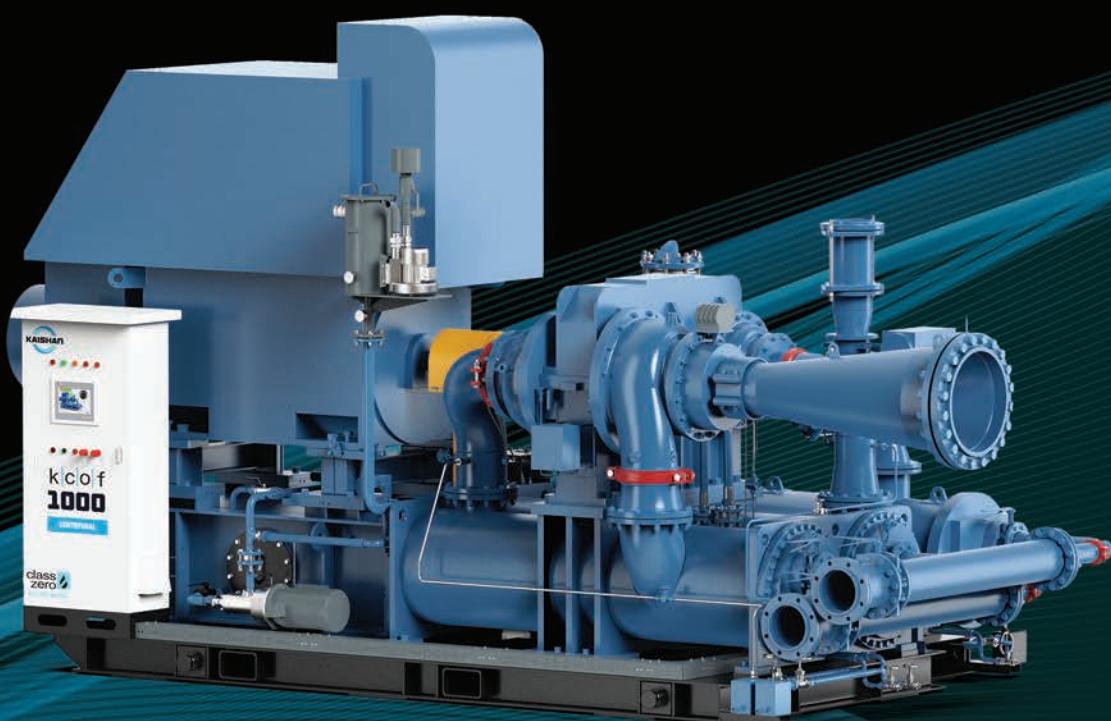


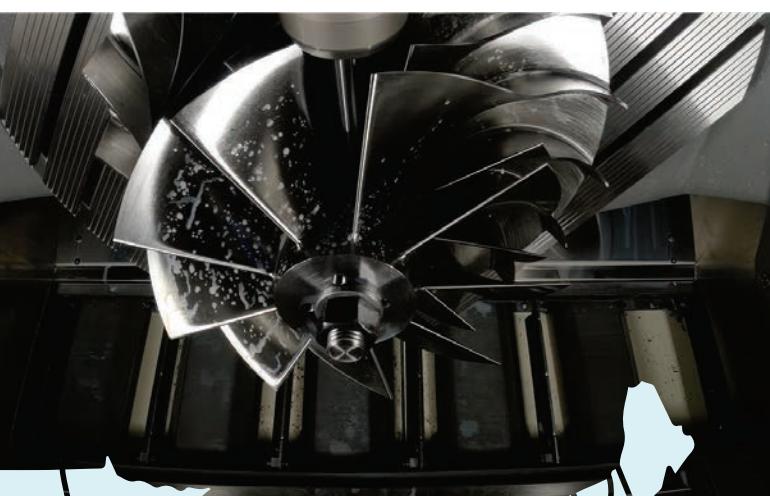
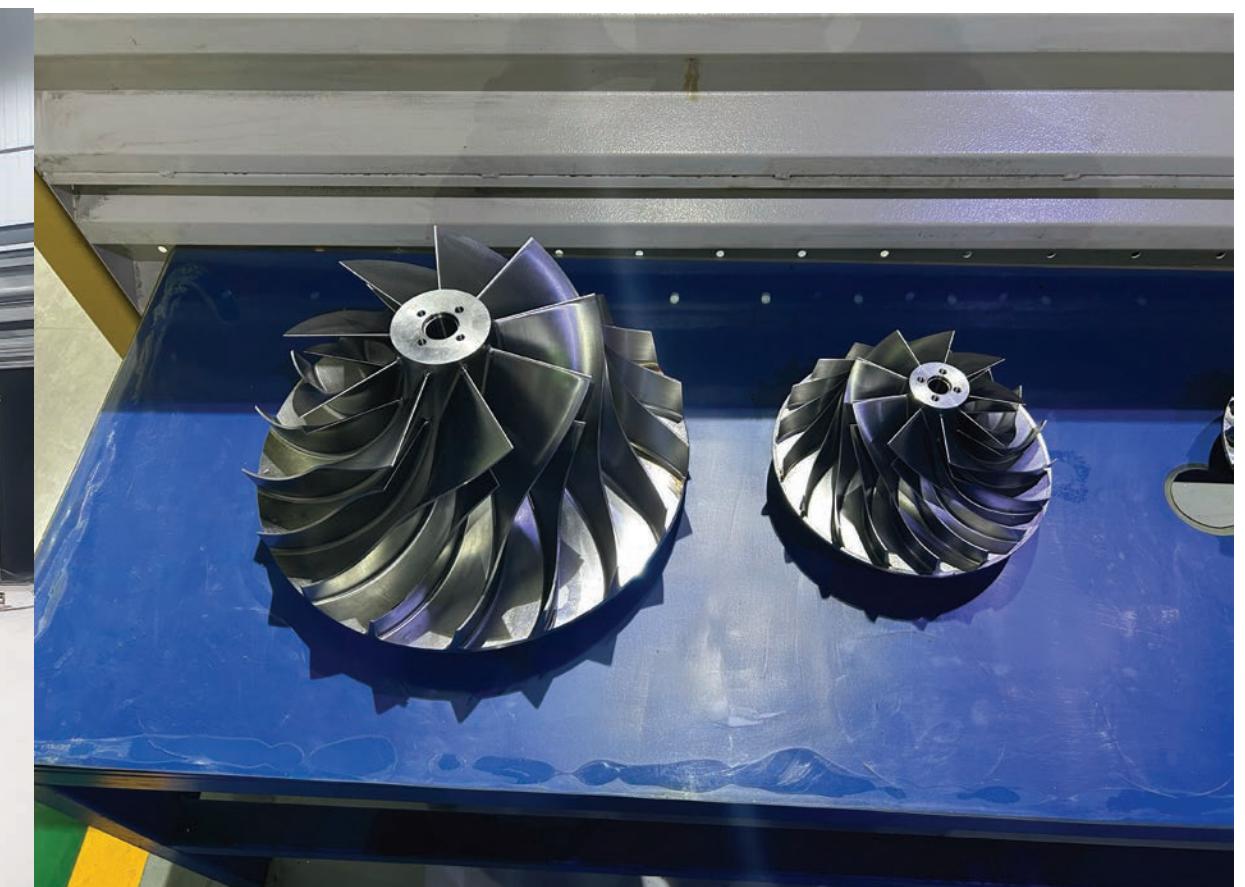
WORLD CLASS · EFFICIENCY · RELIABILITY

# k|c|o|f

OIL FREE CENTRIFUGAL



Kaishan Compressor USA



## KAISHAN USA'S HEADQUARTER FEATURES

- Oil Free Rotary Screw Design Center for the entire Kaishan Group
- 60Hz Center of Excellence
- 100+ Years of Engineering Design Experience
- State of the Art Machining Centers
- Quality Focused
- Cutting-Edge, Lean Manufacturing Techniques

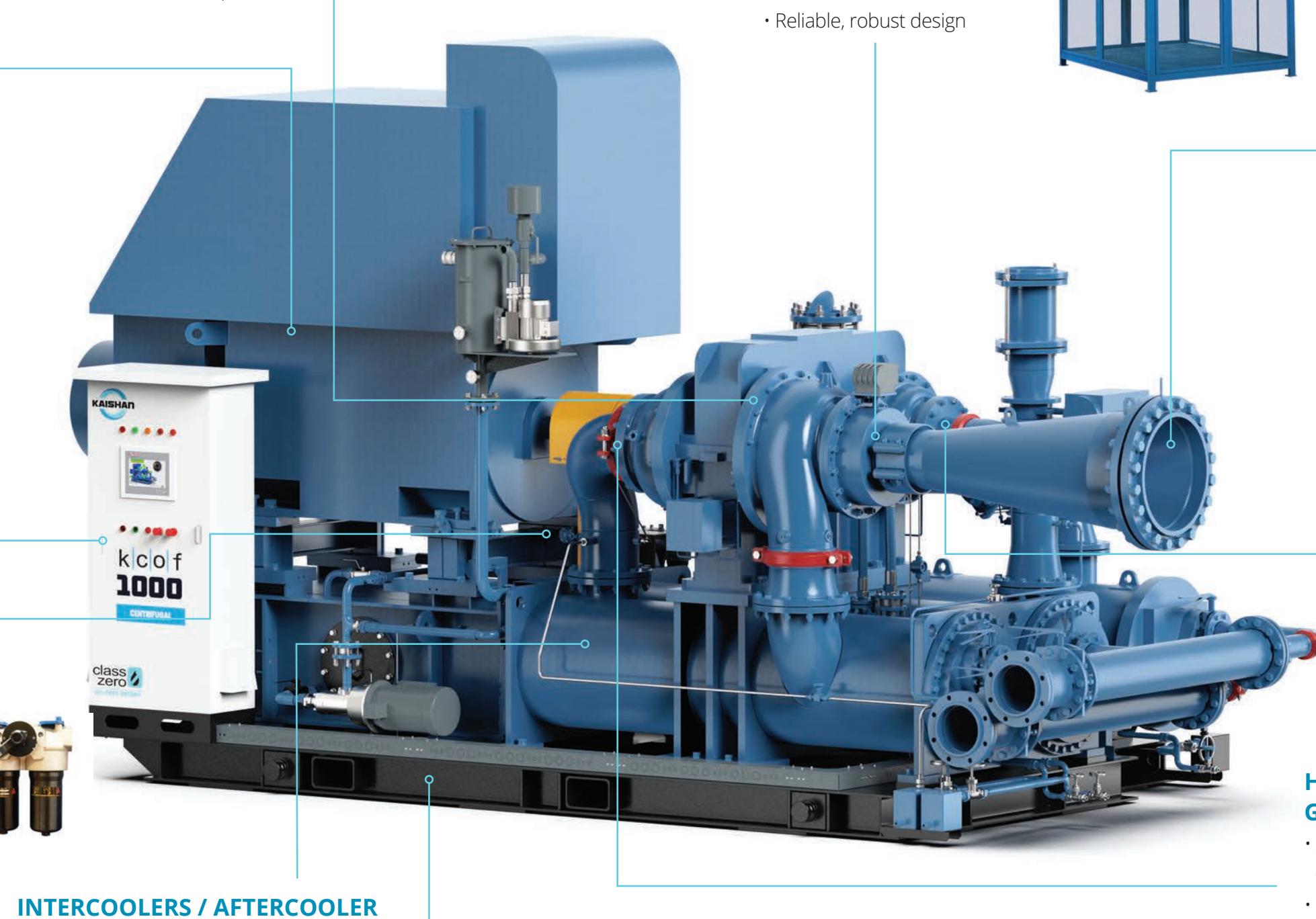


## MOTOR

- Multiple Motor Enclosure options including IEC TEFC IE3 Premium Efficiency – IP55 protects against dust, chemicals and humidity
- Flexible Direct coupled

## THRUST COLLAR DESIGN

- Thrust loads generated by the impeller shaft running at high speed is transmitted with Thrust Collars to the bullgear running at low speed.



## CONTROLS

- Critical operating parameters monitored and controlled for safe operation
- Peer-to-Peer Networking and Load Sharing on multiple machine installations
- Multi-lingual capabilities
- USA designed and supported
- Alarms and maintenance reminders

## SERVICABILITY

- Minimal service parts
- Minimal service time
- All PMs parts easily accessible
- Dual Oil Filter for easy change without shutting down machine

## INLET GUIDE VANES

- Quick response to system changes
- Up to 9% energy savings during turndown
- Constant Pressure Control
- Reliable, robust design



## INLET FILTER / OPTIONS

- High flow / low pressure drop
- Clean fresh air to the inlet
- Noise reduction
- 2-stage Panel Type Filters or option for Kaishan's "Self-Cleaning" Inlet Air Filter

## DURABLE, LONG LIFE BEARINGS

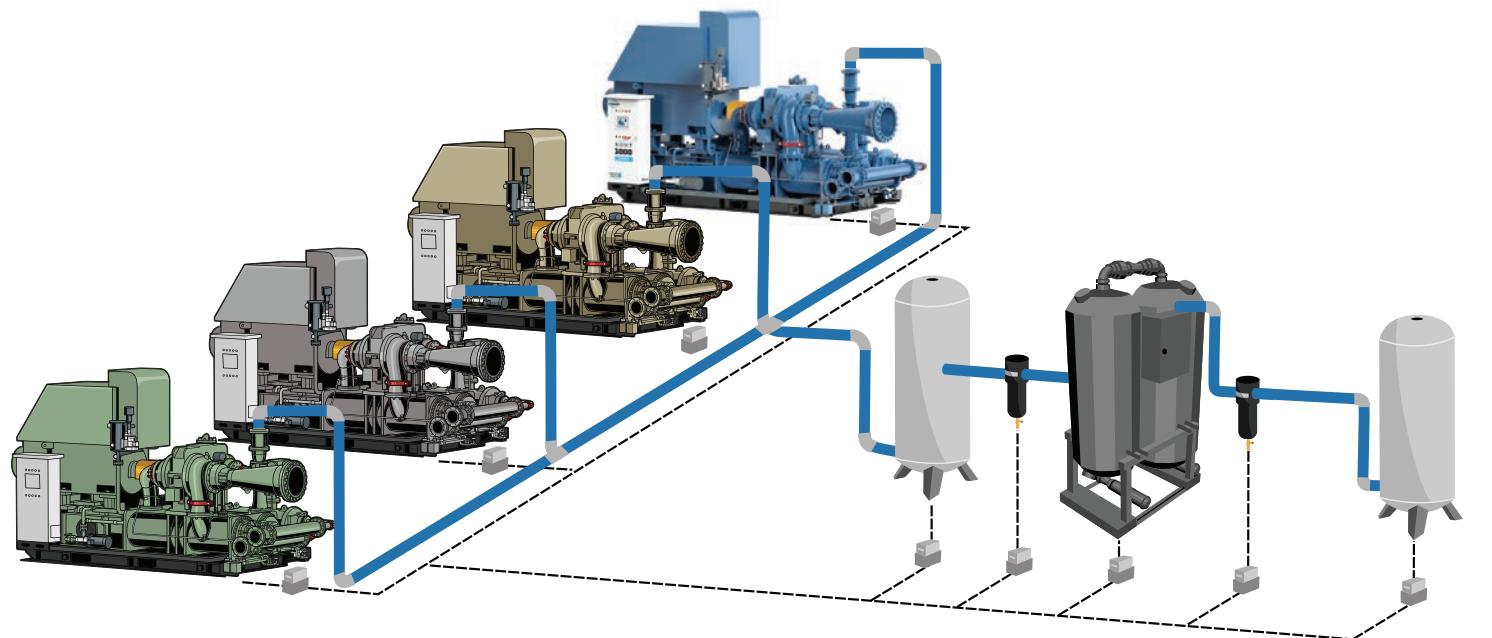
- Tilting Pad Journal Bearings ensure stable rotor operation under various operating conditions
- Horizontally split design

## HORIZONTALLY SPLIT GEARBOX DESIGN

- AGMA 13 Grade, Unidirectional Helical Gears
- Easy access for inspection of gears, bearings and seals
- Seal design ensures zero oil in compressed air

## PACKAGED LAYOUT

- Packaged concept for ease of shipment and less installation work in the field.
- Packaged designed for sound attenuation options

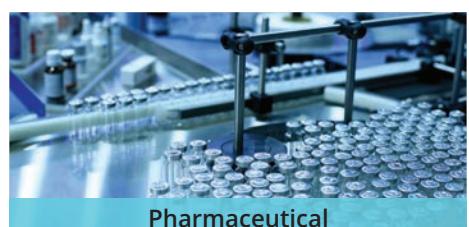


## TECHNICAL DATA: 3-STAGE UNITS (2-STAGE AND 4-STAGE AS OPTIONS)

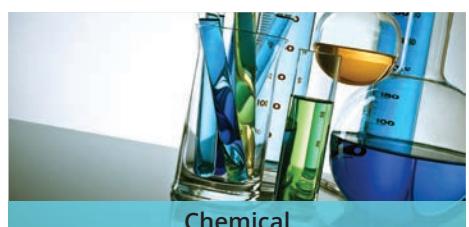
MODEL OR FRAME	POWER kW	POWER HP	PRESSURE BarG	PRESSURE PSIG	FLOW M3/min	FLOW CFM	WEIGHT lbs	WEIGHT kgs	DIMENSIONS (LxWxH)	
									in	mm
KCOF 600	200 to 450	250 to 600	5 to 11	72.5 to 160	40-70	1,400-2,500	19,000	8,600	174x85x100	4,420x2,159x2,540
KCOF 800	400 to 650	500 to 900	5 to 11	72.5 to 160	70-100	2,500-3,500	21,500	9,700	197x71x121	5,003x1,803x3,073
KCOF 1000	560 to 800	800 to 1,100	5 to 11	72.5 to 160	100-140	3,500-4,900	31,000	14,179	210x75x123	5,334x1,905x3,124
KCOF 1500	710 to 1,120	900 to 1,500	5 to 11	72.5 to 160	140-195	4,900-6,900	32,000	14,415	224x79x146	5,689x2,006x3,708
KCOF 2000	900 to 1,600	1,250 to 2,250	5 to 11	72.5 to 160	195-290	6,900-10,250	40,000	18,465	251x79x146	6,375x2,006x3,708
KCOF 3000	from 1,600	from 2,250	5 to 11	72.5 to 160	290-380	10,250-13,450	per project			
KCOF 4000	from 2,200	from 3,000	5 to 11	72.5 to 160	380-565	13,450-20,000	per project			
KCOF 6000	from 3,280	from 4,400	5 to 11	72.5 to 160	565-800	20,000-28,000	per project			
KCOF 8000	from 4,600	from 6,200	5 to 11	72.5 to 160	800-1,500	28,000-53,000	per project			



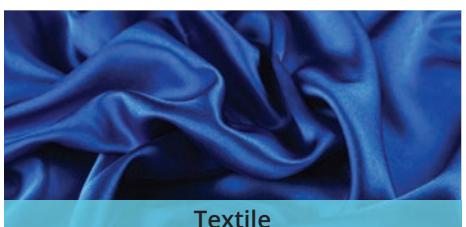
Food and Beverage



Pharmaceutical



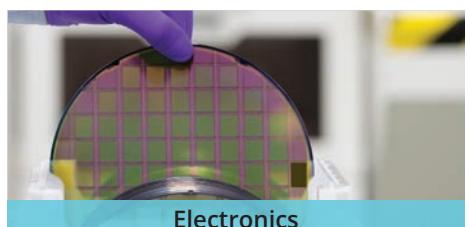
Chemical



Textile



Utilities



Electronics

## KAISHAN KCOF OFFERS UNMATCHED CONTROLS INTEGRATION FLEXIBILITY

### Controls Flexibility

Whether an existing installation with a current controls platform or simply by request of the customer for a specific controls integration platform, Kaishan KCOF offers unmatched controls integration flexibility. Kaishan KCOF has partnered with a variety of USA field-proven, designed, and supported controls platforms to match the customer's needs and requests. Kaishan performs this integration without the customary engineering charges or penalties common in the market.



## AIR QUALITY STANDARDS ISO 8573.1

CLASS	Concentration total oil (aerosol, liquid, vapor) mg/m <sup>3</sup>
0	As specified by the equipment user or supplier and more stringent than class 1
1	< 0.01
2	< 0.1
3	< 1
4	< 5

## KAISHAN KCOF STANDARD CONTROL PACKAGE

### TurboLogix® BASIC

- Allen-Bradley CompactLogix hardware standard
- Open software architecture
- Modbus & Allen-Bradley communication included
- 10.5" color touch-screen operator interface standard
- Optional 15" operator interfaces available
- Extensive data trending/event logs plus backup
- Maintenance timers
- Enhanced Cascade PID Inlet Control
- Energy saving compensated turn-down
- Fully field-configurable
- Simplified installation and startup
- DCS-friendly
- Enhanced reliability
- TotalCare Connect Cloud Compatible



### TurboLogix® ENGINEERED

- **Includes all of the features of TurboLogix® BASIC**
- Customized design panel to fit your needs and all environments
- Allen-Bradley ControlLogix upgrade hardware available
- Replace or integrate with current or obsolete system

### LOADSHARING POWER SAVINGS

- Energy saving "throttle alignment" to provide utmost "inlet guide" savings from all units
- "Wakeless" system testing to provide non-disruptive removal of compressors from a system
- "Peer-to-Peer" design – no external black box or special hardware required
- Ethernet-based communication network
- Automated management system (start/stop, load/unload) of compressors
- Compatible with electric and turbine driven centrifugal compressors
- Fastest installation and setup anywhere in the world

### ENHANCED PERFORMANCE MONITORING PACKAGE

- Hardware/software enhancement to pinpoint issues that cause frequent downtime
- Features include performance measurements for electricity usage/costs, inlet and bypass valves performance, compressor performance loss due to dirty inlet filters, oil pressure loss due to dirty oil filters and maintenance alerts
- Highly desirable upgrade for preventative maintenance, enhanced troubleshooting, field performance analysis and cloud-based analytics
- Helps minimizes field service calls and prevents downtime – saving customers money



[info@KaishanUSA.com](mailto:info@KaishanUSA.com)  
15445 Industrial Park Dr. · Loxley, AL 36511 USA  
+1 251.257.0773  
[KaishanUSA.com](http://KaishanUSA.com)