



KOMTER EQUIPMENTS PVT LTD



THE AIR PERFECTION
KOMTER ROTARY SCREW
AIR COMPRESSOR
VARIABLE SPEED DRIVE
PM - MOTOR
AIR COMPRESSOR



Features and Advantages





Cooler
High quality aluminum material, High efficiency less noise, ensure the perfect radiating effect.



Oil Filter
KOMTER filters ensure longer working life and save the maintenance time and cost.



Stainless Steel Pipes
High and low temperature resistant, high pressure resistant.



Air Filter
Two-stage dust removal and filtering system with efficiency of up to 99.9% even in heavy-duty environment.



Compressed Air Vessel
Reduction of pressure drops and energy costs, quality air with low oil content.



Electric Motor
Premium efficiency Totally TEFC IP54/IP55 motor (Class F insulation) protects against dust and chemicals etc.



Flexible Intake Valve
Adjust valve opening 60%-100% big capacity, low pressure drop; No oil spill when stop suddenly



Energy-saving 1:1 Direct Driven Design
German KTR brand maintenance-free coupling makes the motor drive the air end without transmission loss.



Air End
Original German air end, advanced SAP profile design. Ratio 5:6

INTEGRATED MICROPROCESSOR CONTROLLER

Easy to use and maintenance free. Constant readout of pressure and temperature. Selective readout of all operating and maintenance parameters. Safety shutdown. Provides 24 hours automatic start-stop operation. Load-lag and sequencing with multiple compressors.



RELIABLE AUTOMATIC CONTROL BOX

Electronic components of the IP55 automatic control box such as relays, contactors are from named brand - Siemens / Schneider - electric to provide safe and reliable compressor control solution. Advanced microprocessor based PLC controller is used to adjust compressor loading according to system air demand automatically. Versatile fault diagnosis and protection functions to assure stable and reliable operation of the compressor



MODEL	FAD CFM	Bar	Psi	HP	Kw	dB/A	Connection BSP	LxWxH	Kg
KS 5-7	19.5	7	100	5	4	64	1/2"	1050*750*830	210
KS 5-10	16	10	145	5	4	64	1/2"	1050*750*830	210
KS 5-12	13	12	175	5	4	64	1/2"	1050*750*830	210
KS 7-7	35	7	100	7.5	5.5	64	3/4"	1050*750*830	215
KS 7-10	25	10	145	7.5	5.5	64	3/4"	1050*750*830	215
KS 7-12	17	12	175	7.5	5.5	64	3/4"	1050*750*830	215
KS 10-7	42	7	100	10	7.5	64	3/4"	1050*750*830	223
KS 10-10	34	10	145	10	7.5	64	3/4"	1050*750*830	223
KS 10-12	28	12	175	10	7.5	64	3/4"	1050*750*830	223
KS 15-7	60	7	100	15	11	66	1"	1050*750*1000	350
KS 15-10	46	10	145	15	11	66	1"	1050*750*1000	350
KS 15-12	39	12	175	15	11	66	1"	1050*750*1000	350
KS 20-7	88	7	100	20	15	66	1"	1050*750*1000	360
KS 20-10	75	10	145	20	15	66	1"	1050*750*1000	360
KS 20-12	56	12	175	20	15	66	1"	1050*750*1000	360
KS 25-7	116	7	100	25	18	68	1"	1380*850*1160	450
KS 25-10	96	10	145	25	18	68	1"	1380*850*1160	450
KS 25-12	85	12	175	25	18	68	1"	1380*850*1160	450
KS 30-7	134	7	100	30	22	68	1"	1380*850*1160	460
KS 30-10	106	10	145	30	22	68	1"	1380*850*1160	460
KS 30-12	92	12	175	30	22	68	1"	1380*850*1160	460
KS 40-7	185	7	100	40	30	68	15"	1470*100*1380	610
KS 40-10	160	10	145	40	30	68	15"	1470*100*1380	610
KS 40-12	142	12	175	40	30	68	15"	1470*100*1380	610
KS 50-7	238	7	100	50	37	70	15"	1470*100*1380	630
KS 50-10	200	10	145	50	37	70	15"	1470*100*1380	630
KS 50-12	178	12	175	50	37	70	15"	1470*100*1380	630
KS 60-7	300	7	100	60	45	70	15"	1470*100*1380	800
KS 60-10	265	10	145	60	45	70	15"	1470*100*1380	800
KS 60-12	247	12	175	60	45	70	15"	1470*100*1380	800
KS 75-7	370	7	100	75	55	74	2"	1900*1250*1670	1130
KS 75-10	301	10	145	75	55	74	2"	1900*1250*1670	1130
KS 75-12	270	12	175	75	55	74	2"	1900*1250*1670	1130
KS 100-7	495	7	100	100	75	74	2"	1900*1250*1670	1250
KS 100-10	415	10	145	100	75	74	2"	1900*1250*1670	1250
KS 100-12	346	12	175	100	75	74	2"	1900*1250*1670	1250



User Benefits

Minimal energy costs

- More compressed air for less energy thanks to newest generation of screw elements
- Significant energy savings through IE4 Super Premium Efficiency motor
- Minimal losses thanks to integrated direct drive transmission
- Instant savings bought by imperium variable speed technology vs. traditional fixed speed compressors.

Userfriendly operation & Maintenance

- Large 4.3" graphical controller with touchscreen
- Integrated connectivity helps you optimize and save energy
- All consumables are at easy reach for fast service and minimal downtime of your compressor
- The coolers are mounted on gliding rails and can easily be dragged out and cleaned, making service a one-person job
- Low noise radial fan as standard

Reliable productivity & operational efficiency

- German designed interior permanent magnet (iPM) motor with innovative oil-cooling technology for optimal cooling at all speeds and conditions
- In-house designed Imperium inverter, tailor-made for screw compressor applications.
- Maintenance-free components enable higher uptime and increased productivity

Simple installation

- Compact and all in one system Innovative design
- Easy and full protected transport Placement with forklift (2 lifting points) or transpallet (1 lifting point)
- No special foundation needed

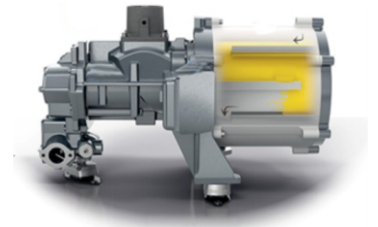
A peace of mind investment

- Quality filtration with long lifetime protects internal components and increases lifetime
- Packaged in a proven canopy design with already thousands of installations around the globe.

KOMTER

- Variable Speed • Direct Driven
- Interior Permanent Magnet Motor

Compressed air drives your processes and with it the operational efficiency and performance of your company. With this principle in mind. KOMTER has designed a range of variable speed, oil-injection screw compressors with iPM motor technology to offer your business a compressed air solution that adds value and saves you money at the same time.



Why energy efficiency?

Energy costs represent about 70% of the total operating cost of your compressor over a 5-year period. That is why efficiently reducing the energy consumption of your compressed air installation should be a major focus.

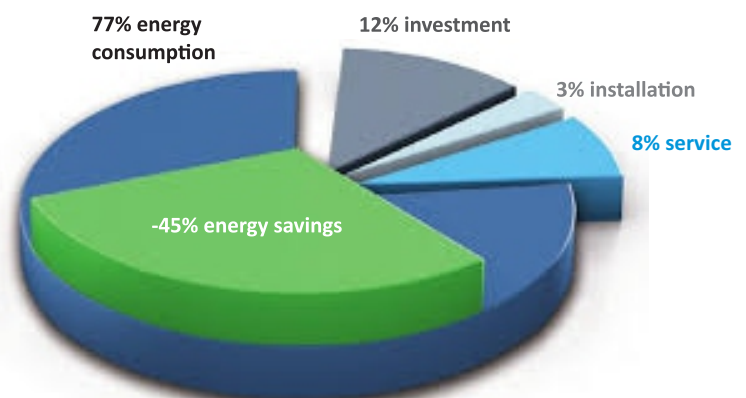
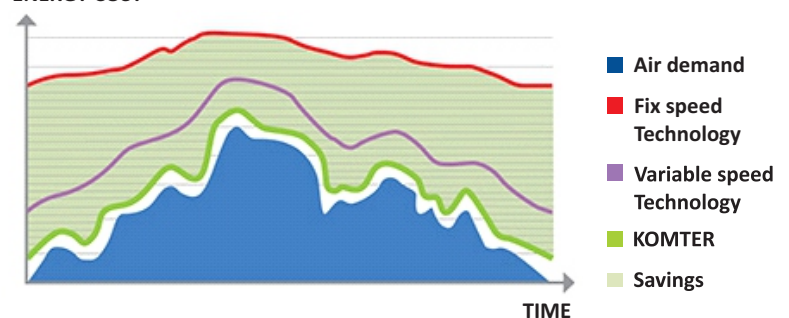
Why Variable Speed?

As a majority of customers have a variable demand for compressed air, a variable speed compressor is superior vs. a fixed speed compressor in terms of energy savings by perfectly matching air supply to air demand and avoiding unload losses.

Why KOMTER?

The KOMTER range combines variable speed technology with our new and highly efficient drive train with iPM motor technology and evolved the energy efficiency of variable speed compressors to a new level, resulting in energy savings of up to 45%.

ENERGY COST



TECHNICAL SPECIFICATION

MODEL	FAD CFM	Bar	Psi	HP	Kw	dB/A	Connection BSP	LxWxH	Kg
KPM - 10	0-40	8	116	10	7.5	56	3/4"	780 x 600 x 1020	215
KPM - 20	0-80	8	116	20	15	56	1"	1050 x 700 x 1150	335
KPM - 30	0-127	8	116	30	22	60	1"	1300 x 880 x 1160	465
KPM - 50	0-219	8	116	50	37	68	1.5"	1460 x 1025 x 1380	630
KPM - 75	0-353	8	116	75	55	68	2"	1900 x 1250 x 1600	1130
KPM - 100	0-460	8	116	100	75	70	2"	1900 x 1250 x 1600	1230

Features and Advantages



Control Panel

Smart touch screen design, multi-language LCD keep the outstanding performance.



Air filter

Two-stage dust removal and filtering system with efficiency of up to 99.9% even in heavy-duty environments.

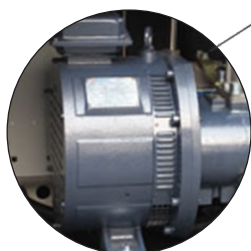


Compressed Air Vessel

Reduction of pressure drops and energy costs, quality air with low oil content.

Permanent Magnet Synchronous Motor

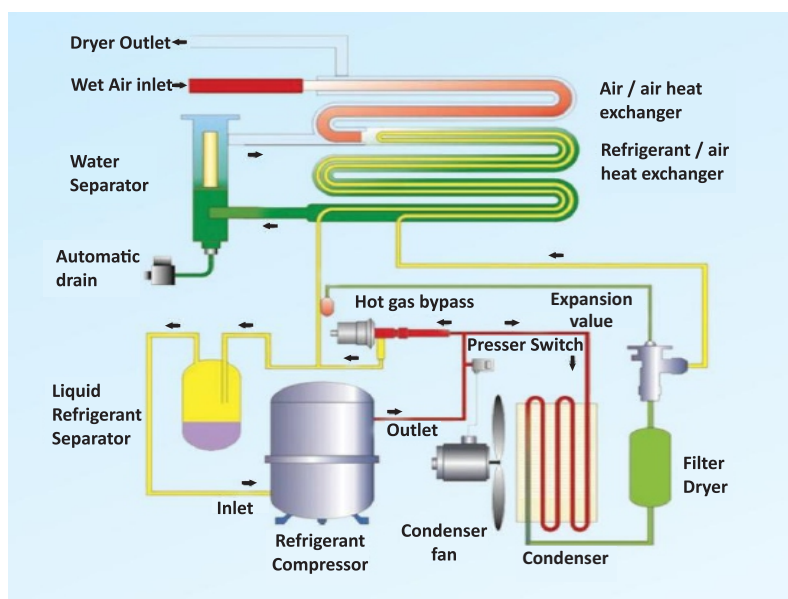
No bearing. No lubricant and no maintenance, 100% transmission.



Air End

Original German air end, state-of-the-art screw element.





PRODUCT FEATURES

Heat Exchanger

- Our evaporator is a CO-AXIAL Heat Exchanger.
- It Performs as a Pre-cooler and Evaporator
- Our design maximizes exchanger efficiency by using Copper tubes in a coiled TUBE-IN-TUBE arrangement.
- Heat exchangers are fully encapsulated by PUF insulation to prevent the loss of cooling effect.



Refrigeration Compressor

- Rugged & Reliable hermetically sealed Reciprocating / Scroll compressor
- Suitable for eco friendly gases
- Less noise level
- Low power consumption
- Better COP



Thermostatic Expansion Device

- Customized selection according to cooling load and operation condition
- Ensures constant dew point on varying load conditions
- Sensible to suction pressure
- Sensible to both suction pressure and temperature



Temperature Controller

- Dedicated Programmed micro controller, integrated with temperature controllers and sensors to indicate the dew point, inlet & condensing temperature with following alarms
- On delay time to protect the compressor due to sudden failure



Water Cooled Condenser

- Aluminum plate finned cross flow Heat exchanger Optimized fin density considering Heat transfer and fan power.
- Spigot construction to reduce pressure across condenser and hence reduced compressor power

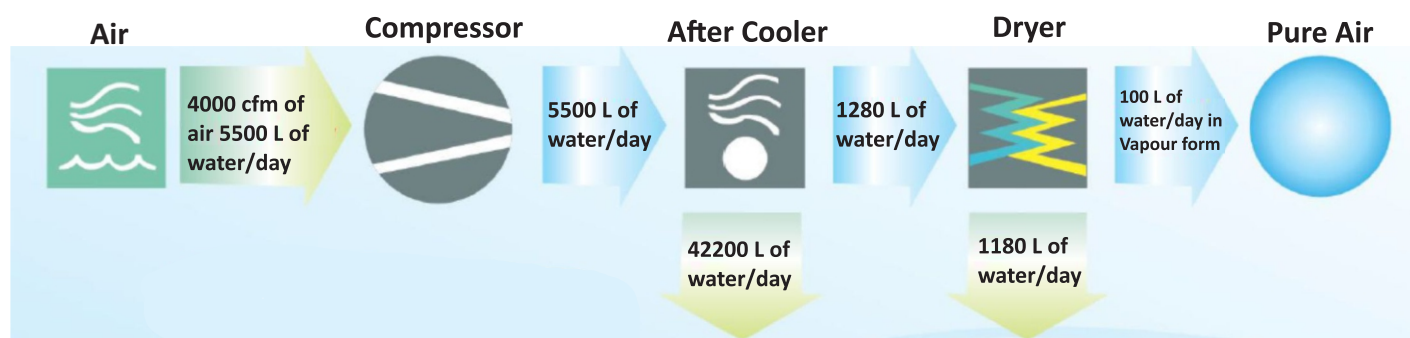


Hot Gas Bypass Valve

- It is fitted in between the compressor discharge and the evaporator.
- Evaporator temperature drops below 5°C
- HGV feeds the hot gas from the compressor outlet to the evaporator
- Optional to be provided manually and automatically



How moisture is removed from compressed air?

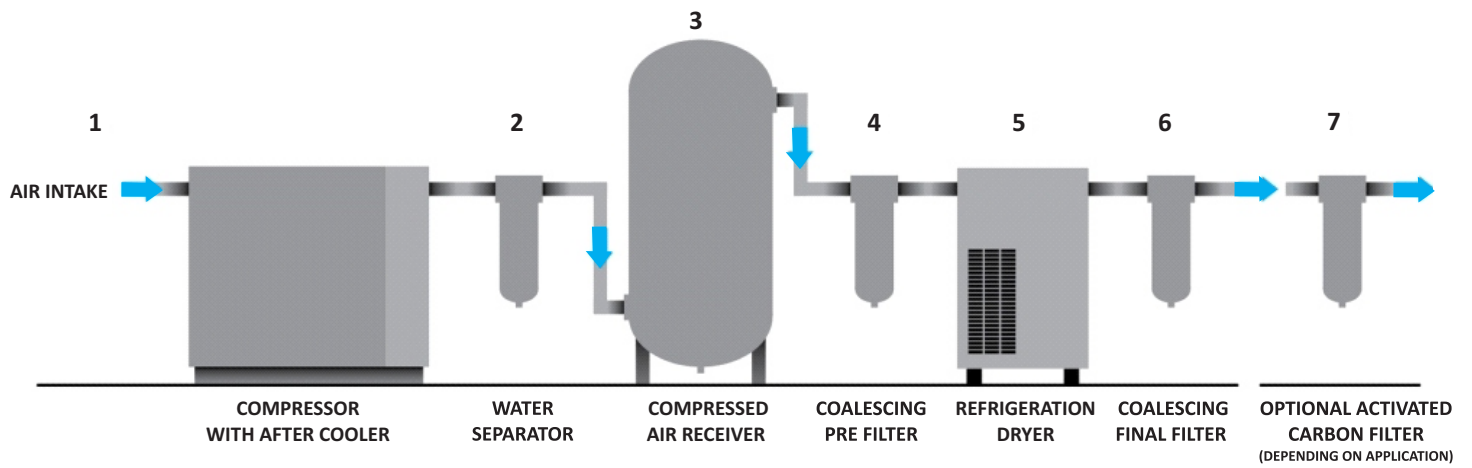


1180 liters of water/day is thrown additionally to the compressed air network if not dried by a Refrigerant Dryer; this may result in damaged Pneumatic Equipment and Contaminated End Products!

TECHNICAL SPECIFICATION

MODEL	CFM	CONNECTION BSPT	L x w x H	POWER SUPPLY	KG
KD10	10	1/4"	300X300X350	230/1/50	25
KD15	15	1/4"	400X400X560	230/1/50	36
KD20	20	3/4"	400X400X560	230/1/50	38
KD40	40	3/4"	400X400X560	230/1/50	40
KD60	60	3/4"	550X550X700	230/1/50	50
KD80	80	1"	550X550X700	230/1/50	65
KD100	100	1"	550X550X700	230/1/50	70
KD125	125	1"	550X550X700	230/1/50	80
KD150	150	1 1/2"	650X650X925	230/1/50	90
KD200	200	1 1/2"	650X650X925	230/1/50	100
KD250	250	1 1/2"	650X650X925	230/1/50	110
KD300	300	2"	800X800X1350	230/1/50	140
KD400	400	2"	800X800X1350	230/1/50	160
KD500	500	2"	800X800X1350	230/1/50	190
KD600	600	2"	800X800X1350	230/1/50	200

INSTALLATION LAYOUT



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