
M199	ATB150-0.8	150	115	7400	75	2016/07/11	CHINA
M200	ATB100-0.6	100	75	5000	60N	2016/08/14	KOREA
M201	ATB100-0.6	100	75	5000	60N	2016/08/14	KOREA
M202	ATB100-0.6	100	75	5000	60N	2016/08/14	KOREA
M203	ATB150-0.8	150	125	7300	67N	2016/08/14	KOREA
M204	ATB150-0.8	150	125	7300	67N	2016/08/14	KOREA
M205	ATB150-0.8	150	125	7300	67N	2016/08/14	KOREA
M206	ATB100-06	100	75	6000	70	2016/07/08	KOREA
M207	ATB100-06	100	75	6000	70	2016/07/20	KOREA
M208	ATB010-06	10	7.5	6000	5.8	2016/06/23	JAPAN
M209	ATB100-08	100	75	8000	50	2016/06/23	JAPAN
M210	ATB150-10	150	125	10000	62	2016/07/18	CHINA
M211	ATB200-08	200	150	8000	73	2016/07/18	CHINA
M213	TX100HP-06	100	75	6000	70	2016/08/18	VIETNAM
M214	TX100HP-06	100	75	6000	70	2016/08/18	VIETNAM
M215	TX150HP-07	150	115	7000	80	2016/08/29	VIETNAM
M216	TX150HP-07	150	115	7000	80	2016/08/29	VIETNAM
M217	TX600-07	600	450	7000	525	2022/04/01	VIETNAM