



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

MSB 11 - 30 kW• Basemounted MSB 11 - 22 kW • Tankmounted

Compressed air drives your company. Consequently, choosing the right compressor is crucial. Going for our MSB 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 Mark MSB range offers a wide choice of compressors from 11 to 30 kW, with fixed speed control or variable speed (IVR) control, basemounted or installed on an air vessel with dryer up to 22 kW. Following your needs, the MSB 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 MSB IVR you can reduce these costs up to 30 % thanks to the variable speed technology. The MSB 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	BASEN	IOUNTED	TANKMOUNTED			
OPTION	Fixed speed	Variable speed	Fixed speed	Variable speed		
0,1 ppm filter option	×	×	v	~		
Wooden crate	~	~	~	~		
Automatic restart	standard	standard	standard	standard		
ES 3000 net connection	V	v	v	~		
Filtration panel	standard	standard	standard	standard		
15 bar air vessel	×	×	standard	standard		
Automatic drain (dryer)	×	×	standard	standard		
Forklift holes	standard	standard	standard	standard		

✓ = available X = not available

>>>> SMART TECHNICAL ADVANTAGES



- Complete installation
 15 bar air vessel till 22 kW
 Corrosion-proof safety vessel

OPTIMAL SERVICE ACCESSIBILITY

- Drain valve on oil outlet for simplified oil change
 Removable filtration foam for cleaning



- Standard on all modelsOption net conection up to 6 machines



QUALITY OPERATIONS

- air receiver by-pass (option)Protection of your compressed air system
- Clean air leads to higher final product quality and increased overall production

EASY CHECK-UP



MSB 22

• Both the base- and tankmounted units come



Maximum comfort, high quality and cost saving

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

The MSB 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:

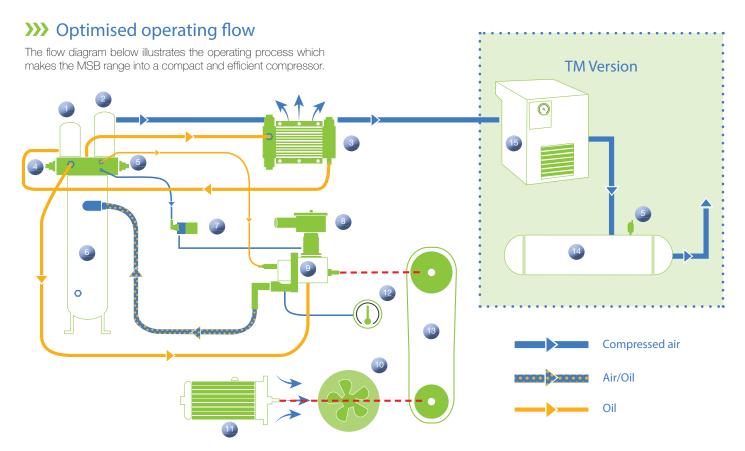
Efficiency

- 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





>>> Components

- oil filter
- air-oil separator
- oil-air cooler
- 4 thermostatic valve
- safety valve

- oil vessel
- air suction solenoid valve
- air suction filter
- screw compressor
- 10 fan

- u electric motor
- 12 temperature probe/thermostat
- 13 transmission unit
- 14 compressed air receiver
- 15 refrigerant dryer

Your smart industry standard in easy operation and maintenance

MSB 11 - 15 kW Basemounted MSB 11 - 15 kW Tankmounted

The new MSB 11-15 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
MSB 11 kW	400/3/50 - 230/1/50	~	×
MSB 15 kW	400/3/50 - 230/1/50	~	v

^{*} Other voltages are considered at first order

>>>> Components

- Powder coated soundproof canopy
- Electronic controller ES3000
- Oil vessel
- High efficiency air filter
- 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

MSB 18,5 - 30 kW Basemounted MSB 18,5 - 22 kW Tankmounted

MSB 18,5-30 kW is a robust, reliable and efficient compressor today also available installed on an air tank with refrigerant dryer for the 18,5 and 22 kW models. MSB 18,5-30 kW 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
MSB 18,5 kW	400/3/50 - 230/1/50	V	V
MSB 22 kW	400/3/50 - 230/1/50	V	V
MSB 30 kW	400/3/50 - 230/1/50	n.a.	V

^{*} Other voltages are considered at first order



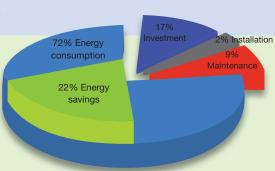
>>> Components

- Filtration foam
- Asymmetrical oil lubricated screws
- Aluminium combined air/air and air oil cooler
- Cooling turbine
- Pulley-belt assembly
- 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.





MSB 11 - 30 kW Basemounted / MSB 11 - 22 kW - Tankmounted



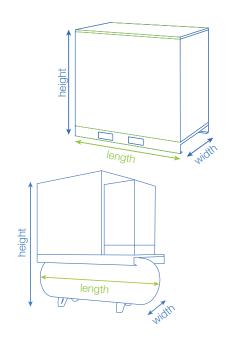
>>> Technical data

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

VARIABLE				þ	♀• • •																													
SPEED					Mi	n. F.A.	D.	F.A.I	D. 5,5	bar	F.A.	D. 7,5	bar	F.A.	D. 9,5	bar	F.A.[). 12,5	bar bar															
	BAR	psi	hp	kW	1/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	dB(A)	BM	TM + dryer												
MSB 15 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												
INISE ISTVK	10 (4 - 12,5)	145 (58 - 181)	20	20	20	20	20	20	20	20	20	20	20	20	20 15	15	470	28	17	n.a.	n.a.	n.a.	2200	132	77	2100	126	73	1733	104	60	63	319	301
MSB 18,5	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												
IVR	10 (4 - 12,5)	145 (58 - 181)	20 10,0	20 10,0	20	20	20	23	20 10	670	40	23	n.a.	n.a.	n.a.	2733	164	95	2600	156	91	2217	133	77	67	402	330							
MSB 22 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	159	688												
WISB 22 IVN	10 (4 - 12,5)	145 (58 - 181)	30	22	850	51	30	n.a.	n.a.	n.a.	3233	194	113	3083	185	107	2633	158	92	69	458	000												
MSB 30 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.o.												
WISD SUIVE	10 (4 - 12,5)	145 (58 - 181)	40	30	980	59	35	n.a.	n.a.	n.a.	3633	218	127	3467	208	121	2983	179	104	70	504	n.a.												

>>> Dimensions

	DIMENSIONS											
Model	_	h std m		ght m	width mm							
	BM	TM	BM	TM	BM	TM						
MSB 11 - 15	995	1935	1100	1735	670	665						
MSB 18,5 - 22	1330	1940	1220	1841	780	805						
MSB 30	1330		1220		780							



Oil-injected Screw compressors, Fixed & Variable speed Range MSB 11 - 30 BM MSB 11 - 22 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

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