Hanwha Power

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	Changwon 2	69, Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea
	Busan 3	31, Gwahaksandan 2-ro, Gangseo-gu, Busan, Korea

Global Network

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  Tel +39.02.8410.2191

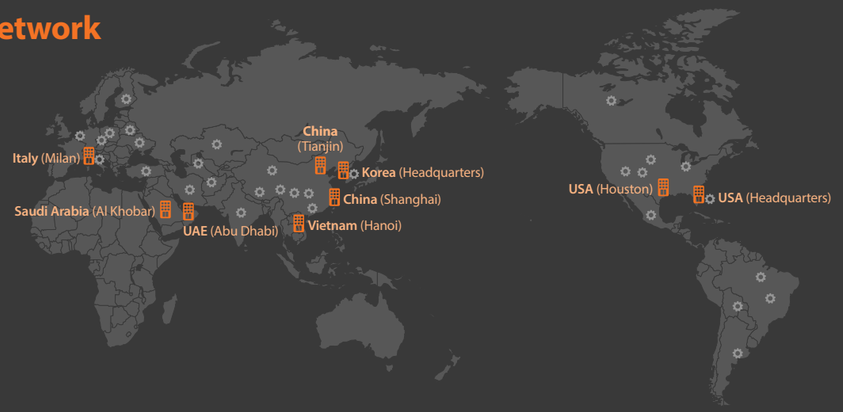
Website : www.hanwhapower.com
E-mail : hanwhapower@hanwha.com

Turbo Compressor Certification Status

- ISO 9001
- ISO 14001
- ISO 45001
- CE(DOC)
- PED
- UL

The information contained in this document is subject to change without prior notice.

Worldwide Network



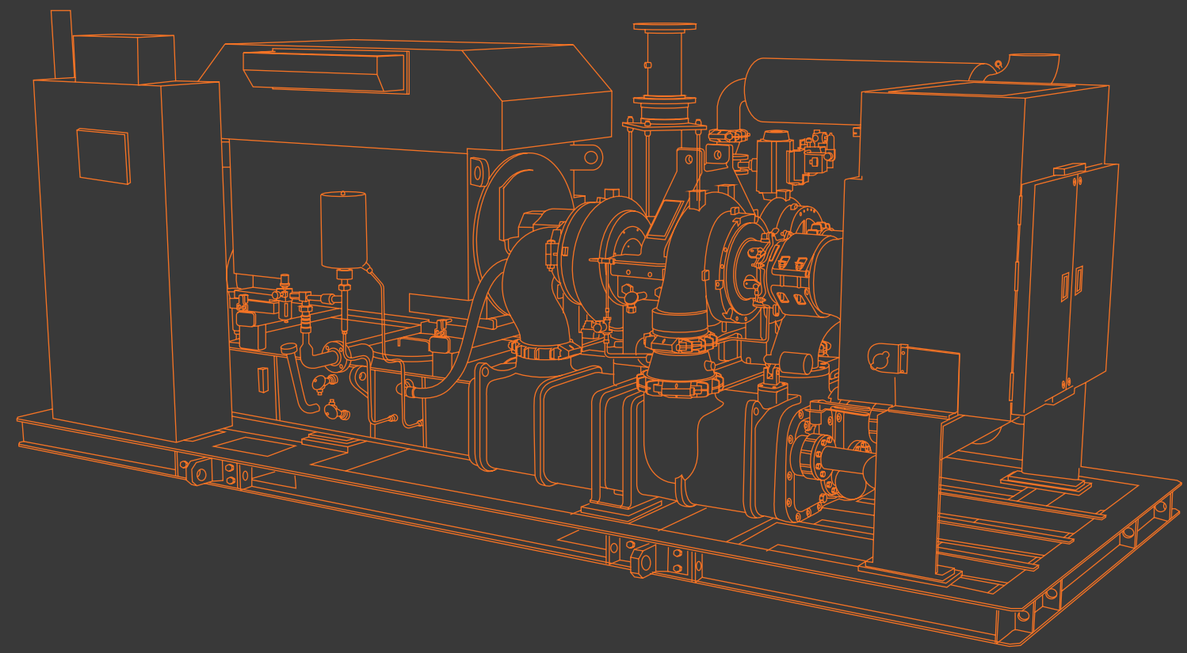
Global Entities & Offices

Service Center

Hanwha Power

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OIL-FREE CENTRIFUGAL AIR COMPRESSOR



Hanwha Power

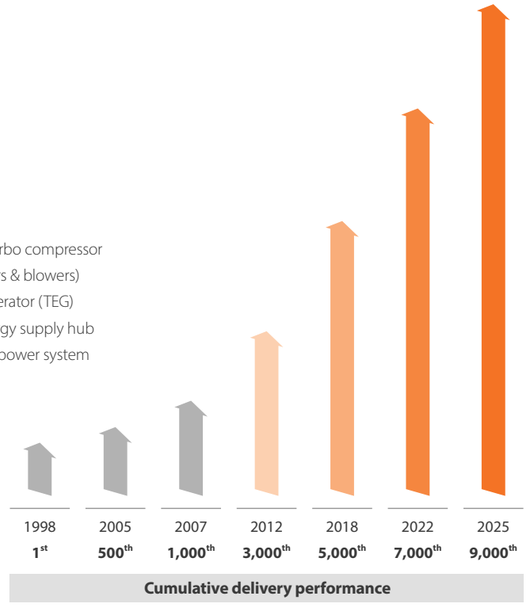
GRANZOW
svensk tryckluftspartner

Introduction to Hanwha Power

With a solid foundation of long-term reliability and experience in the gas turbine engine field, Hanwha Power entered the industrial energy equipment market in 1997.
Since then, it has grown into a global company, with a sales record of over 9,000 units worldwide. The company's product range, which includes air compressors for various industries, oil & gas, air separation, and fuel gas compressors for power plants, BOG (Boil Off Gas) compressors for LNG terminals, cryogenic compressors, companders, and shipbuilding and marine compressors, is a reflection of its enduring commitment to high added value.

History

- **1977** Company Establishment
- **1979** Aircraft Gas Turbine Engine Overhaul Business Launch
- **1996** Industrial Gas Turbine Development
- **1997** Industrial Air Compressor Business Start
- **2011** Gas Compressor Market Entry
- **2013** Launch of the world's largest air-cooled turbo compressor (SA3100)
- **2014** Marine Compressor Market Entry
  Signing of the world's first supply contract for offshore VRU (vapor recovery) turbo compressor
- **2016** Approved vendor registration with Saudi Aramco (API 617 process compressors & blowers)
- **2018** Launch of eco-friendly, high-efficiency energy solution pressure reducing generator (TEG)
- **2020** Supply contract signed for hydrogen charging system at KOGAS complex energy supply hub
- **2021** Received and achieved DOE (Department of Energy) national project for sCO_2 power system
- **2022** sCO_2 power system wins global R&D100 Award
  Entry into ethylene compressor and CO2 compressor markets
- **2023** Successfully demonstrated world's first full combustion of hydrogen turbine
- **2024** 174K LNGC vessel Nitrogen Re-liquefaction System technology approved (ADNOC)
- **2025** Joint Development and Cooperation Agreement with Baker Hughes for ammonia gas turbine
  New air compressor product launch (SM100 Pro)
- **2026** Company name changed to Hanwha Power



Cumulative delivery performance

Applicable Industries

Oil & Gas
- Instrument Air
- API 617 & API 672

Petrochemical
- Ethylene
- Polymers
- EO/EG
- Fine Chemicals
- Fertilizers
- PTA
- PDH

Power Plant
- CCPP (Combined Cycle Power Plant)
- Instrument Air

General Industry
- Electronic
- Industrial Manufacturing Facilities (Automobile, Shipbuilding)
- Mining, Construction & Others
- Food, Glass, Paper, etc.

Air Separation
- Gas Processing & Treatment
- LNG Terminal & Liquefaction
- Cryogenic Solutions

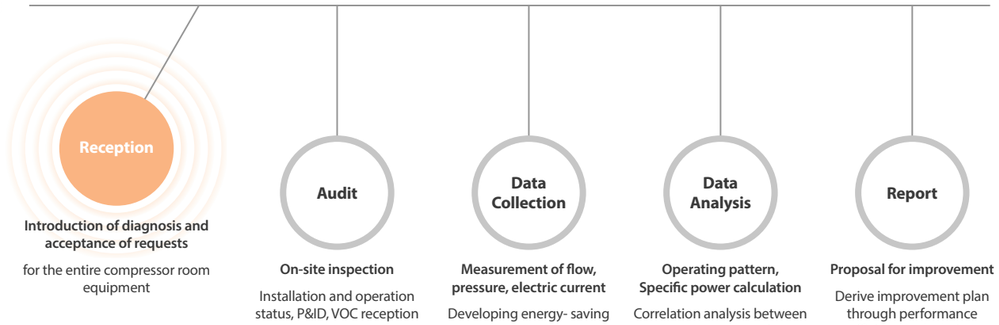
Steel/Metal
- Steel Mills
- Non-Ferrous Plants(Al, Copper, Nickel, etc)
- Air Separation

Total Solution

Compressor Room Total Solution

We check the operating status of the customer's entire compressor room air system to recommend the most efficient equipment operation plan. We also measure and analyze actual operating data, such as flow rate and power consumption, to suggest an economical compressor operation plan that reduces energy usage. Diagnosis takes up to 2 weeks.

Process



Monitoring

Extend compressor life, maximize availability, and minimize downtime through remote monitoring.

Local HMI
(Human Machine Interface)
- Dashboard (Local HMI)

Compressor state remote Monitoring
- SMS & Email
- Web & Mobile

AM Service Proposal
- Analysis of operational information
- Periodic report provision
- Customized parts replacement
- Periodic inspection
- Suggestion of energy saving measures

M2M Gateway
- Serial, Ethernet

Cloud Server
- Secure Connect Manager

Hanwha Monitoring Center
- Smart Care Monitor

Dependable Products Lineup

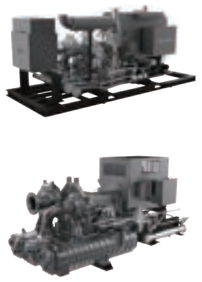
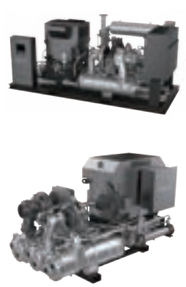
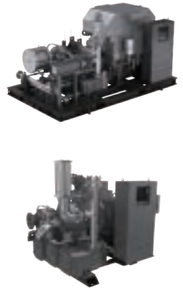
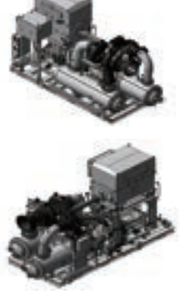
Integrally Geared Type

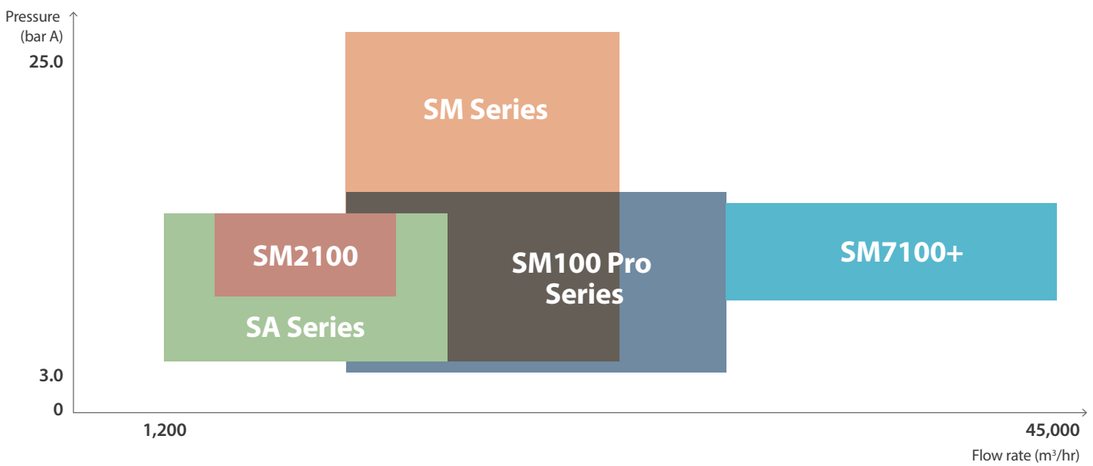
Hanwha Power turbo compressor (Integrally Geared Type) promises excellent performance and efficiency through proprietary technology.
We supply clean, dry '100% Oil-Free' air to maintain optimal production conditions while complying with strict environmental regulations. This is why we are recognized for safety and reliability as the best-customized solution in various industries.

100% Oil-Free

ISO8573-1 Class 0 Clean Air Supply

Our products have achieved the prestigious ISO8573-1 Class 0 certification, representing the highest quality standard for compressed air. They are extensively utilized across industries that demand high reliability, including advanced sectors such as semiconductors and batteries, as well as steel, chemical, and food industries.

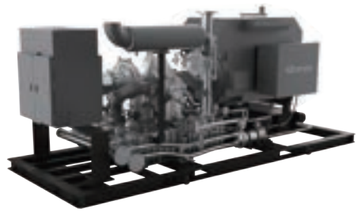
SM100 Pro Series (NEW)	SM Series	SM2100	SM7100+ (NEW)	SA Series
				



Key Technical Feature

Concentrating on Efficiency with Reliability

Optimized components and simple design ensure high efficiency and stable operation.



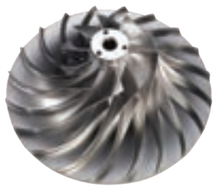
Customized high-performance, high-reliability of turbo compressors

- Achieving high efficiency and energy saving through proprietary designs and technologies
- Compliant with various international standards including API, ASME, PED, and KOSHA
- Providing 100% Oil Free solution (ISO8573-1 Class 0)
- Simple structure offering easy installation/maintenance
- Customized solutions including complete compressed air systems per specific user requirements

High-durability gear system based on sophisticated technology

- Delivering peak performance based on over 30 years of accumulated design expertise
- High reliability and durability verified through numerous operating experiences
- Reduced maintenance time through easy disassembly on site





Impeller manufactured based on proprietary/advanced design technology

- Maximize optimal stability and energy efficiency through sophisticated design
- High reliability through low vibration and low noise achievement
- Implementation of optimized customer-specific designs

High-durability Coolers

- Optimal airflow design to minimize pressure drop
- Excellent durability achieved by applying materials suitable for the user environment
- Easy to clean and maintain with a water-in-tube type





Provide the best interface for users

- Provide user-oriented convenience (high-resolution color application)
- Apply a wide touch-screen for customer convenience
- Implemente a compressor diagnosis and alarm provision system through real-time monitoring

High Efficiency & High Profit

SM100 Pro Series NEW

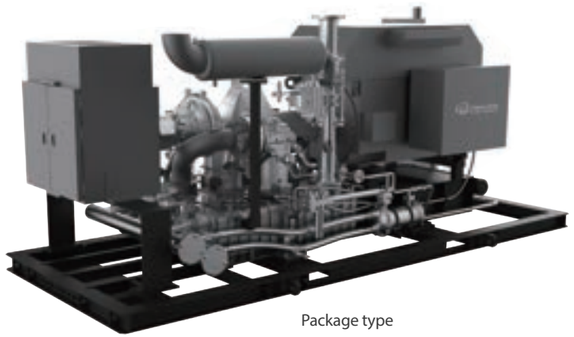
Features

- Provide environmentally friendly solutions that contribute to reducing CO_2 emissions through improved energy efficiency
- Improve efficiency and expanding flow range by optimizing aerodynamic components
- Up to 5% efficiency improvement compared to our existing products
- Provide various options and solutions according to customer operating conditions and environments
  - Provide secondary battery-oriented Cu-Zn Free solutions
  - Possible to operate in outdoor environments
  - Manufacture Combo compressors
  - Possible to design according to customer-required discharge temperature conditions
  - Possible to manufacture products certified required by each country (KGS/PED/TRCU/UKRSEPRO/CRN/CSA)

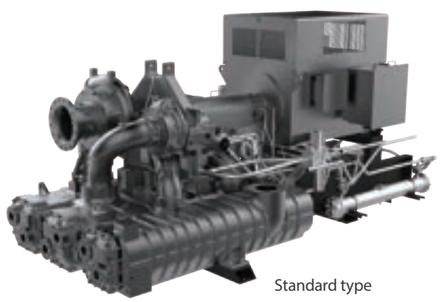
Specifications

Model			SM3100 Pro	SM4100 Pro	SM5100 Pro	SM6100 Pro	SM7100 Pro
Capacity	m^3/hr		3,300 ~ 5,690	4,340 ~ 9,030	7,350 ~ 15,150	11,630 ~ 25,890	24,500 ~ 36,000
	CFM		1,950 ~ 3,240	2,480 ~ 5,160	4,200 ~ 8,670	9,800 ~ 14,800	14,400 ~ 21,150
Power	kW		250 ~ 600	460 ~ 900	570 ~ 1,500	870 ~ 2,520	1,000 ~ 2,800
	HP		270 ~ 800	620 ~ 1,220	770 ~ 2,015	1,170 ~ 3,380	1,340 ~ 3,753
Discharge Pressure	bar A		3.0 ~ 13				3.5 ~ 11.4
	Psi A		43 ~ 188				50 ~ 165
Dimension (L x W x H)	mm	P	5,250 x 2,250 x 2,500	5,500 x 2,250 x 2,500	6,250 x 2,250 x 2,550	7,100 x 2,250 x 2,550	-
		S	3,210 x 2,150 x 1,920	3,800 x 2,300 x 2,050	4,750 x 2,490 x 2,130	5,290 x 2,400 x 2,420	5,700 x 2,800 x 2,950

* P : Package type / S : Standard type



Package type



Standard type

Driving Performance

SM Series

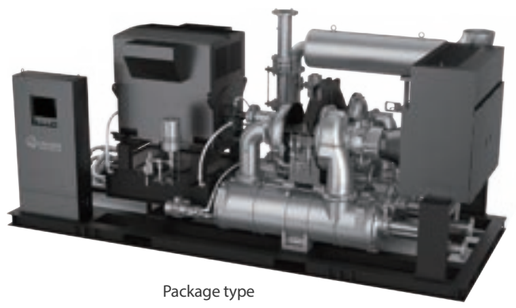
Features

- Standard for industrial air compressors based on high stability and operational reliability
- High-quality air compression system based on API672 Code design
- Customized equipment is available
  - High-pressure compressors of 14 bar A or higher can be manufactured
  - Nitrogen compressors can be manufactured (Carbon Seal Type applied)
  - Combo compressors can be manufactured
  - Booster compressors can be manufactured
  - Country-specific certified products can be manufactured (KGS/PED/TRCU/UKRSEPRO/CRN/CSA)
- High compatibility / Fast service response
  - Respond with the shortest lead time through compatibility of consumable parts for all models (minimizing troubleshooting period)

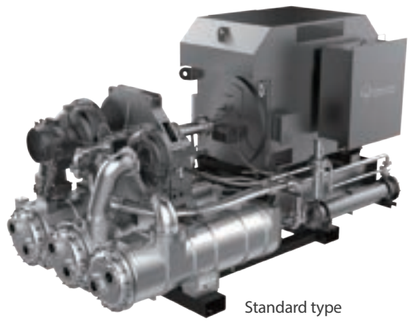
Specifications

Model			SM3000	SM4000	SM5000	SM6000
Capacity	m^3/hr		3,300 ~ 5,300	5,300 ~ 8,400	8,400 ~ 15,000	15,000 ~ 21,000
	CFM		1,950 ~ 3,100	3,100 ~ 4,950	4,950 ~ 8,850	8,850 ~ 12,400
Power	kW		230 ~ 710	360 ~ 1,200	560 ~ 1,800	940 ~ 2,650
	HP		300 ~ 950	480 ~ 1,600	750 ~ 2,410	1,260 ~ 3,550
Discharge Pressure	bar A		3.5 ~ 25			
	Psi A		50 ~ 364			
Dimension (L x W x H)	mm	P	4,750 x 2,100 x 2,500	5,100 x 2,250 x 2,500	5,450 x 2,250 x 2,500	6,200 x 2,300 x 2,550
		S	3,150 x 1,980 x 2,100	3,780 x 2,080 x 2,130	3,960 x 2,100 x 2,350	4,480 x 2,220 x 2,520

* P : Package type / S : Standard type



Package type



Standard type

Driving Performance & Low Flow
SM2100

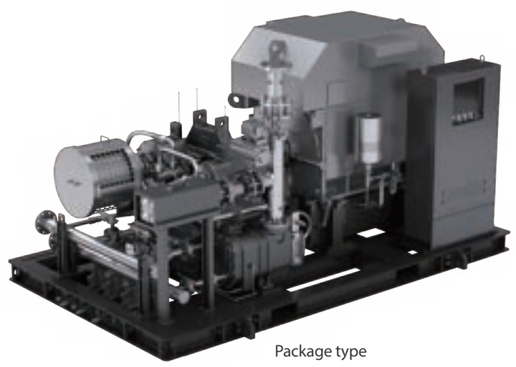
Features

- Customized options tailored to specific customer requirements
- Solutions available from basic expandable models to plug-and-play package configurations, with selectable options
  - Optional components: Base Frame, Cooling Water Manifold, Enclosure - inclusion or exclusion per requirements
- Tilting pad journal bearing applied to Easy Pinion Gear for stable operation and extended service life
  (Bearings replacement recommended based on operating conditions)
- Compact design for minimal installation footprint
- Vibration sensor, oil heater, oil tank vacuum gauge included as standard
- Four-stage API-compliant sealing system for minimized gas leakage
- High-efficiency inlet guide vanes for reduced power consumption via partial load control
- Five-axis machined impeller for optimal stability and efficiency

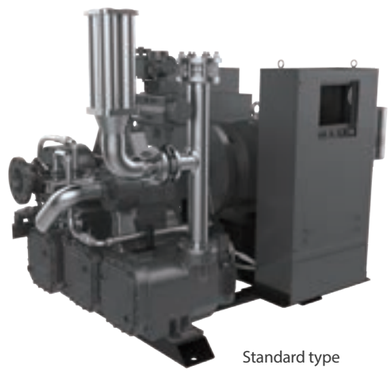
Specifications

Model			SM2100
Capacity	m^3/hr		1,400 ~ 3,550
	CFM		824 ~ 2,089
Power	kW		150 ~ 335
	HP		200 ~ 450
Discharge Pressure	bar A		5.0 ~ 11.4
	Psi A		72 ~ 165
Dimension (L x W x H)	mm	P	3,400 x 2,200 x 2,066
		S	2,360 x 1,660 x 1,770

* P : Package type / S : Standard type



Package type



Standard type

High-tech Intensive
SM7100+ NEW

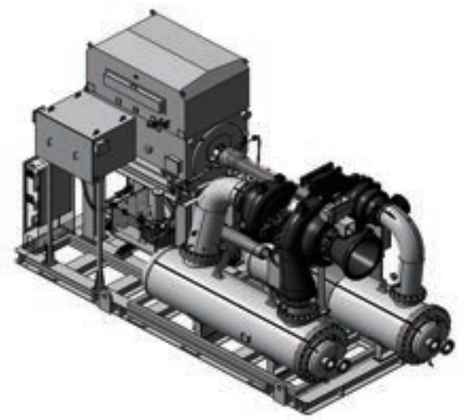
Features

- Standard design basis for high-flow compressors enables optimized product recommendations
- Advanced engineered compressor design by Hanwha Power ensures superior durability, validated by extensive proven references
- Master impeller precision-manufactured with 4th-generation CNC 5-axis machining minimizes energy loss via optimized aerodynamic design
- Compact equipment footprint enhances on-site accessibility and inspection efficiency

Specifications

Model			SM7100 +
Capacity	m^3/hr		32,000 ~ 45,000
	CFM		18,835 ~ 26,487
Power	kW		2,300 ~ 4,000
	HP		3,038 ~ 5,361
Discharge Pressure	bar A		5.0 ~ 11.5
	Psi A		72 ~ 166
Dimension (L x W x H)	mm	S	6,201 x 3,234 x 3,816

* S : Standard type



Designed with Modern Engineering

SA Series

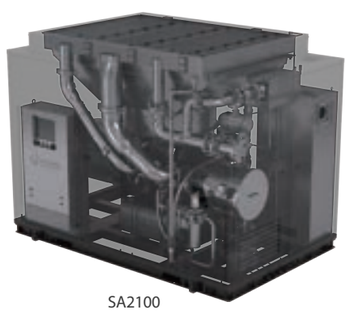
Features

- High-precision AGMA 12 & 13 gear system ensures noise reduction and extended service life
- Easy maintenance with individually replaceable pinion and bull gears
- Master impeller made of 17-4 PH stainless steel
- High-efficiency impeller, 5-axis machined, with a wide turndown range (meets API 672 standard)
- High-quality split-type tilting pad journal bearing for stable operation of the pinion gear
- Sleeve journal and taper-landed bearing design to minimize friction loss
- Bearings compatible with RTD (SA3100 option available)
- Sealing system compliant with API standards
- No separate compressed air required for sealing, effectively preventing air and oil leakage
- Split-type design allows inspection and maintenance without rotor disassembly

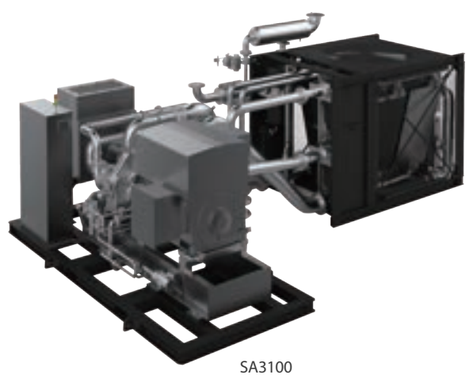
Specifications

Model			SA2100	SA3100
Capacity	m^3/hr		1,200-2,890	3,750-5,500
	CFM		700-1,680	2,200-3,250
Power	kW		150-260	400-580
	HP		200-350	540-780
Discharge Pressure	bar A		3.5-11.4	3.5-11
	Psi A		50-165	50-160
Dimension (L x W x H)	mm	Compressor	3,000x2,500x1,900	4,650 x 2,050 x 1,990
		Cooler	-	4,420 x 2,110 x 2,290

* Flexible cooler options are available (SA3100).



SA2100



SA3100

Services

Smart Care Service

We provide fast and innovative care services using Hanwha's high-quality genuine parts and advanced technology, enabling you to focus on stable maintenance and equipment operation.

Minimize Equipment Downtime

RUSH 112 Worldwide

Hanwha Power is committed to minimizing equipment downtime through our RUSH 112 policy, which ensures rapid and reliable service for our customers.

Customer First

Maximizing Equipment Operation Time

Smart Care

Hanwha Power operates four preventive maintenance programs based on accumulated operating hours to prevent unexpected equipment failures.



AM Solutions

Operational Services

Parts	Maintenance	Periodical Maintenance	Monitoring	Total Solutions
Supply and replacement of parts subject to wear and tear	Appropriate solutions are provided in response to product performance issues.	Stable operation through proactive risk prevention and effective countermeasures	Real-time management service for proactive maintenance and enhanced operational efficiency via continuous monitoring.	Comprehensive management of compressor equipment, including customer-owned operating units.

Operational Objectives

- **Establishment of Management System**
  Rapid and accurate system implementation through designated management personnel
- **Risk Management**
  Comprehensive oversight via regular inspections and diagnostics
- **Cost Reduction**
  Enhancing equipment efficiency while extending service life



Service & underhåll

En viktig del i vårt koncept som totalleverantör och partner, är att kunna erbjuda kvalificerad specialisthjälp för tillsyn, service och underhåll av kompressorer, tryckluftsanläggningar och gasgeneratorer. Genom att teckna serviceavtal med oss, kommer kvalificerad service, rätta reservdelar, effektiva rutiner och löpande dokumentation att garantera en säkrare drift och användning för att distribuera ren tryckluft och rätt kvävgaskvalitet.



ISO 14001

Granzow service är certifierad enligt ISO 14001 vilket medför att kvalitets- och miljötänkande är naturliga faktorer i vårt arbete. Vi ser som en avvåra uppgifter att hålla våra kunders tryckluftsproduktion igång ochsamtidigt utföra uppdraget med utgångspunkt från högt ställda kvalitets- och miljö-krav.

Rätt kapacitet **Rätt kvalité** **Rätt tryck** **Rätt service**

GRANZOW
svensk tryckluftspartner

Service: 020-78 80 00
Försäljning: 0171-47 80 00
www.granzow.se

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