



VARIABLE-SPEED COMPRESSORS
IVR from 10 to 100 HP

TECHNOLOGY YOU CAN TRUST

IVR for Environment

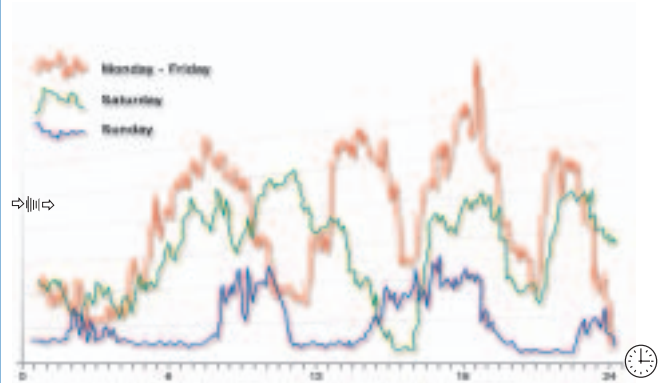
Our extensive experience of compressed air has taught us that, regardless a compressor size:

- the amount of compressed air needed varies according to consumption peaks,
- greater the variation in compressed air consumption, more energy is consumed per liter of air produced,
- most installations require two or three compressors of different sizes.

Variations in the amount of compressed air needed causes constant loading and emptying of the compressors or choked intake.

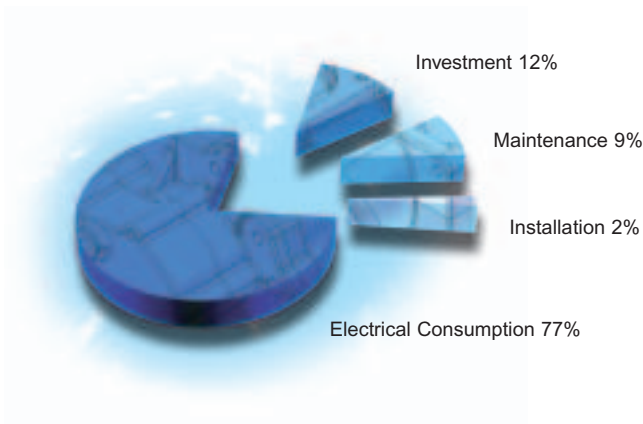
- If a compressor operates empty, energy is wasted while no work is performed.
- If a compressor operates with choked intake, it consumes more energy than would be required to produce the same amount of compressed air.

The amount of compressed air needed during a given day or week varies depending on production.



These variations may be more or less intense. The more intense they are, the more energy is consumed when the compressor operates empty.

Only producing the air needed for the production cycle is an intelligent way to cut consumption and power costs.



It is well-known that in 3-5 years of operation, over three quarters of the overall cost of a compressor is ascribable to electricity consumption. REDUCING electricity consumption means:

- Lower power costs = SAVINGS
- Lower power consumption = ENVIRONMENTAL FRIENDLINESS

Energy saving is the best possible investment for improved future performance.

IVR high Technology

from 300 to 13.880 l/min. for every requirement

Variable-speed compressors with Inverters from Ceccato Aria Compressa S.p.A. operate optimally under any load conditions and ensure maximum capacity with minimum consumption.

All components are reliable, efficient and time-proven, and are the standard components used in traditional machines.

The inverter is made by the world's leading brand, and is built into the machine.

Compressor with asymmetric screws. High efficiency, high yield and low noise level.

Main **electric motor** enclosed, air-cooled with external ventilation and Class F insulation.

Triple-action **air/oil separator** guarantees compressed air delivery with lower residual-oil content.

Compact, highly efficient air/air and air/oil **coolers** maintain optimum oil temperature and keep delivery air cool.



Control panel with state-of-the-art control system, microprocessor diagnostics and alphanumeric display for safe, efficient machine management.

All data displayed in standardized symbols

Built-in **frequency converter** for compressor speed variation and ramped motor startup, including standard RFI filters.

Sound-proofing fairing in wide, painted steel panels, removable for easy access to all internal components.

Sturdy steel **base** set-up for easy handling.

IVR range 10 - 100 HP



Easy maintenance

Particular care has been taken to simplify all maintenance operations:

- wide, easily removable side doors or panels ensure easy access to all internal components
- all components can be removed without special equipment
- scheduled signaling of all maintenance required.

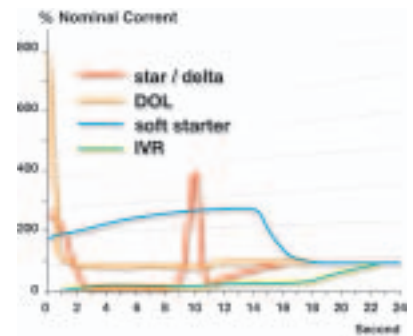
Easy to use

The compressor is controlled by a safe, state-of-the-art monitoring system proven through years of use in traditional machines.

- automatically manages the multiple running phases, such as startup, adjustment, compressor control and shutoff
- stops the compressor in the event of breakdowns
- All messages are digital, displayed simply and clearly, and directly readable without special codes.

Soft startup

Traditional startup results in high current peaks.



Startup with the inverter

- does NOT cause current peaks
- does NOT result in overheating to an extent that limits the number of startups
- does NOT cause mechanical stress to coupling elements
- EXTENDS the life of bearings, belts and transmission joints.



Built-in INVERTER

A highly efficient frequency converter with low harmonic distortion ensures excellent output for all compressor operations.

A standard product compatible with our compressors.

Conforms to current standards of electromagnetic compatibility.

Built into the machine in a well-aired housing.

Savings...



with the variable-speed compressor from Ceccato Aria Compressa S.p.A.

Principle

Variations in the amount of compressed air required causes corresponding variations in line pressure.

Pressure variation is detected by the compressor delivery pressure sensor, which processes the signal and transmits it to the control system.

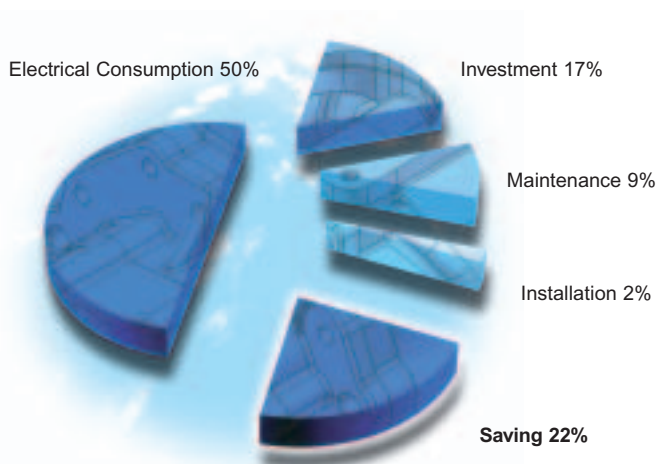
The machine varies motor speed and keeps line pressure constant, adjusting automatically according to consumption. This means it only supplies the amount of compressed air required by the system.

The motor speed is regulated by varying the electric motor feed frequency.

Every re-start of the electric motor using the INVERTER is ramped, with limited current. This means an unlimited number of startups can be performed, unlike traditional compressors with direct or ASD startup.

Result

The IVR screw compressor, coupled to a system that electronically adjusts the motor's rotation speed, **ONLY CONSUMES** the energy needed to produce the compressed air required by the system. This saves over 20% in approximately 20,000 hours of operation compared to traditional equal power.











Advantages

- **LOWER RUNNING COST**
 - Only uses energy for air production.
 - No energy wasted on partial loading
- **CONSTANT PRESSURE**
 - Lower energy consumption.
 - Higher process stability.
- **LOWER MAXIMUM PRESSURE**
 - Lower energy consumption for lowest maximum pressure.
 - Reduced compressed air leaks.
- **CONSTANT POWER FACTOR (Cos φ)**
 - High value, even with reduced loads.
 - No need for rephasing.
 - No penalties imposed by power suppliers.
- **RAMPED MOTOR-STARTUP**
 - No current peaks.
 - Lower energy consumption.
 - Less stress on coupling elements.
 - Improved mechanical reliability.
 - Unlimited startups.
 - No penalties imposed by power suppliers.
- **STANDARD COMPONENTS**
 - Reliable, standard motors and inverter.
 - Customer service available everywhere.
- **EASY MAINTENANCE**
 - Easy component access.
 - Operation parameter monitoring.
- **LONGER MAINTENANCE INTERVALS**
- **ELECTROMAGNETIC COMPATIBILITY**
- **SILENT RUNNING**
- **CECCATO ARIA COMPRESSA S.P.A. GUARANTEE**
- **PROFITABLE IN THE LONG RUN**

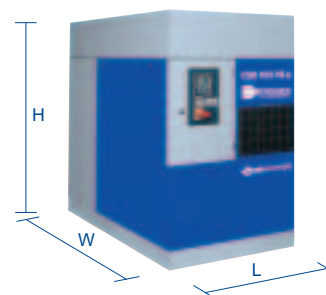
In response to these needs, Ceccato Aria Compressa S.p.A. offers its own range of compressors with **INVERTERS** and its own technical experts to analyze your requirements.

TECHNICAL DATA (ACCORDING TO ISO 1217 AND CAGI PNEUROP PN8NTC2)

Type					max  min.									
	bar	psi	HP	kW	l/1'	m³/h	cfm	dB (A)	V/Hz/Ph	gas	L	W	H	Kg
CSA 10 IVR ^①	8	116	10	7,5	1.120 335	67 20	40 12	64	400/50/3	3/4"	1.000	664	1.045	230
	10	145	10	7,5	1.000 300	60 18	35 11							
CSA 15 IVR ^①	8	116	15	11	1.620 505	97 30	57 18	63	400/50/3	3/4"	1.000	664	1.045	245
	10	145	15	11	1.400 450	84 27	50 16							
CSA 20 IVR ^①	8	116	20	15	2.000 623	120 37	70 22	65	400/50/3	3/4"	1.000	664	1.045	250
	10	145	20	15	1.790 504	107 30	63 18							
CSB 25 IVR	8	116	25	18,5	2.900 870	174 52	102 31	68	400/50/3	1 1/4"	1.330	815	1.190	455
	10	145	25	18,5	2.690 800	161 48	95 28							
CSB 30 IVR	8	116	30	22	3.530 1.100	212 66	125 39	68	400/50/3	1 1/4"	1.330	815	1.190	470
	10	145	30	22	3.170 990	190 59	112 35							
CSC 40 IVR	8	116	40	30	4.900 1.470	294 88	173 52	69	400/50/3	1 1/4"	1.100	1.390	1.805	750
	10	145	40	30	4.310 1.290	259 77	152 46							
CSC 50 IVR	8	116	50	37	6.080 1.760	365 106	215 62	70	400/50/3	1 1/4"	1.100	1.390	1.805	850
	10	145	50	37	5.540 1.560	332 94	196 55							
CSC 60 IVR	8	116	60	45	7.790 2.255	467 135	275 80	71	400/50/3	1 1/4"	1.100	1.390	1.805	870
	10	145	60	45	6.810 1.918	409 115	240 68							
CSD 75 IVR	8	116	75	55	10.180 3.095	611 186	359 109	69	400/50/3	1 1/2"	1.100	1.930	1.765	1.115
	10	145	75	55	8.850 2.691	531 161	313 95							
CSD 100 IVR	8	116	100	75	13.880 4.220	833 253	490 149	69	400/50/3	1 1/2"	1.100	1.930	1.765	1.205
	10	145	100	75	11.860 3.606	712 216	419 127							

① Available version tank mounted with or without dryer and filters
 - Sizes and weights without packaging

Our products are under constant development. We therefore reserve the right to make any product changes deemed



Design
 Manufacture, Sales and
 Service of air compressors,
 Air dryers and air filters



SOLD AT