



➤➤➤ CSB 15 - 20 HP
CSB 25 - 40 HP

Oil-injected screw
Compressors
Fixed & Variable speed
Tank and Basemounted

High performance
and efficiency.
A complete and adaptable
solution for your
compressed air demand





User benefits

Easy maintenance and accessibility

- All service components are quickly reached by removing the panels for service and cleaning.
- Easily handled from 3 sides
- Quickly removable oil filter and air oil separator cartridge.
- Oil level check through sight glass and oil change using the drain valve



User comfort

- All in one solution, tank mounted with dryer. Less space needed compared to a traditional installation
- Flexible handling thanks to three forklift openings
- The noise levels are very low thanks to the soundproofed canopy
- ES 3000 electronic controller with comprehensive information display ensures user-friendly operation

Reliability and prolonged lifetime

- Dust protection for internal components, air intake external filtration foam and inverter protection for IVR units
- Element built with low-wear bearings and exact tolerances granting a long lasting life
- Highly effective encapsulated air filter
- Oil filter and air-oil separator ensures less than 3 ppm of oil content in the compressed air.
- Longer belt life due to optimised tensioning system

Savings through efficient performance

- A high efficiency element ensures low energy consumption and long term performance
- IVR units will allow you to save up to 30 % in energy costs compared to fixed speed units

User safety

- Emergency stop
- Closed inverter cubicle
- Protection grid
- Corrosion-proof safety vessel

CSB 15 - 40 • Basemounted CSB 15 - 30 • Tankmounted

Compressed air drives your company. Consequently, choosing the right compressor is crucial. Going for our CSB range of belt driven oil-injected screw compressors is a choice you will not regret. The range has an intelligent design and offers a wide choice of variants, all built with quality components guaranteeing solid performance and reliable efficiency.



The Ceccato CSB range offers a wide choice of compressors from 15 to 40 hp, with fixed speed control or variable speed (IVR) control, basemounted or installed on an air vessel with dryer up to 30 hp. Following your needs, the CSB will allow you to choose the right solution for your compressed air demand in order to save costs on energy consumption and installation. Whatever model you choose, high standard components guarantee a solid performance while the optimised design ensures high reliability.

Fixed speed control - Load-unload regulation

A load/unload compressor delivers a constant air capacity. The regulation of the flow is assured by an inlet valve installed on the element air intake. This valve closes the intake when the unload pressure is achieved switching the compressor to an unload cycle. When the network pressure drops to the load pressure level, the valve opens and the compressor starts the load cycle.

Variable speed control - Frequency driven regulation (IVR)

Energy costs for compressors can represent more than 70 % of the life cycle costs. Using our CSB IVR you can reduce these costs up to 30 % thanks to the variable speed technology. The CSB IVR motor speed is modulated by a frequency converter in order to have a constant net pressure value and adjust the air supply to your air demand.

Optional and standard features

OPTION	BASEMOUNTED		TANKMOUNTED	
	Fixed speed	Variable speed	Fixed speed	Variable speed
0,1 ppm filter option	x	x	✓	✓
Wooden crate	✓	✓	✓	✓
Automatic restart	standard	standard	standard	standard
ES 3000 net connection	✓	✓	✓	✓
Filtration panel	standard	standard	standard	standard
15 bar air vessel	x	x	standard	standard
Automatic drain (dryer)	x	x	standard	standard
Forklift holes	standard	standard	standard	standard

✓ = available x = not available

SMART TECHNICAL ADVANTAGES



COMPACT AND SAFE

- Small footprint
- Complete installation
- 15 bar air vessel till 30 hp
- Corrosion-proof safety vessel



OPTIMAL SERVICE ACCESSIBILITY

- Easy to remove panels for service
- Easy access to all service parts
- Drain valve on oil outlet for simplified oil change
- Removable filtration foam for cleaning



ALWAYS IN CONTROL WITH ES 3000

- Standard on all models
- Option net connection up to 6 machines

QUALITY OPERATIONS

- Improved air quality (0,01 ppm thanks to filters option)
- Improved serviceability due to dryer, filters and air receiver by-pass (option)
- Protection of your compressed air system through purified air
- Clean air leads to higher final product quality and increased overall production

EASY CHECK-UP

- Oil sight glass visible through canopy for oil level inspection without opening

EASY INSTALLATION

- Both the base- and tankmounted units come standard with forklift openings allowing easy installation



Maximum comfort, high quality and cost saving

»»» User comfort through low noise and easy & safe operation

The CSB range benefits from design experience, rigorous selection and careful assembly of components (e.g. insulation foam, deflectors and anti-vibration pads) to achieve a low noise level. As a result, the range offers a compact machine which can easily be installed in working environments, even close to the workplace. Consequently, pipeline length and pressure drops can be reduced which will allow you to save costs.

With the ES3000 electronic controller, operating your compressor is easy and straightforward. A clear and intuitive information display provides the needed information at a glance. The user-friendly management system focuses both on efficiency and safety:



Efficiency

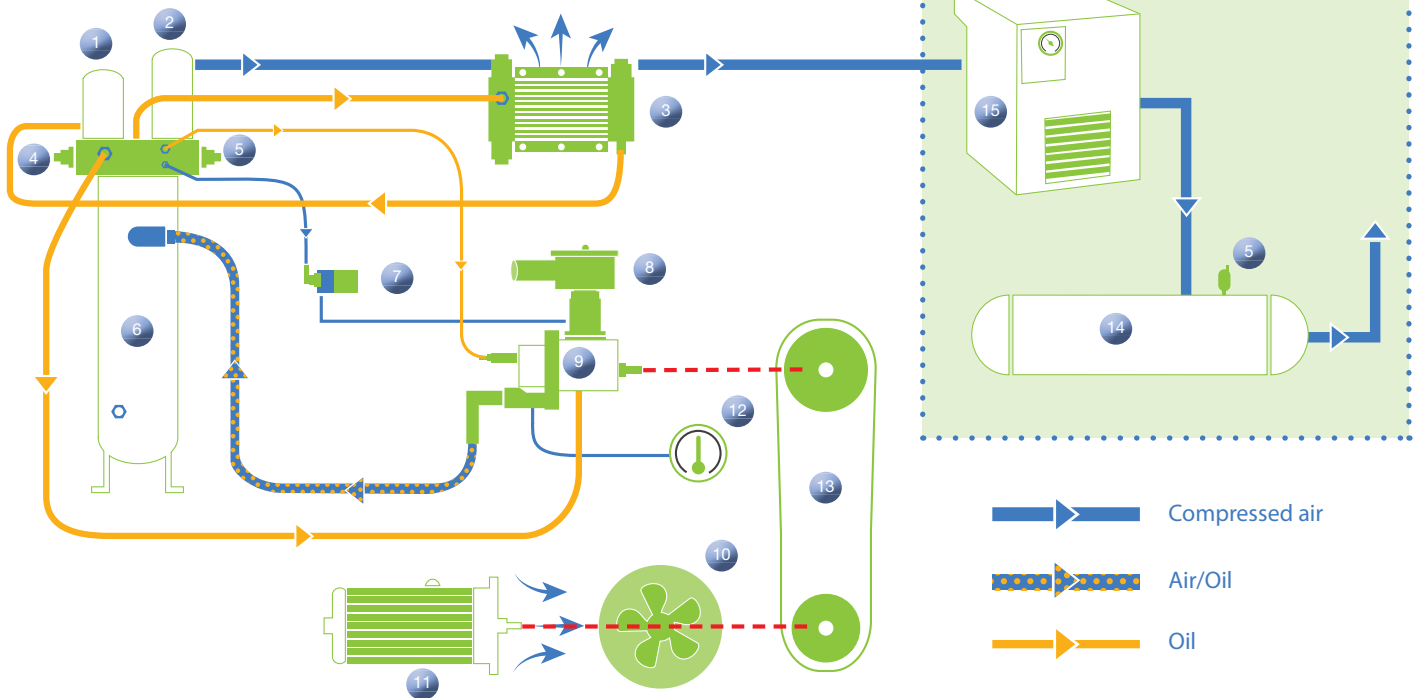
- Start/stop function (including stop after default and automatic restart after power failure)
- Intelligent control system minimizing unload time
- Pressure & phase control
- Planning functionality (daily/weekly).

Safety

- General alarm
- Default (low or high temperature, turbine or main motor overload, wrong rotation, over pressure)
- Due maintenance and component change

»»» Optimised operating flow

The flow diagram below illustrates the operating process which makes the CSB range into a compact and efficient compressor.



»»» Components

- | | | |
|----------------------|------------------------------|---------------------------------|
| 1 oil filter | 6 oil vessel | 11 electric motor |
| 2 air-oil separator | 7 air suction solenoid valve | 12 temperature probe/thermostat |
| 3 oil-air cooler | 8 air suction filter | 13 transmission unit |
| 4 thermostatic valve | 9 screw compressor | 14 compressed air receiver |
| 5 safety valve | 10 fan | 15 refrigerant dryer |

CSB 15 - 20 Basemounted CSB 15 - 20 Tankmounted

The new CSB 15-20 combines the well-known reliability and performance with a smart design and the opportunity to have the unit installed on an air tank. Choosing the new TM version offers you:

- Installation cost saving.
- Small footprint, less space needed compared to a traditional installation.
- Reduced risk for air leakages, no costs for air loss.



Variants

TYPE	VOLTAGES COMPRESSOR - DRYER	TANKMOUNTED + DRYER	IVR
CSB 15 HP	400/3/50 - 230/1/50	✓	✗
CSB 20 HP	400/3/50 - 230/1/50	✓	✓

* Other voltages are considered at first order

Components

- 1 Powder coated soundproof canopy
- 2 Electronic controller ES3000
- 3 Oil vessel
- 4 High efficiency air filter
- 5 Oil filter and air-oil separator cartridge



Energy efficiency: Intelligent shut down

On fixed speed machines the "intelligent shut down" feature considerably reduces the electrical energy consumption during unload phase. This is achieved by calculating the minimum unload time evaluating pressure trend and the maximum number of programmed start-ups per hour. Once maximum pressure level has been reached, and with no further air demand, the compressor requirement switches to unload.

The energy saving is obtained by stopping the compressor, following the shortest possible unload period.

This ensures:

- the maximum number of start-ups per hour programmed is not exceeded
- immediate restart in order to satisfy a subsequent requirement of air.

Your energy efficient and solid performance

CSB 25 - 40 Basemounted CSB 25 - 30 Tankmounted

CSB 25-40 is a robust, reliable and efficient compressor today also available installed on an air tank with refrigerant dryer for the 25 and 30 hp models. CSB 25-40 offers you:

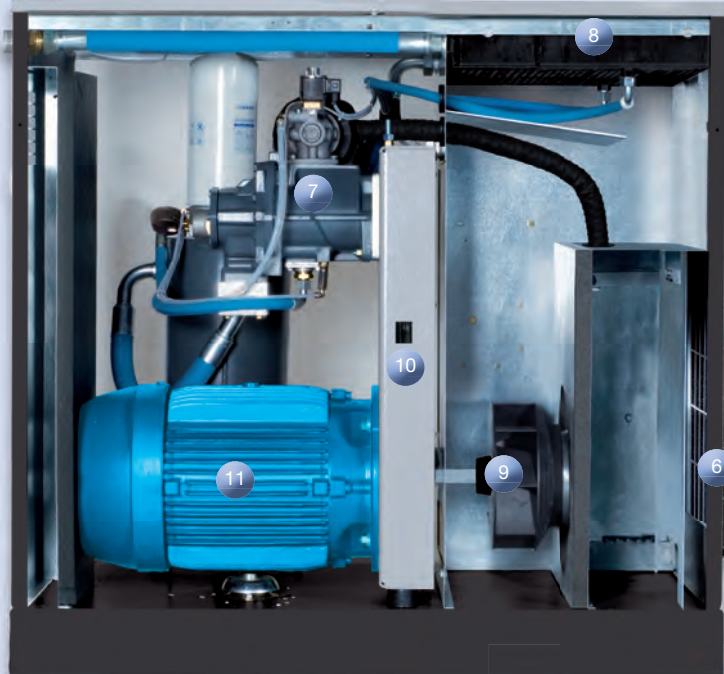
- High performance and efficiency
- Installation cost savings and a small footprint thanks to the TM model
- Easy and fast access for service



Variants

TYPE	VOLTAGES COMPRESSOR - DRYER	TANKMOUNTED + DRYER	IVR
CSB 25 HP	400/3/50 - 230/1/50	✓	✓
CSB 30 HP	400/3/50 - 230/1/50	✓	✓
CSB 40 HP	400/3/50 - 230/1/50	n.a.	✓

* Other voltages are considered at first order

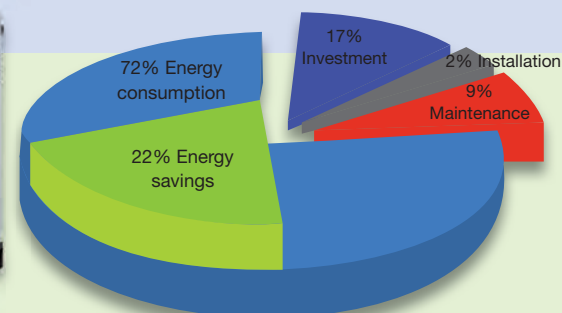


Components

- 6 Filtration foam
- 7 Asymmetrical oil lubricated screws
- 8 Aluminium combined air/air and air oil cooler
- 9 Cooling turbine
- 10 Pulley-belt assembly
- 11 Electric motor

Energy efficiency: Variable speed

Energy costs represent about 70% of the total operating cost of your compressor over a 5 year period. Most of the time, however, the air demand is not constant in a network. An inverter driven compressor is designed to reduce the speed of the main motor precisely following the profile of the compressed air demand. This results in a reduced power consumption, causing energy savings and a quick return on investment.



CSB 15 - 40 Basemounted / CSB 15 - 30 - Tankmounted



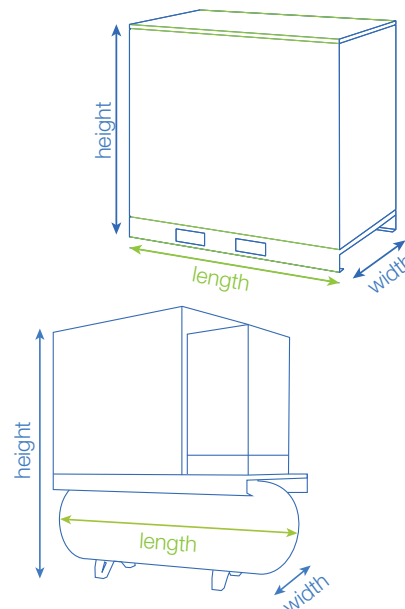
»»» Technical data

FIXED SPEED								dB(A)		
	BAR	psi	hp	kW	l/min	m ³ /h	cfm		BM	TM + dryer
CSB 15	8	116	15	11	1820	109	64	61	283	495
	10	145	15	11	1580	95	56	61		
	13	188	15	11	1190	71	42	61		
CSB 20	8	116	20	15	2380	143	84	62	302	514
	10	145	20	15	2120	127	75	62		
	13	188	20	15	1610	97	57	62		
CSB 25	8	116	25	18,5	2910	174	103	66	414	632
	10	145	25	18,5	2620	157	92	66		
	13	188	25	18,5	2120	127	75	66		
CSB 30	8	116	30	22	3590	215	127	68	430	660
	10	145	30	22	3100	186	109	68		
	13	188	30	22	2540	152	90	68		
CSB 40	8	116	40	30	3970	238	140	69	458	n.a.
	10	145	40	30	3540	212	125	69		
	13	188	40	30	2980	179	105	69		

VARIABLE SPEED																	dB(A)					
	BAR	psi	hp	kW	Min. F.A.D.			F.A.D. 5,5 bar			F.A.D. 7,5 bar			F.A.D. 9,5 bar				F.A.D. 12,5 bar				
					l/min	m ³ /h	cfm	l/min	m ³ /h	cfm	l/min	m ³ /h	cfm	l/min	m ³ /h	cfm		l/min	m ³ /h	cfm		
CSB 20 IVR	8 (4 - 9,5)	116 (58 - 138)	20	15	660	39	23	2517	151	88	2400	144	84	2150	129	75	n.a.	n.a.	n.a.	63	319	531
	10 (4 - 12,5)	145 (58 - 181)			470	28	17	n.a.	n.a.	n.a.	2200	132	77	2100	126	73	1733	104	60	63		
CSB 25 IVR	8 (4 - 9,5)	116 (58 - 138)	25	18,5	880	53	31	3167	190	112	3017	181	105	2700	162	94	n.a.	n.a.	n.a.	67	452	660
	10 (4 - 12,5)	145 (58 - 181)			670	40	23	n.a.	n.a.	n.a.	2733	164	95	2600	156	91	2217	133	77	67		
CSB 30 IVR	8 (4 - 9,5)	116 (58 - 138)	30	22	1020	61	36	3700	222	131	3517	211	123	3183	191	111	n.a.	n.a.	n.a.	69	458	688
	10 (4 - 12,5)	145 (58 - 181)			850	51	30	n.a.	n.a.	n.a.	3233	194	113	3083	185	107	2633	158	92	69		
CSB 40 IVR	8 (4 - 9,5)	116 (58 - 138)	40	30	1240	75	44	4167	250	148	3967	238	138	3600	216	125	n.a.	n.a.	n.a.	70	504	n.a.
	10 (4 - 12,5)	145 (58 - 181)			980	59	35	n.a.	n.a.	n.a.	3633	218	127	3467	208	121	2983	179	104	70		

»»» Dimensions

Model	DIMENSIONS					
	length std mm		height mm		width mm	
	BM	TM	BM	TM	BM	TM
CSB 15 - 20	995	1935	1100	1735	670	665
CSB 25 - 30	1330	1940	1220	1841	780	805
CSB 40	1330		1220		780	





Oil-injected Screw compressors,
Fixed & Variable speed
Range CSB 15 - 40 FM
• CSB 15 - 30 TM



- A high quality product and **technology you can trust**
- Choosing our high performance compressor ensures your compressed air **availability**
- Our products are **simple, easy to use** and give strong **reliability**
- **Serviceability** and aftermarket are guaranteed
- Original Parts and Services
- Dealers are always nearby and complete the strong **partnership** you can expect



Increase your profit and improve the image of your company



Contact your local Ceccato representative now!

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