



Unique design optimizes efficiency

Our design minimizes pressure drop, optimizes cooling effects, and minimizes unnecessary pressure loss and heat consumption.

This series of unique designs allows you to use the SWTII series of oil-free screw air compressors to obtain greater gas production. This not only means energy savings, but also the air compressor is operating in a most reliable way.





Ultra-thin coating

We use ultra-thin coating of international patented technology, which shows amazing adhesion and durability under the relevant test, and the light weight of the coating itself prevents the possibility of shedding.







Large capacity low pressure drop-cooler

The increased cooling area not only provides high heat exchange efficiency, but also provides sufficient allowance for the compressed air to pass through the cooler at once. The extremely low pressure drop results in higher compression efficiency.





Completely oil-free compression guarantee

Exclusive patented "2 atmospheric vent holes structure" prevents lubricating oil from entering the compressed air chamber through the shaft seals, even if unloading for a long time, the compression chamber is maintained 100% oil free.

High-strength bearing

With special anti-friction bearings, it can easily carry all loads and optimize the mechanical design, so that the bearing life is further guaranteed.

High grade gear

High-grade precision gears are used, and a unique patented seal is placed at the input end of the drive gear to prevent oil penetrating into the compression chamber, ensuring that the compressed air is completely oil-free.

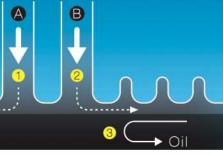
Independent auxiliary pump

Make sure that the supply compressor has sufficient oil pressure when starting and stopping.

Unload runtime

- 1 Air is sucked into the compression chamber through hole A.
- 2 Air is sucked into the labyrinth seal through hole B.
- 3 The air entering through hole B prevents the lubricating oil from entering the compression chamber. A B

atmosphere A B Compression chamber(Vacuum)





Large Diameter Low Pressure Drop - Inlet Valve

Reduce pressure modulating band utilizing a pneumatic diaphragm action butterfly valve for unloading. Pressure band is decreased from 0.1MPa to 0.05MPa, eliminating unnecessary energy consumption by preventing unnecessary pressure rise.

Intake duct

- The design of independent air inlet box and air inlet duct minimizes the pressure drop of the air intake, the external air inlet ensures the air inlet temperature and improves the compression efficiency.
- Air passes through a silencer channel before entering the air filter to minimize inlet noise reduction.



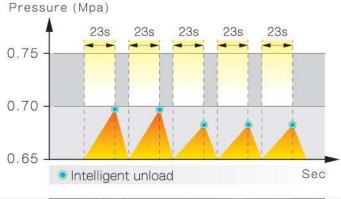
High quality performance

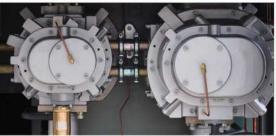
Energy saving logic optimizes operation

- Has an energy-saving logic function to force the compressor to unload after the loading time has exceeded a minimum.
- Intelligent load/unload cycle (23 Sec).
- Reduce pressure band by forced unloading to eliminate unnecessary energy consumption.

Integral structure reduces mechanical losses

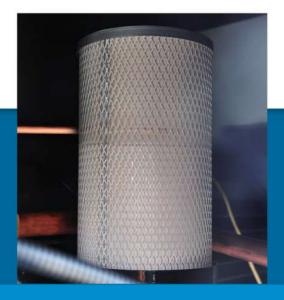
- The Airend and motor of the compressor are driven by gears.
- No coupling design to reduce mechanical loss.







 They drain condensate forcibly by timers and solenoid valves, which reduce air loss as well as ensuring condensate drainage.



Standard packaged oil mist filter

- Included in standard package, eliminates extra installation of external breather pipe.
- Over 99% high oil separation efficiency.
- Filtered oil return into the tank, avoiding oil wastage.

Low noise

- Unique noise mask and silencer eliminates noise from the source.
- The host motor and cooler assembly are housed on the same set of shock mounts and are equipped with high-efficiency shockproof pads to minimize vibration.



Easy maintenance

Simple day-to-day management by the electronic controller.

- Electronic controller with large LCD Panel can simplify daily operation and management.
- Monitor various information on air compressor status, display maintenance, alarm, emergency stop information and their corresponding countermeasures, helps prevent emergency stop and rectify it quickly and effectively.



The maintenance space is convenient enough

The design of the unit's housing and the arrangement of the internal parts are in order. It is only necessary to open the door panel to reach the maintenance point. This makes the maintenance work easy and guarantees the continuity of production.

Cooler cleaning is convenient

- Shell-and-tube cooler, Water flowing in the duct, and the scale is easy to clean.
- Drawer design for easy maintenance and installation.

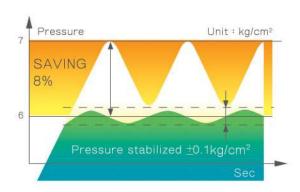
Convenient lubricating grease nozzle

- The grease can be easily filled just by opening a door.
- without touching the machine, the body does not have to extend into the chassis.

Product characteristics

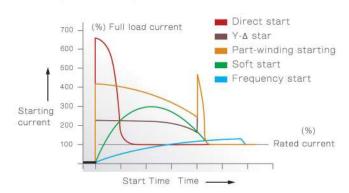
Make Stabile pressure for energy saving

 Variable frequency control instantly responds to changes in air volume used by customers.
 Supply air pressure fluctuations are stable below ± 0.1kg/cm², which can significantly save running electricity tariffs by up to 35%.



VFD soft start

Variable frequency soft start, smooth linear operation, no traditional direct start or star delta startup current, reduce the impact on the circuit, power, greatly extend the life of the contactor, motor and compressor body.





Fixed frequency model

Air Cooling

Water Cooling

Product model	Power	Discharge pressure	Discharge air volume	L	W	Н	Weight
Unit	kW	MPa	m³/min	mm	mm	mm	kg
SWT75CAII	75	0.75	11.8	1830	1400	1783	2085
SWT75CAII	75	0.85	10.1	1830	1400	1783	2085
SWT75AII	75	0.75	12.8	2010	1500	2160	2840
SWT90A II	90	0.75	15.8	2010	1500	2160	3080
SWT90A II	90	0.85	12.8	2010	1500	2160	3080
SWT100AII	100	0.75	17	2010	1500	2160	3080
SWT75CWII	75	0.75	12	1730	1170	1683	2135
SWT75CWII	75	0.85	10.3	1730	1170	1683	2135
SWT75CWII	75	1	10.3	1730	1170	1683	2135
SWT75WII	75	0.75	13	2150	1335	1891	2850
SWT90WII	90	0.75	16	2150	1335	1891	3080
SWT90WII	90	0.85	14.1	2150	1335	1891	3080
SWT90WII	90	1	12.9	2150	1335	1891	3080
SWT100WII	100	0.75	17.2	2150	1335	1891	3080
SWT100WII	100	0.85	16	2150	1335	1891	3080
SWT100WII	100	1	14.1	2150	1335	1891	3080
SWT110WII	110	0.85	17.1	2150	1335	1891	3230
SWT110WII	110	1	16	2150	1335	1891	3230
SWT120CW II	120	1	17.1	2150	1335	1891	3300



VSD model

Air Cooling Water Cooling

	Product model	Power	Discharge pressure	Discharge air volume	L	W	Н	Weight
	Unit	kW	MPa	m³/min	mm	mm	mm	kg
	SWTV75AII	75	0.75	11.6	2466	1500	2160	2976
	SWTV75CAII	75	0.85	10.1	2385	1400	1783	2290
	SWTV100A II	100	0.75	17	2466	1500	2160	3190
	SWTV100A II	100	0.85	15.7	2466	1500	2160	3190
Г	SWTV75CWII	75	0.85	10.3	2120	1170	1683	2310
Г	SWTV75CWII	75	1	10.3	2120	1170	1683	2310
	SWTV75WII	75	0.75	11.8	2604	1335	1891	2976
	SWTV100WII	100	0.75	17.2	2604	1335	1891	3190
	SWTV100WII	100	0.85	16.0	2604	1335	1891	3190
	SWTV100WII	100	1	14.1	2604	1335	1891	3190





ISO08573-1 Class Zero Certified

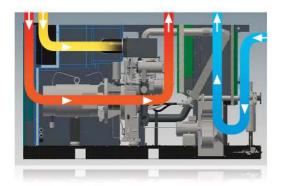
We are proud of our 100% oil-free and energy-efficient SWT III next-generation models, featuring leading-edge power performance, superior reliability and durability, further technological innovation and reduced detail partial energy consumption, as well as quietness and price performance ratio, have increased dramatically.

Extremely oil free Full performance optimization



lilted single channel cooler

The cooler tilting mode and single-channel design ensure condensate removal, with a centrifugal fan to reduce heat and improve cooler durability.



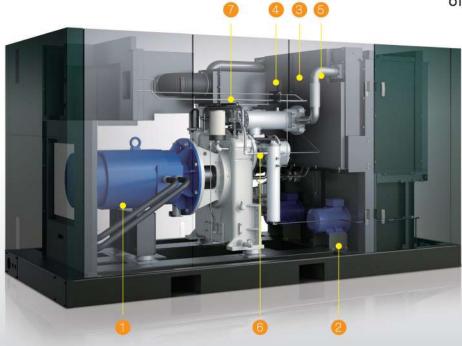
3BOX exhaust heat structure is effectively cooled

The 3BOX structure is divided into a cooler box, a motor air box and an air air box to ensure effective cooling and high durability. It can be operated for a long time even at 45°C, and is effectively cooled internally.

Inlet Air suction box

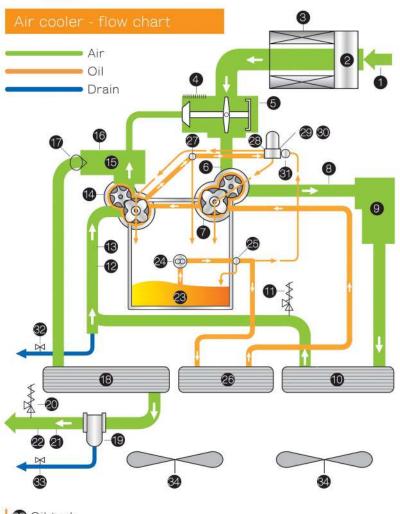
Motor cooling Air suction box

Cooler box



Air cooler perspective

- Motor (IPM/IE3)
- Centrifugal fan
- Oilcooler
- Intercooler
- Aftercooler
- Objective in the contract of the contract o
- Suction silencer



- 23 Oil tank
- 24 Oil pump
- 25 Relief valve 1
- 26 Oilcooler
- 2 Relief valve 2
- 28 Oil filter
- 29 Oil temperature sensor
- 30 Oil pressure sensor
- 3 Thermo valve

- 1 1st suction temperature sensor
- 2 1st suction silencer
- 3 Suction filter
- 4 Bow off silencer
- 5 Capacity control valve
- 6 1st suction pressure sensor
- 7 1st stage compressor
- 8 1st discharge temperature sensor
- 9 1st discharge silencer
- 10 Intercooler
- 1 Safety valve 1
- 12 2nd suction pressure sensor
- 13 2nd suction temperature sensor
- 14 2nd stage compressor
- 15 2nd discharge silencer
- 16 2nd discharge temperature sensor
- TShuttle valve
- 18 Aftercooler
- 19 Drain separator
- 20 Safety valve 2
- 21 Suction pressure sensor
- 22 discharge temperature sensor
- 32 Two-way solenoid valve(Intercooler)
- 33 Two-way solenoid valve(Drain separator)
- 34 Cooling fan





Pressure loss comparison Intercooler 2kPa 8.5kPa Aftercooler 2kPa 10kPa

Extremely oil free Full performance optimization

Low pressure loss plate fin cooler

- Through the low pressure loss cooler, the air loss is only 1/5 of the shell and the exhaust temperature is lower than that of the SWT II.
- Because of the lowering of the discharge temperature, it is conducive to the selection of the dryer, which can save the loss of the regeneration air volume, reduce the regeneration air volume, and improve the energy consumption of the air pipeline system.

Old SWTII exhaust temperature: cooling water temperature + 9~15 °C

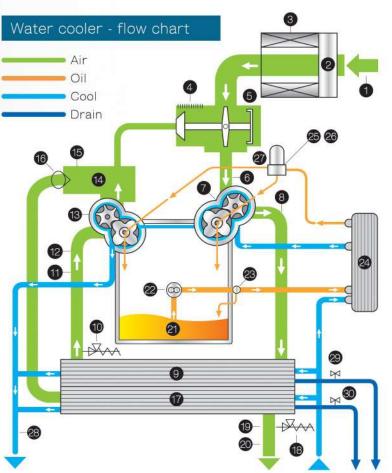
New SWTIII exhaust temperature : cooling water temperature + below 8 °C

- Global design pressure vessel (Applicable to ASME except GB and JIS)
- Even if the inlet water temperature reaches 40 °C, there is still enough headroom to continue running
- · Standard stainless steel tube to ensure high corrosion resistance



Air cooler perspective

- 1 controller
- Suction filter
- 3 Oil filter
- 4 Oilcooler
- 5 Intercooler
- 6 Aftercooler
- Capacity control valve
- 8 Discharge silencer
- Suction silencer



- 1 1st suction temperature sensor
- 2 1st suction silencer
- 3 Suction filter
- 4 Bow off silencer
- 5 Capacity control valve
- 6 1st suction pressure sensor
- 1st stage compressor
- 8 1st discharge temperature sensor
- 9 Intercooler
- 10 Safety valve 1
- 1 2nd suction temperature sensor
- 12 2nd suction pressure sensor
- 13 2nd stage compressor
- 4 2nd discharge silencer
- 15 2nd discharge temperature sensor
- 16 Shuttle valve
- 1 Aftercooler
- 18 Safety valve 2
- 19 Suction pressure sensor
- 20 Discharge temperature sensor

- 2 Oil tank
- 22 Oil pump
- 23 Relief valve
- 24 Oilcooler
- 25 Oil temperature sensor
- 26 Oil pressure sensor
- 2 Oil filter

- 28 Flow Switch
- Two-way solenoid valve (Intercooler)
- Two-way solenoid valve (Aftercooler)

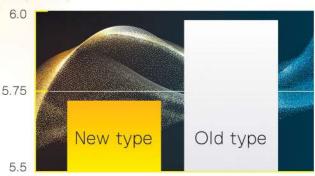
Product features

Achieve superior low energy consumption

In crease in specific power 3-4%

The new generation of SWTIII is based on standards for the development of the airend, the whole machine, and the goal of improving performance.

kW/(m³/min)



A new type of airend that pursues high efficiency

Performance improvement 2-3%

- Optimize intermediate pressure to minimize energy consumption,
- Optimized airend clearance through surface coating and improved shaft seal structure
- Reduce the air leakage of the shaft seal



Machine design that effectively reduces losses

Performance improvement 1%

Low energy consumption is effectively achieved by reducing pressure loss and auxiliary power, as well as loading IPM motors or IE3 motors, centrifugal fans and other high-efficiency components.

In addition, by optimizing the cooler design, the exhaust gas temperature is reduced, and subsequent components are miniaturized to further save energy.



Higher quietness

Noise value reduced by 7-10%

Through the complete noise countermeasures, the noise-free noise is reduced, and the average value of 9 points around the equipment is measured with strict noise value, which is greatly reduced compared with the original organic type, achieving a quiet and comfortable working environment.

High quality noise-proof cabinet structure The air inlets of the cabinet are concentrated in one

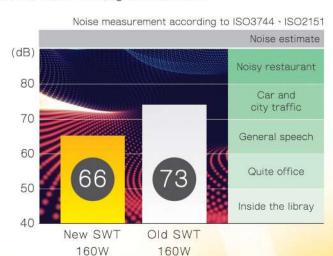
place to reduce the noise source, and at the same time, the air inlets are provided with staggered baffles to further reduce noise.

Enclosures

Install a sound-insulating cotton that removes harsh frequencies and a highly airtight seal structure to effectively suppress noise leakage.

Silencer

Effectively soundproofed from the noise source through the newly developed intake and exhaust silencer.



Main parts

Controller

- · Easy new controllers can easily confirm the status of air compressors.
- 7 inch touch panel helps check and set.
- Complete protection function.
- Data preservation and recording.



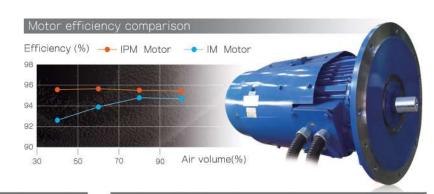
Motor

Permanent magnet motor (IPM)

Control all load changes by speed control, even if low load heat loss is rare.

• IE3 motor (IM)

As a standard load/unload control, the basic load machine for multiple joint control is the best motor.



Oil pump

The oil pump is built into the gearbox and is driven by a highly efficient main motor to reduce power consumption. This reduces

the risk of oil leakage due to fewer piping connections.



Capacity control valve

Energy-saving logic control, pneumatic capacity control valve with excellent reactivity and durability,

built-in exhaust silencer to reduce piping design.



Centrifugal fan

A large air volume centrifugal fan ensures efficient cooling. (for air cooling)



Discharge silencer

The combination of the expansion type and the multi-hole plate type silencer can better exert the noise prevention effect in a wider frequency band, and can also effectively respond to the noise variation caused by the inverter number control.



Fixed frequency model

Air Cooling

Water Cooling

Product model	Power	Discharge pressure	Discharge air volume	L	W	Н	Weight
Unit	kW	MPa	m³/min	mm	mm	mm	kg
SWT132AIII	132	0.75	23.7	3730	1700	1995	4700
SWT132AIII	132	0.85	20.9	3730	1700	1995	4600
SWT132AIII	132	1	18.6	3730	1700	1995	4600
SWT145AIII	145	0.75	25.5	3730	1700	1995	4700
SWT145AIII	145	0.85	23.7	3730	1700	1995	4700
SWT145AIII	145	1	20.8	3730	1700	1995	4700
SWT160AIII	160	0.75	28	3730	1700	1995	4700
SWT160AIII	160	0.85	25.5	3730	1700	1995	4700
SWT160AIII	160	1	23.7	3730	1700	1995	4700
SWT200AIII	200	0.75	35.4	4300	1900	2180	6200
SWT200AIII	200	0.85	32.9	4300	1900	2180	6200
SWT200AIII	200	1	29.6	4300	1900	2180	6200
SWT250AIII	250	0.75	44	4300	1900	2180	6200
SWT250AIII	250	0.85	40.4	4300	1900	2180	6200
SWT250AIII	250	1	37.3	4300	1900	2180	6200
SWT275AIII	275	0.75	47.6	4300	1900	2180	6250
SWT275AIII	275	0.85	44	4300	1900	2180	6250
SWT275AIII	275	1	40.4	4300	1900	2180	6250
SWT132WIII	132	0.75	24.6	2705	1545	1845	4100
SWT132WIII	132	0.85	21.8	2705	1545	1845	4100
SWT132WIII	132	1	19.4	2705	1545	1845	4100
SWT145WIII	145	0.75	26.5	2705	1545	1845	4200
SWT145WIII	145	0.85	24.6	2705	1545	1845	4200
SWT145WIII	145	1	21.6	2705	1545	1845	4200

Product model	Power	Discharge pressure	Discharge air volume	L	W	Н	Weight
Unit	kW	MPa	m³/min	mm	mm	mm	kg
SWT160WIII	160	0.75	29	2705	1545	1845	4200
SWT160WIII	160	0.85	26.5	2705	1545	1845	4200
SWT160WIII	160	1	24.5	2705	1545	1845	4200
SWT200WIII	200	0.75	37.4	3150	1600	2180	5950
SWT200WIII	200	0.85	33.5	3150	1600	2180	5950
SWT200WIII	200	1	30.2	3150	1600	2180	5950
SWT250WIII	250	0.75	45	3150	1600	2180	5950
SWT250WIII	250	0.85	41.3	3150	1600	2180	5950
SWT250WIII	250	1	38.1	3150	1600	2180	5950
SWT275WIII	275	0.75	48.6	3150	1600	2180	6000
SWT275WIII	275	0.85	45	3150	1600	2180	6000
SWT275WIII	275	1	41.3	3150	1600	2180	6000

VSD model		
VSD Model	Air Cooling	Water Cooling

Product model	Power	Discharge pressure	Discharge air volume	L.	W	Н	Weight
Unit	kW	MPa	m³/min	mm	mm	mm	kg
SWTV132AIII	132	0.75	24	3730	1700	1995	4300
SWTV132AIII	132	0.85	21.1	3730	1700	1995	4200
SWTV160AIII	160	0.75	28.3	3730	1700	1995	4300
SWTV160AIII	160	0.85	25.8	3730	1700	1995	4300
SWTV250AIII	250	0.75	44.4	4300	1900	2180	5600
SWTV250AIII	250	0.85	40.8	4300	1900	2180	5600
SWTV132WIII	132	0.75	24.8	2705	1545	1845	3700
SWTV132WIII	132	0.85	22	2705	1545	1845	3700
SWTV132WIII	132	1	19.6	2705	1545	1845	3700
SWTV160WIII	160	0.75	29.3	2705	1545	1845	3800
SWTV160WIII	160	0.85	26.8	2705	1545	1845	3800
SWTV160WIII	160	1	24.8	2705	1545	1845	3800
SWTV250WIII	250	0.75	45.4	3150	1600	2180	5350
SWTV250WIII	250	0.85	41.7	3150	1600	2180	5350
SWTV250WIII	250	1	38.5	3150	1600	2180	5350



FUSHENG INDUSTRIAL CO., LTD

HEAD OFFICE

No. 172, Sec.2, Nanjing E. Rd., Zhongshan Dist.,

FACTORY (SALES OFFICE)

No. 60, Sec. 2, Guangfu Rd., Sanchong Dist., Taipei City 241,

Taiwan (R.O.C)

TEL: (+886) 2-2995-1411 FAX: (+886) 2-2995-7925

Mail: machinery.sc@fusheng.com Website: http://www.fusheng.com

FUSHENG (VIETNAM)

No. 06, 3A Road, Bien Hoa Industrial Zone II, Dong Nai, Vietnam

FAX: (+84) 251-383-4599 TEL: (+84) 251-383-4566

Mail: sales@fusheng.com.vn

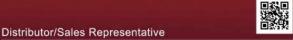
Website: http://www.vn.fusheng.com

FUSHENG (THAILAND)

140/1-2 Moo.12 Soi.9/1 Kingkaew Rd., T.Rachathewa,

A.Bangplee, Samutprakarn 10540, Thailand TEL: (+66) 2-312-4547 FAX: (+66) 2-312-4530

Mail: sales.fsth@fusheng.com Website: http://www.th.fusheng.com



SWT(II/III)-10804-112A000-E1