

**DIRECT
COUPLING**

PROFESSIONAL SERIES

Air technology system.

KME VSD 7 - 15 kW
ROTARY SCREW COMPRESSORS
VARIABLE SPEED DRIVE



KTCTM
KOMPAKT TECHNOLOGY COMPRESSOR

KME VSD is the professional range of **DIRECT TRANSMISSION** compressors with **INVERTER**. These compressors ensure great reliability, compactness, energy saving and low induced rotation noise in all working conditions, making them unique in their category.

KME VSD is a direct-driven compressors with 1:1 ratio meaning that the air-end and the motor are directly connected by means of an elastic joint thus making both units rotating at the same speed.

This configuration results in less energy consumption, maintenance cost and also noise. Reduced footprint and simplified installation are a winning card to solve space problems. Cost savings are remarkable and there are no added installation charges for dryers and tanks being already preassembled, thus eliminating potential air leaks from connection piping.



KME VSD SERIES

Characteristics

- ELECTRONIC CONTROLLER K-TRONIC 10
- LATEST-GENERATION ELECTRIC MOTOR "MADE IN ITALY"
- TOP CLASS FREQUENCY INVERTER
- HIGH EFFICIENCY AND LOW NOISE COOLING ELECTRIC FAN
- DIRECT DRIVE 1:1 WHIT ELASTIC COUPLING ELEMENT
- PACK SMART V76C - V90C
- COMPLETE RANGE WITH 4 MODULAR CONFIGURATIONS

COMPACT AIR-ENDS INTEGRATED

This Top-notch pumping system integrated unit is extremely compact and is composed of the following components:

- Oil-injected air-end
- Minimum pressure valve
- Thermostatic valve
- Intake valve
- Separator Tank



MODULAR RANGE

Thanks to its high versatility, the KME VSD series is available in 4 different models:

- grounded
- with refrigeration dryer
- tank mounted (270/500 liters according to size)
- fully features



PACK SMART V90C

ELECTRONIC CONTROLLER

Based on direct, user-friendly reading, it manages all compressor functions through a microprocessor: safety alarms (oil temperature, electric motor, cooling fan, maintenance warnings), main parameters setup (times, pressures, data entry) and functions enabling (remote control), automatic restart after power blackout, communication signal with external devices like PLC and others.



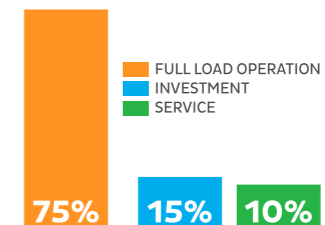
MOTOR CONTROL WITH INVERTER



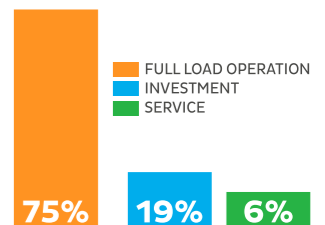
ENERGY SAVING COMPARISON BETWEEN A VSD AND A FIXED SPEED UNIT (LOAD-UNLOAD)

The VSD unit allows the compressor to be very flexible and efficient in responding to changes in air demand. The required air demand is fulfilled through the inverter that constantly adjusts the speed of the electric motor. The real air flow and pressure values are constantly monitored through the electronic controller to guarantee the attainment of the pre-set values. The variable speed units guarantees more flexibility, lower energy consumption and less mechanical stress compared to the load/unload (on/off) version. The VSD unit setting can force the standby mode when the inverter has reached the lowest rotation speed.

FIXED SPEED ROTARY SCREW COMPRESSOR TO 75% AT FULL LOAD.



VARIABLE SPEED ROTARY SCREW COMPRESSOR TO 75% AT FULL LOAD.



**KME VSD SERIES
TECHNICAL FEATURES**



High performances pre-disoleing receiver tank

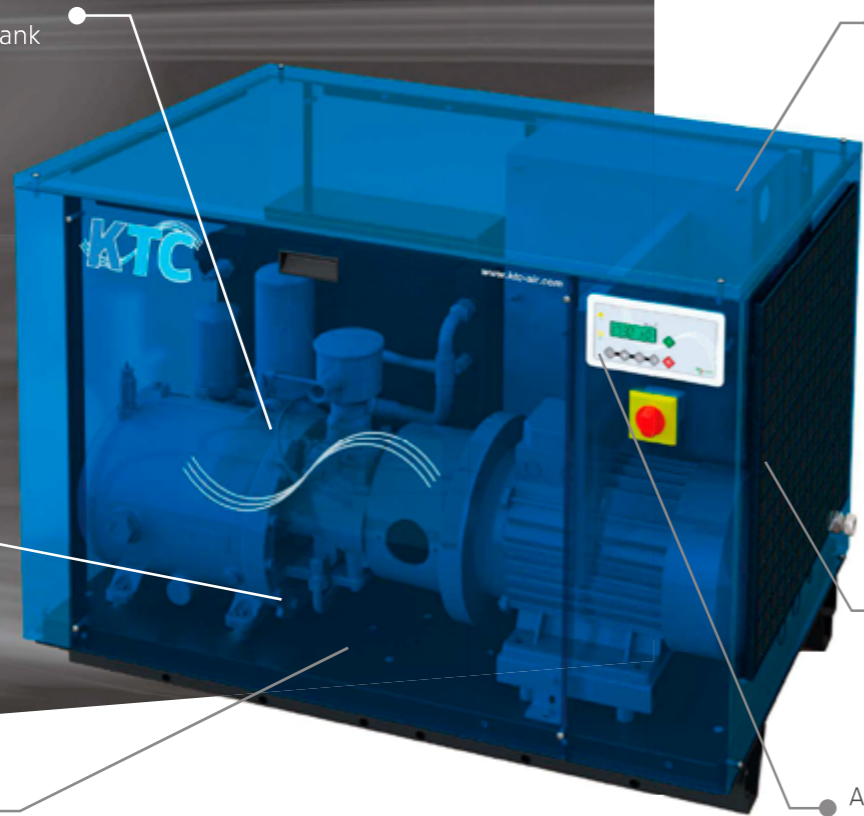
Maximum efficiency in the smallest space

Fast and easy maintenance

Prefilter panels

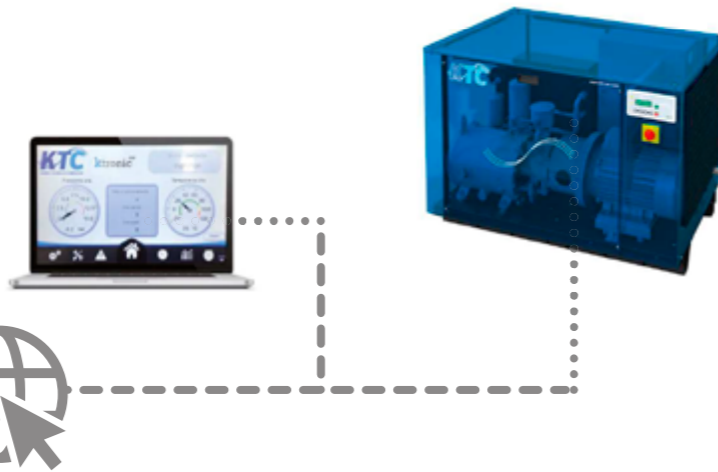
Direct coupling 1:1 elastic element

Advanced electronic controller K-tronic10



INDUSTRY 4.0 READY

Ready for Industry 4.0: the compressor can be connected to a local network or remotely via Internet.



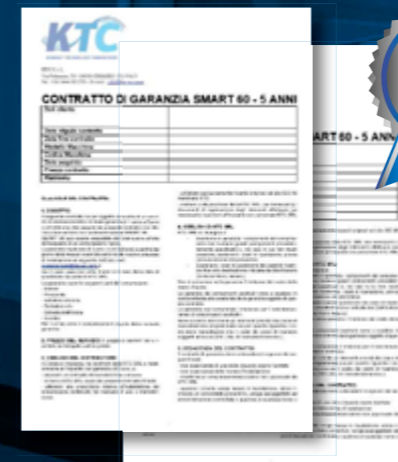
**ORIGINAL KTC
SPAREPARTS**

All external panels of the compressor are easily removable allowing easy access to all the components requiring routine maintenance
Choose only KTC's original spare parts to get the best performances for your compressor!



EXTENDED WARRANTY

Choose our SMART60 package to extend your warranty period up to 5 years!
This is strongly suitable for where compressed air is an important part of your Company's processes.
Our specific scheduled maintenance program - with dedicated spare parts kit- will ensure the best compressor performances and reliability.



Code	Model	Power	Screw	Tank	Pressure	Min Air Flow*	Max Air Flow*	Noise L.**	Voltage	Connection	Dimensions	Weight
EAN												
	Hp	Gal	Psi	C.F.M.	C.F.M.	dB[A]	BSP	L x W x H (cm)	Lbs			

KME INVERTER 7÷15 grounded

171051001C-01B	KME 7 VSD	10	V75C	/	116	13,1	42,9	75	400/50/3	1/2 Gas	89x66x65	342,8
171052001C-01B					145	12,4	37,1					
171053001C-01B					188	14,1	29,3					
171061001-01B	KME 11 VSD	15	V90	/	116	15,2	63,9	75	400/50/3	3/4 Gas	114x78x82	482,8
171062001-01B					145	19,1	53,3					
171063001-01B					188	22,6	42,4					
171071001-01B	KME 15 VSD	20	V90	/	116	14,5	82,3	77	400/50/3	3/4 Gas	114x78x82	500,4
171072001-01B					145	13,8	70,6					
171073001-01B					188	18,7	56,5					

KME INVERTER 7÷15 grounded with dryer

171051002C-01B	KME 7 VSD E	10	V75C	/	116	13,1	42,9	75	400/50/3	1/2 Gas	127x66x65	412,3
171052002C-01B					145	12,4	37,1					
171053002C-01B					188	14,1	29,3					
171061002-01B	KME 11 VSD E	15	V90	/	116	15,2	63,9	75	400/50/3	3/4 Gas	148x78x82	556,7
171062002-01B					145	19,1	53,3					
171063002-01B					188	22,6	42,4					
171071002-01B	KME 15 VSD E	20	V90	/	116	14,5	82,3	77	400/50/3	3/4 Gas	148x78x82	578,7
171072002-01B					145	13,8	70,6					
171073002-01B					188	18,7	56,5					

* Performances measured according to ISO 1217, annex C, latest edition.
 ** Noise level measured according to ISO 2151.

Code	Model	Power	Screw	Tank	Pressure	Min Air Flow*	Max Air Flow*	Noise L.**	Voltage	Connection	Dimensions	Weight
EAN												
	Hp	Gal	Psi	C.F.M.	C.F.M.	dB[A]	BSP	L x W x H (cm)	Lbs			

KME INVERTER 7÷15 on tank

171051011C-01B	KME 7 VSD 270	10	V75C	71,4	116	13,1	42,9	75	400/50/3	1/2 Gas	156x66x123	520,3
171052011C-01B					145	12,4	37,1					
171053011C-01B					188	14,1	29,3					
171051014C-01B	KME 7 VSD 500	10	V75C	132	116	13,1	42,9	75	400/50/3	1/2 Gas	196x66x132	615,1
171052014C-01B					145	12,4	37,1					
171053014C-01B					188	14,1	29,3					
171061003-01B	KME 11 VSD 270	15	V90	71,4	116	15,2	63,9	75	400/50/3	3/4 Gas	156x78x140	660,3
171062003-01B					145	19,1	53,3					
171063003-01B					188	22,6	42,4					
171061005-01B	KME 11 VSD 500	15	V90	132	116	15,2	63,9	75	400/50/3	3/4 Gas	204x78x149	755,1
171062005-01B					145	19,1	53,3					
171063005-01B					188	22,6	42,4					
171071003-01B	KME 15 VSD 270	20	V90	71,4	116	14,5	82,3	77	400/50/3	3/4 Gas	156x78x140	677,9
171072003-01B					145	13,8	70,6					
171073003-01B					188	18,7	56,5					
171071005-01B	KME 15 VSD 500	20	V90	132	116	14,5	82,3	77	400/50/3	3/4 Gas	204x78x149	772,7
171072005-01B					145	13,8	70,6					
171073005-01B					188	18,7	56,5					

KME INVERTER 7÷15 on tank with dryer

171051013C-01B	KME 7 VSD 270/E	10	V75C	71,4	116	13,1	42,9	75	400/50/3	1/2 Gas	156x66x123	589,7
171052013C-01B					145	12,4	37,1					
171053013C-01B					188	14,1	29,3					
171051015C-01B	KME 7 VSD 500/E	10	V75C	132	116	13,1	42,9	75	400/50/3	1/2 Gas	196x66x132	684,5
171052015C-01B					145	12,4	37,1					
171053015C-01B					188	14,1	29,3					
171061004-01B	KME 11 VSD 270/E	15	V90	71,4	116	15,2	63,9	75	400/50/3	3/4 Gas	156x78x140	734,1
171062004-01B					145	19,1	53,3					
171063004-01B					188	22,6	42,4					
171061006-01B	KME 11 VSD 500/E	15	V90	132	116	15,2	63,9	75	400/50/3	3/4 Gas	204x78x149	828,9
171062006-01B					145	19,1	53,3					
171063006-01B					188	22,6	42,4					
171071004-01B	KME 15 VSD 270/E	20	V90	71,4	116	14,5	82,3	77	400/50/3	3/4 Gas	156x78x140	756,2
171072004-01B					145	13,8	70,6					
171073004-01B					188	18,7	56,5					
171071006-01B	KME 15 VSD 500/E	20	V90	132	116	14,5	82,3	77	400/50/3	3/4 Gas	204x78x149	851,0
171072006-01B					145	13,8	70,6					
171073006-01B					188	18,7	56,5					

* Performances measured according to ISO 1217, annex C, latest edition.
 ** Noise level measured according to ISO 2151.



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