

Globally recognized industrial presence

Over the last sixty years, Kaishan has steadily grown to become a significant, diversified engineering company developing high value machinery for industries worldwide. With modern, specialized manufacturing facilities positioned in seven strategic locations, Kaishan's group of thirty-two subsidiary companies produce over 70,000 rotary screw and 250,000 reciprocating compressors annually. Kaishan is the world's third largest manufacturer of compressed air, mining and drilling equipment and supports industries in more than 60 countries including: USA, Australia, Germany, Japan, Korea, Russia, Africa and throughout Latin America.

Vertically integrated global strategy

Kaishan's global strategy of combining skilled engineering with highly efficient manufacturing allows us to provide performance proven, reliable equipment at a significant cost savings to our customers. Additionally, Kaishan's manufacturing processes are 85% vertically integrated insuring full control of the material supply chain. This vertical approach supplies high quality components at a lower cost, and affords Kaishan the ability to respond rapidly to changing market demands.



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p|m|v|s

PMV SECOND GENERATION COMPRESSOR

• SINGLE-STAGE • AIR-COOLED • VARIABLE SPEED

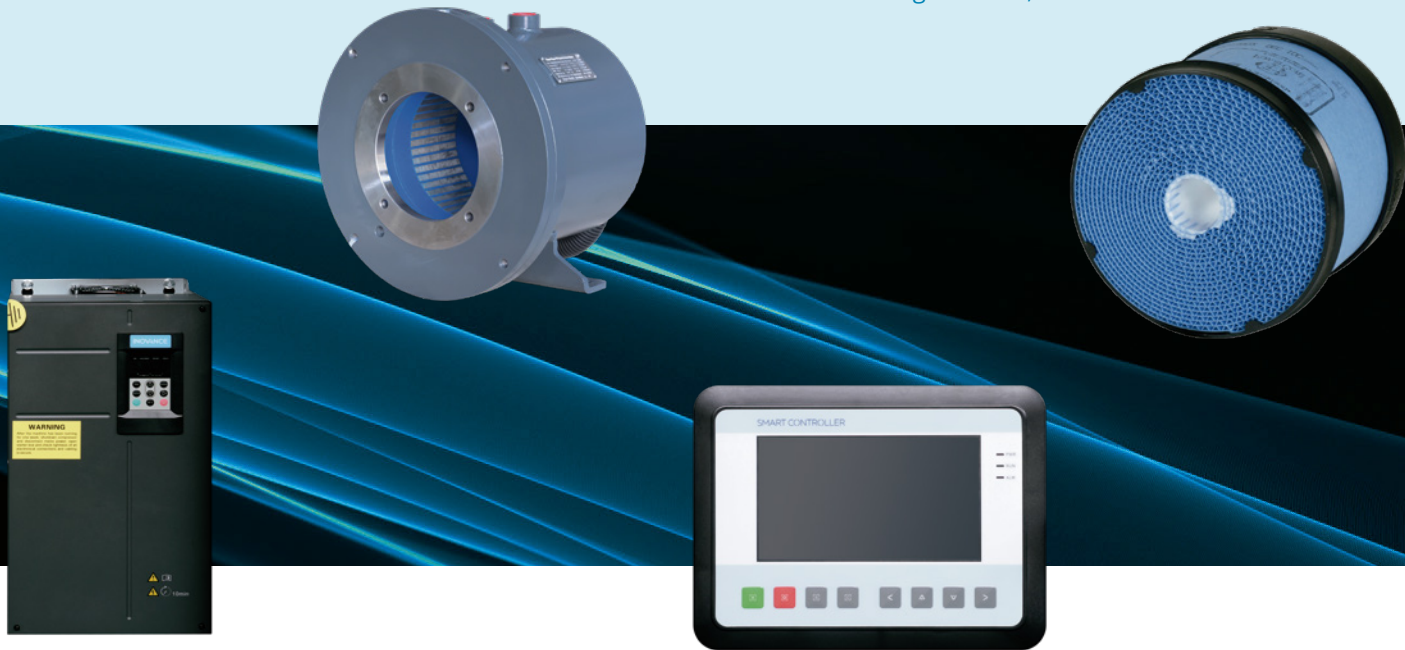


This specification is for direct drive, oil-lubricated, single-stage, air cooled, variable speed PMV series rotary screw air compressor.

- The compressor manufacturer shall be certified under ISO 9001 / 9002 quality standards and ISO 14001 environmental standards.
- The compressor shall be compliant with Machinery safety in accordance with Directive 2006/42/EC
- The compressor shall be compliant with Pressure Equipment regulations in accordance with Directive 2014/68/EU.



- Variable-speed design, maintain a stable discharge pressure by adjusting the motor speed according to the compressor discharge pressure.
- Start / stop regulation to automatically stop the compressor as required during low demand periods.
- Normally open inlet valve for rapid pressure builds up.
- Totally Enclosed Oil-Cooled type main motor with insulation class F, IE4 super premium efficiency.
- Main motor is a permanent magnet type.
- The main motor and airend are designed with a common shaft in a direct-driven, flange-connected configuration, fully enclosed to prevent dirt and dust ingress.
- Kaishan premium synchronous control frequency converter.synthetic lubricant designed for 4,000 hour life.
- Oversized coolers (air and oil) designed for high ambient applications.
- Full powder coated acoustical enclosure with hinged doors providing easy access to maintenance items.
- Flame retardant foam stick on acoustical enclosure to attenuate sound level.
- Heavy duty inlet filter for clean compressed air.
- Stainless steel flex lines on air circuit for increased reliability and reduced vibration.
- Fitted with an aluminum, air-cooled, oil cooler and aftercooler.
- Axial fans driven by Totally Enclosed Fan Cooled motors.
- 3-Stage oil separation to ensure low oil carryover.
- Factory fill with “kerry-8#” premium PAO/POE synthetic lubricant designed for 4,000 hour life.



PMVs SPECIFICATIONS

Model PMV	Pressure MPa	Capacity m³/min	Motor kW	Connection	Weight kg	Dimension L×w×h mm
PMV-15s	0.6 - 1.0	2.26 - 2.88	15	G1	300	1040×720×1160
PMV-22s	0.6 - 1.0	3.59 - 4.65	22	G1	380	1150×780×1280
PMV-37s	0.6 - 1.0	5.90 - 7.65	37	G1 1/2	530	1300×900×1350
PMV-45s	0.6 - 1.0	7.14 - 9.27	45	G1 1/2	740	1530×1010×1540
PMV-55s	0.6 - 1.0	9.99 - 11.95	55	G1 1/2	770	1530×1010×1540
PMV-75s	0.6 - 1.0	12.44 - 15.60	75	G2	1120	1620×1110×1690

- The units shall be manufactured in accordance with this specification.
- Outlet Connection: ISO standard male thread
- Voltage: 380 or 400 or 415V/3Ph/50Hz
- Ambient temp.: 0-45 C

The control system shall have the capability to monitor the following functions

- Discharge air pressure
 - Element outlet temperature
 - Compressor status
 - Motor overload status
- Loaded hours
 - Running hours
 - Energy consumption

Full Feature Intelligent Controller

- Both touch screen or push-button navigation
- Precise Process Control: Loading, Unloading & Speed Regulation
- Monitor the operation and condition of the air compressor
- Provides safety monitoring, protection and service alerts
- Built in networking capabilities and external monitoring
- Customizable Working Modes and Scheduled Tasks

Compressor protective functions shall include

- Emergency stop
 - High discharge temperature
 - High discharge pressure
- Motor overload
 - Service warnings
 - Oil filter clogging

Optional features

- Package pre-filter
- Food grade Oil