



New Silver 3D-20 (2021)



Silentaire Technology
Silent Air Compressors

Benefits

Much better New Silver

Low CO₂ emissions

- Up to **10%** lower Carbon Footprint
- (CO₂e/l of air)

Superior oil separation

- Innovative design
- Materials
- **2..5x** lower ppm

Improved performance

- Up to **15%** higher FAD
- Up to **20%** lower SER
- IE IP55 Motors



Reliable components

- Airend (Design & Production)
- Integrated Block (Design)
- Motors (WEG)
- Valves (co-designed)

Spare Parts management

- Clear and available documentation
- Convenient Service Kits
- Logistics via ASC

Eco-friendly Dryers

- R513A and R410A gas
- Designed for NS
- Stable Dew Point
- Low pressure drop

Airend

State of the art design

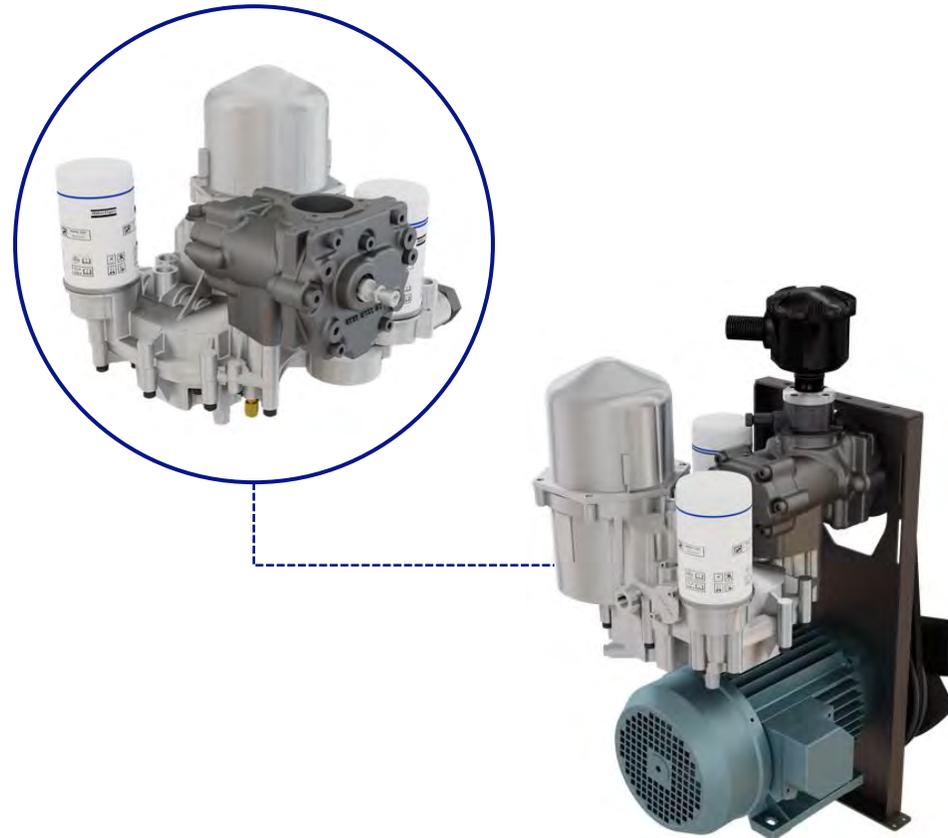


Simplicity and Longevity.
Maintenance free.

Feature	Benefit
New compact airend with asymmetric screw profile. Limited air losses due to compact size and advanced profile. Durable materials.	High free air delivery. High energy efficiency. Long lifetime.
Oil sealed compression	Very few oil in the air system. Air network and tools are well protected against corrosion and damage.
Smooth rotation of the screws.	Low noise. Limited vibrations. Limited load on system's components, including main electrical motor. Long lifetime. Contributes to high FAD.
Fully automated assembly. No human error when it comes to the core node.	Reliability and long lifetime.
Specially designed airend bearings.	Leads to better performance and longer lifetime compared with standard bearings.
Maintenance free.	No maintenance should be done on the core component over the lifecycle of the product.

New Integrated Block

Innovation for your Customers

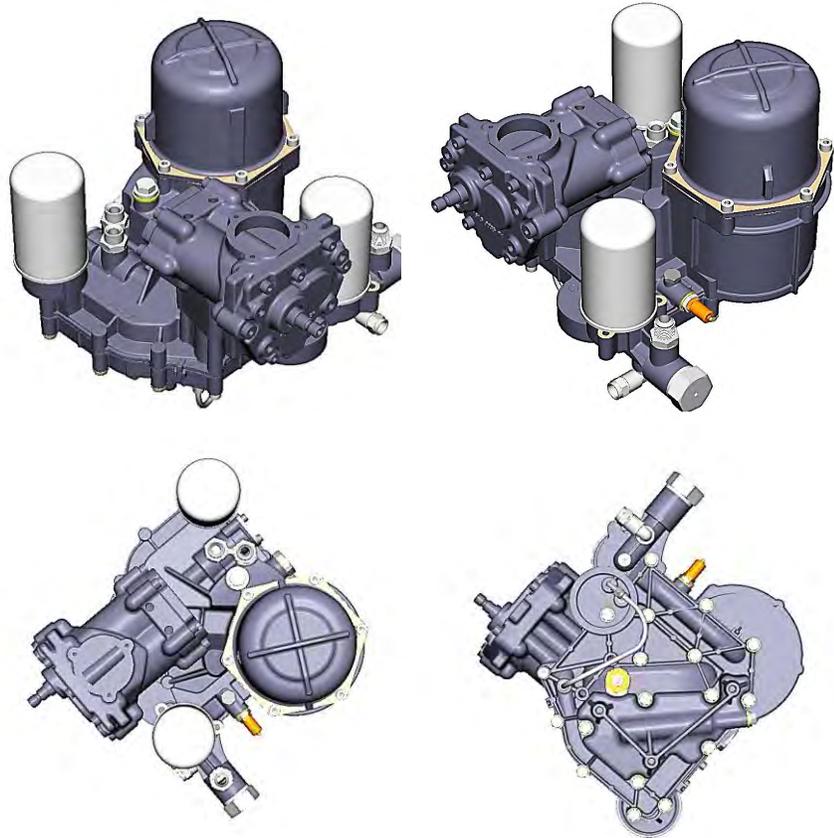


Innovative design made of **Aluminum**

- + Complex architecture with minimum parts and internally casted channels
- + Possibility of vertical separation
- + Stable oil film on the surface
- + Compactness of the integrated oil circuit
- + Simple maintenance

New Integrated Blok

Architecture



Traditional piping is replaced by **internally casted channels**

Very few parts used. IB consists of 3 main parts and integrated valves and fittings.

Eliminates possibility of leakages.

Limited pressure losses in the separation system.

High pressure die casting.

Complexity of architecture.
Simplicity of separation.
High reliability.

High reliability.

Higher energy efficiency.
Less load on motor.

High reliability.

New Integrated Blok

Oil Separation



Vertical architecture of the separation vessel

Unlike horizontal separation in cast iron tanks, vertical pre-separation is much more efficient.

Complexity of the design helps to achieve good results already with the internal separation.

Original Parts with anti-piracy protection.

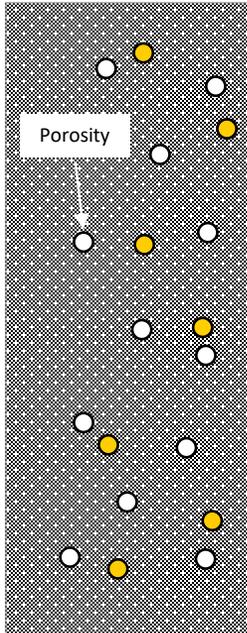
Superior oil separation.
Little risk to damage equipment.
Eco-friendly solution.

High reliability.

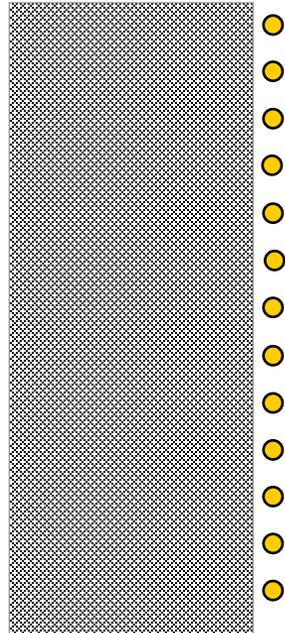
High performance over lifetime of OSE and protection from pirate parts.

New Integrated Blok

Protection from corrosion



Cast Iron



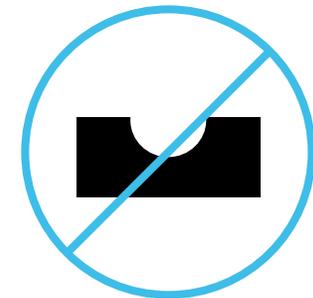
Aluminum

Benefits of using Aluminum

Stable oil film on the surface of aluminum.

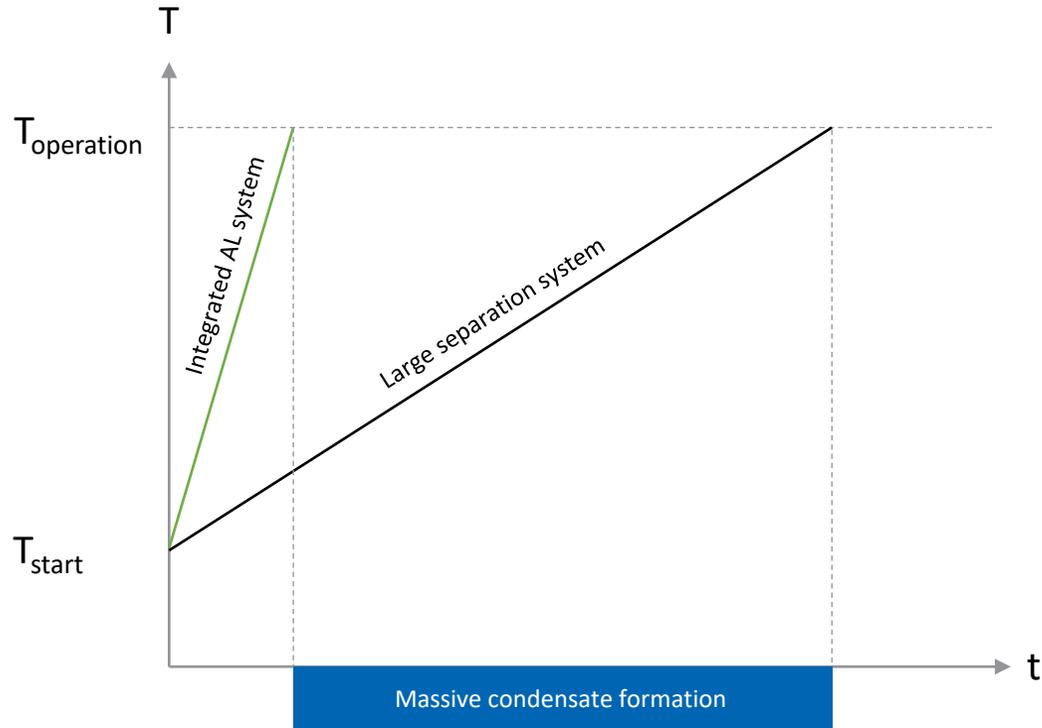
High pressure die casting leads to high density of the material and less porosity.

Less risk of all types of corrosion.



New Integrated Blok

Protection from condensation



Non-continuous operation

Benefits of using Aluminum

Compactness of the integrated oil circuit. Air-oil mixture t° goes high very fast. Little time remains for the formation of the condensate.

Little mass of the water inside the air in the separation system.

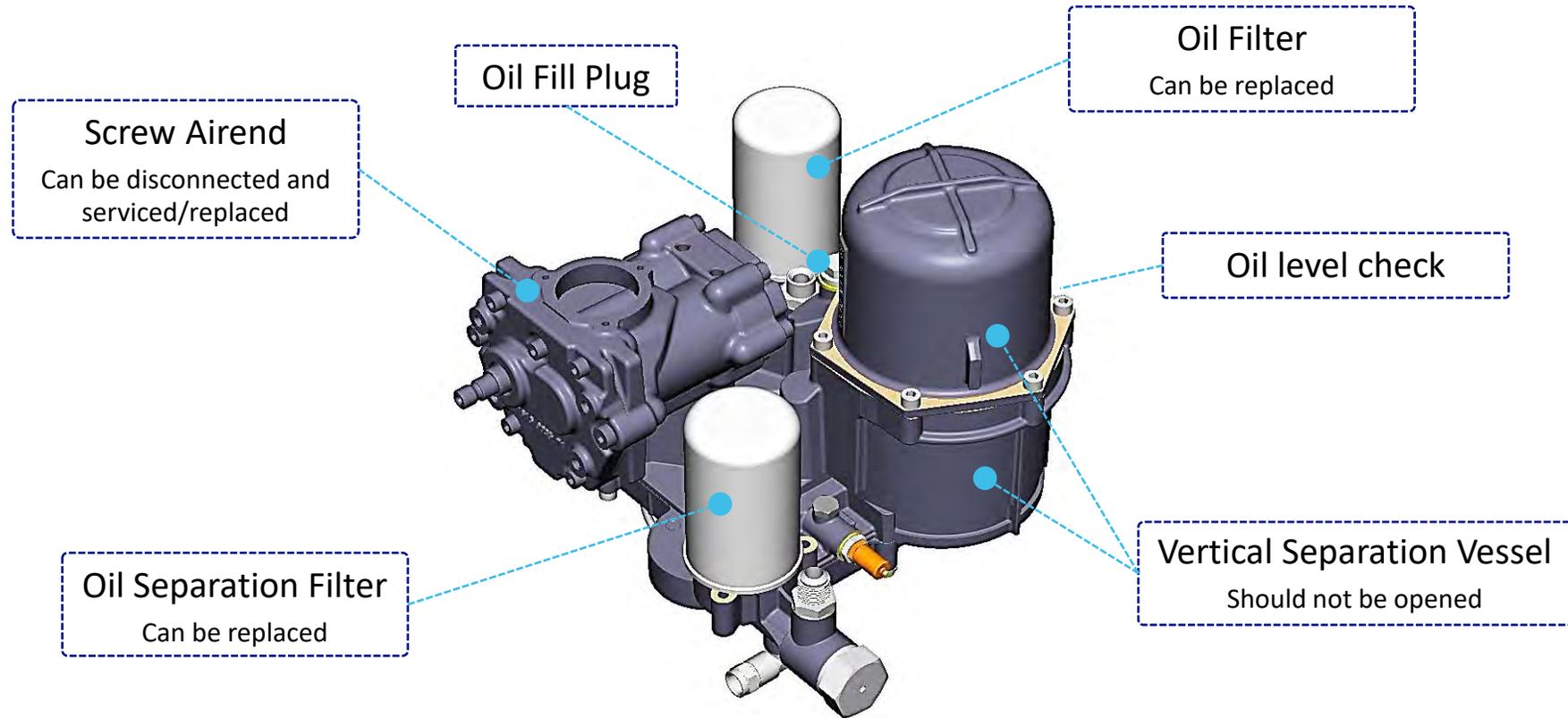
Small thickness and mass of aluminum leads to a quick growth of t° of the material, helping to achieve homogeneous temperature field between material and air faster.

Less risk of condensation.
Protection for the downstream equipment.
High reliability.



New Integrated Blok

Service



Components

Innovations and powerful cooperation



- Own airends C43i and C55*i
- Integrated Block fully designed in-house
- Motors WEG
- Co-designed valves
- Co-developed controllers
- Dryers designed for New Silver
- Electrical components Siemens



new 10
Silver 
ENCAPSULATED ROTARY SCREW 

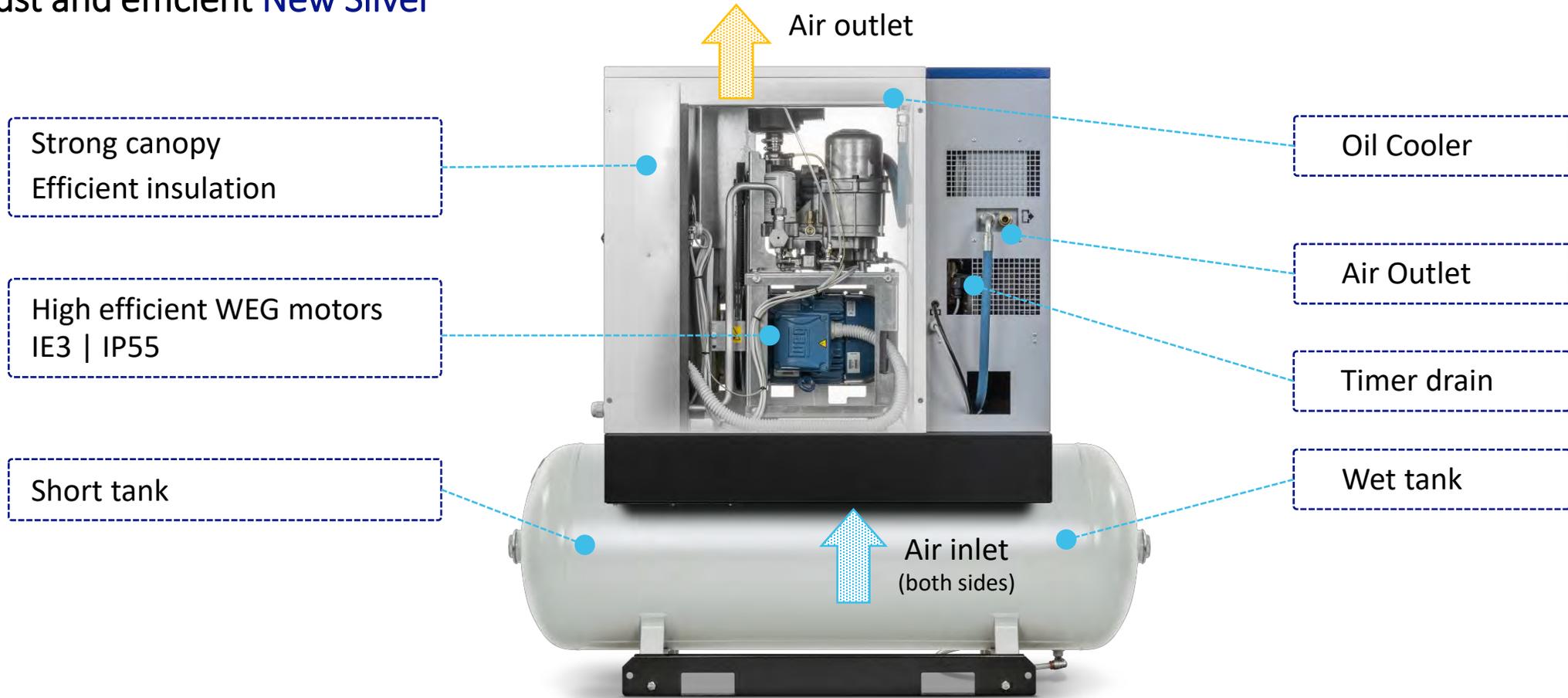
Design

Robust and efficient New Silver



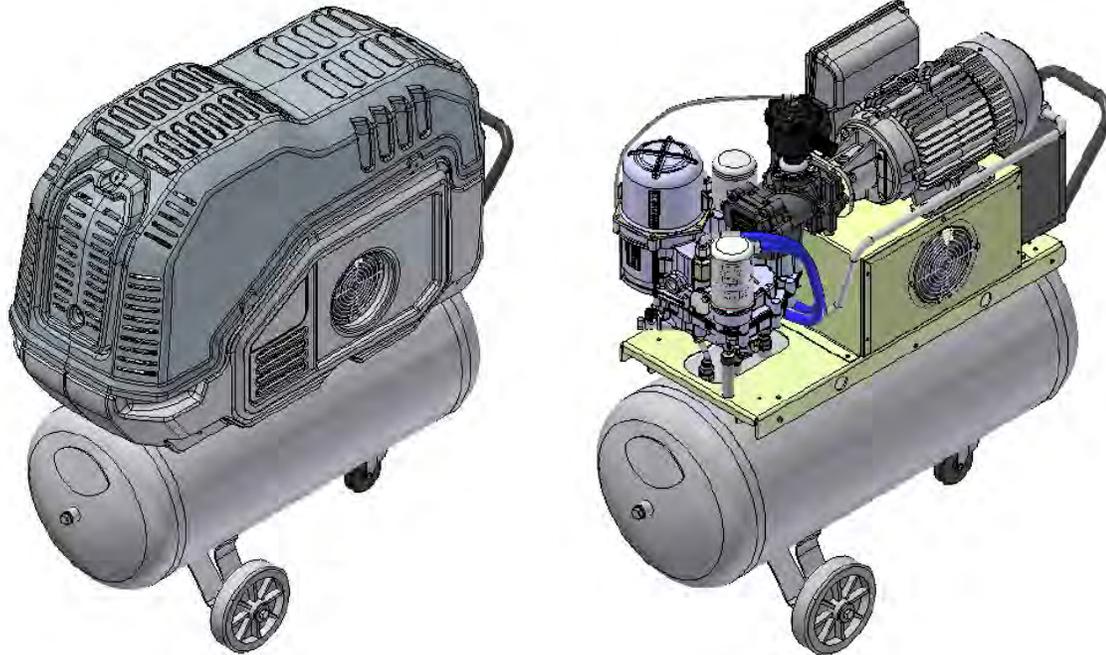
Design

Robust and efficient New Silver



Design

New Silver 3 D

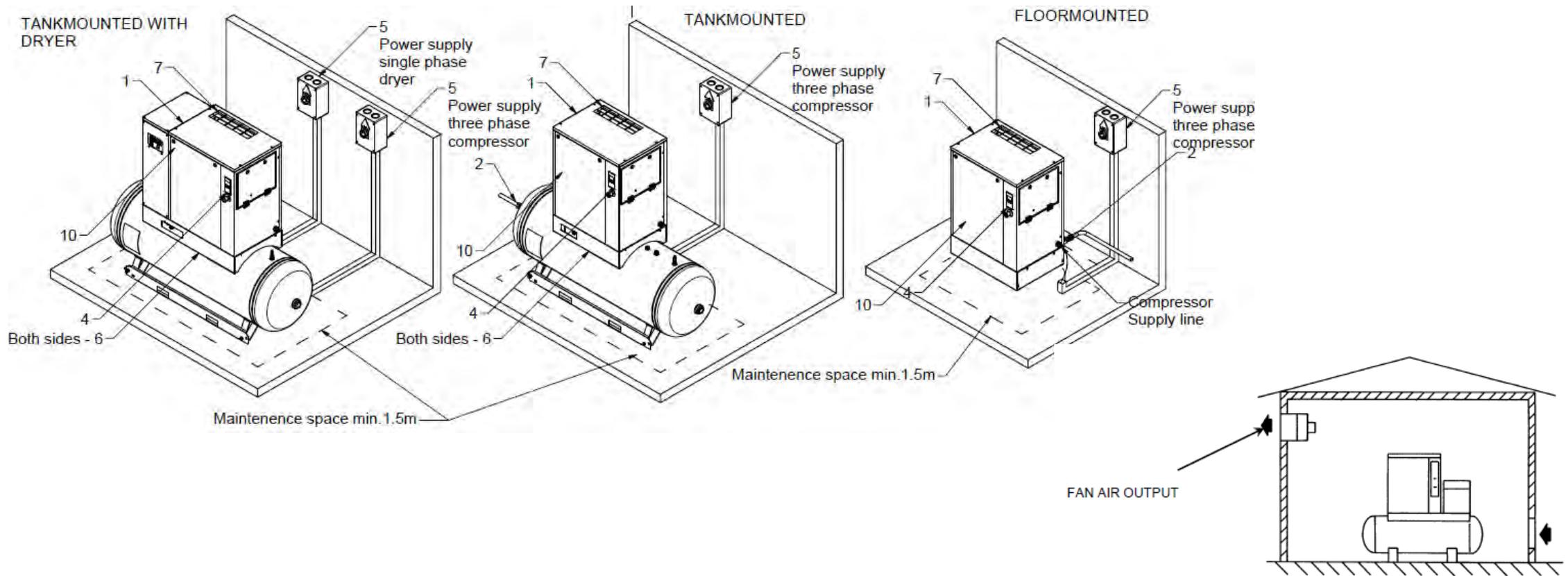


- Working pressure up to 10 bar @50Hz with the new C43 airend
- High efficient direct transmission contributes to high reliability and easy maintenance
- IE3 IP55 industrial motors from WEG
- Intensified cooling
- 90 Wheels / 200 Wheels / 200 Feet
- Grouping: CE/AD2000/MEA-LATAM/NA



Installation

Plug-and-play solution



Full Grouping

Covers Main FIAC Markets



Approval	Mech. App.	Elec. App.	Volt/Hz	Region
MEAA	CE	IEC	400/50 230/50 230/50/1 (NS3D)	EMEA, LATAM
MEAC	CE (based on AD2000)	IEC	400/50 230/50	DACH
MEAP	MOM	IEC	400/50	SGP, MYS, IND
MEAM	AS1210	IEC	400/50	AUSTRALIA
MEAE	ASME	IEC	230/60 380/60 460/60 230/60/1 (NS3D)	MEA, LATAM
MEAF	ASME	UL/cUL	230/60 (NS3D) 230/60/1 (NS3D)	NA
MEAH	CRN (based on ASME)*	UL/cUL	208-230-460/60** 575/60	NA

Full Grouping will be released in July

* under approval

** default voltage set at 230V

Grouping

Variants (FIAC)

	NS 3 D**			NS 4-10*			NS 10S-20			
	HP	50Hz	60Hz	HP	50Hz	60Hz	HP	50Hz	60Hz	
BM				4-10 HP	8/10 bar	116/145	10S-20 HP	8/10/13 bar	132/157/182	
TM 90W	3 HP	10 bar	9 bar							
TM 200W	3 HP	10 bar	9 bar							
TM 200 (D)	3 HP	10 bar	9 bar	4-7.5 HP	8/10 bar	116/145				
TM 270 (D)				4-10 HP	8/10 bar	116/145	10S-20 HP	8/10/13 bar	132/157/182	
TM 500 (D)				7.5-10 HP	8/10 bar	116/145	10S-20 HP	8/10/13 bar	132/157/182	
PN	8	12		268	210		228	108		834

*DOL – 4-5.5 HP, YD – 5.5-10 HP *MEAH – DOL 4-10 HP
 *MEAM – 200L tank n/a **MEAC – only 200W
 ***For other exceptions check **Product Grouping**

4-20 HP Range

Value Proposition



Light Silver 4-10

- When to offer?**
- Need for higher performance | Silent
 - Reserved capacity for future extension
 - DC=100% | Higher air demand | 500L
 - Better efficiency and lower CO₂ footprint

- Transm + IE3 → Higher Performance
- Better insulation and lower noise
- Controller
- VSD (2022)



New Silver 4-20

- When to offer?**
- Need for higher performance
 - 13 bar and VSD requirement
 - Lower Noise
 - Connectivity and more control options required

- Bigger C → Higher Performance
- All Pressures
- VSD
- Lower Noise
- Integr Dryer
- Advanced Controller
- Connectivity Options
- Coalesc. Filter (D)
- Intern motor fan
- Dry Tank
- Ph Seq Relay
- Options



Airblok 73-203

Performance NS 4-10

Better FAD/SER/Noise

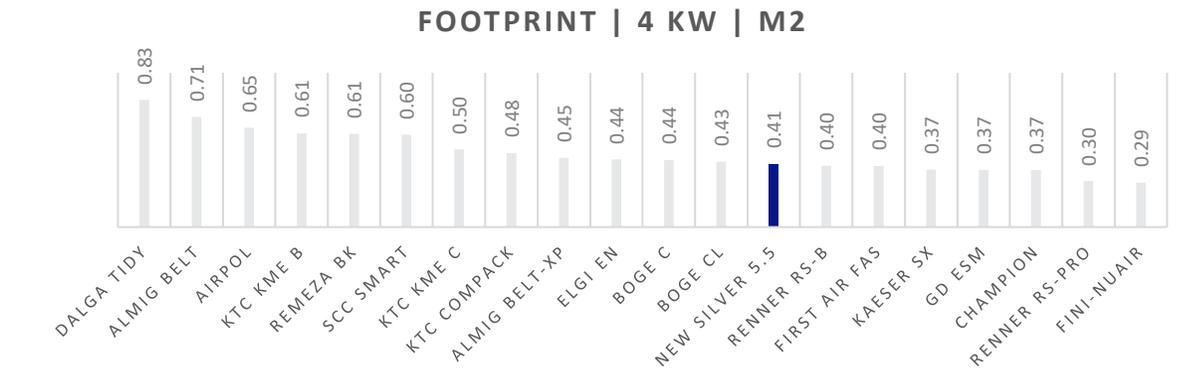
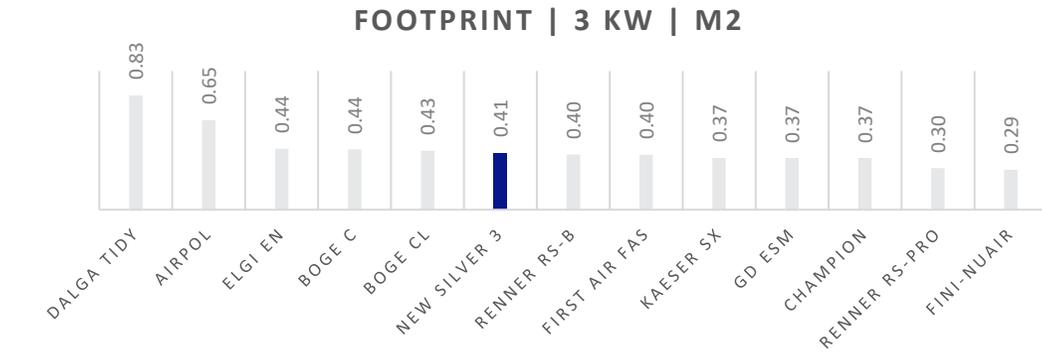
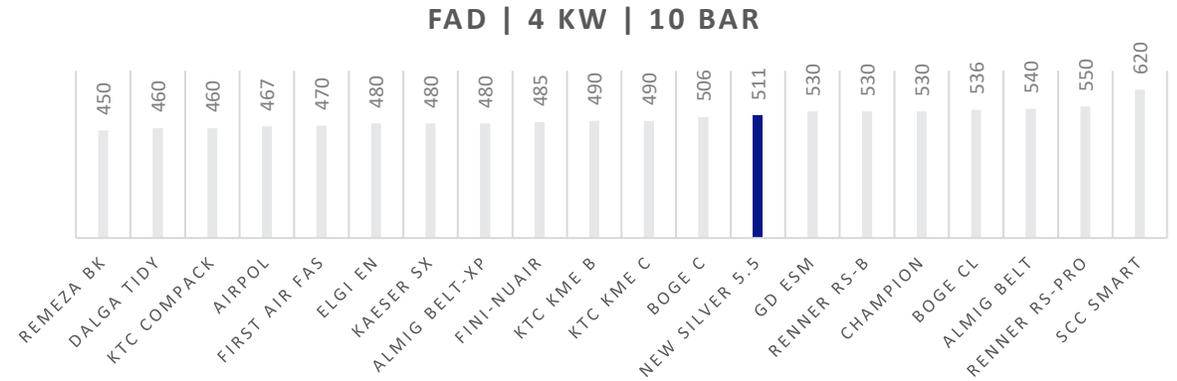
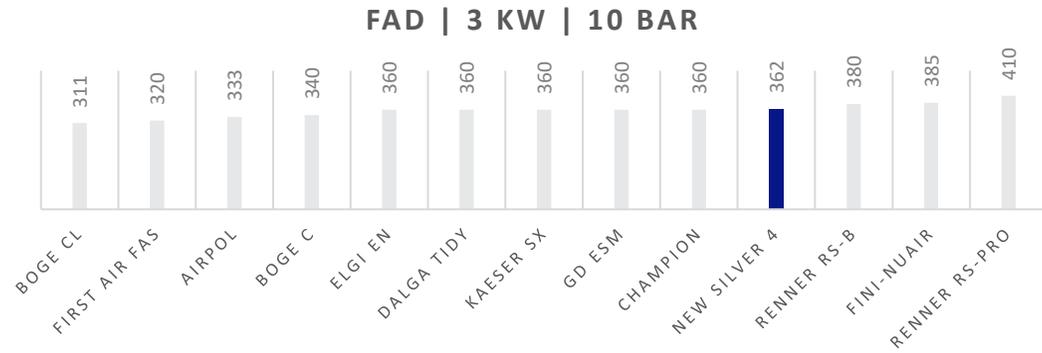
	NS 4	vs NS 4 (o)	NS 5.5	vs NS 5.5 (o)	NS 7.5	vs NS 7.5 (o)	NS 10	vs NS 10 (o)
Power, kW	3	3	4	4	5.5	5.5	7.5	7.5
Pressure, bar	8 / 10	no 13	8 / 10	no 13	8 / 10	no 13	8 / 10	no 13
FAD @10 bar, l/min	362	-13%	511	+14%	770	+7%	965	+12%
SER @10 bar, J/l		-1%		-14%		-3%		-4%
Noise, dB(A)	62	-2	63	-2	65	-1	67	0
Controller	AEC3B (Basic)	Simple	AEC3B (Basic)	Simple	AEC3B (Basic)	Simple	AEC3B (Basic)	Simple

	NS 10S	vs NS 10S (o)	NS 15	vs NS 15 (o)	NS 20	vs NS 20 (o)	NS 3D	vs NS 3D (o)
Power, kW	7.5	7.5	11	11	15	15	2.2	2.2
Pressure, bar	8 / 10 / 13	8 / 10 / 13	8 / 10 / 13	8 / 10 / 13	8 / 10 / 13	8 / 10 / 13	10	9
FAD @10 bar, l/min	1000	0%	1420	-1%	1686	-11%	288	-4%
SER @10 bar, J/l		-2%		-2%		-5%		
Noise, dB(A)	65	+1	69	+4	71	+4		
Controller	AEC3B (Basic)	Simple	AEC3B (Basic)	Simple	AEC3B (Basic)	Simple	AEC3B (Basic)	Simple

*Comparison for 50Hz versions. For detailed information, please check Product Grouping.

Performance & Footprint

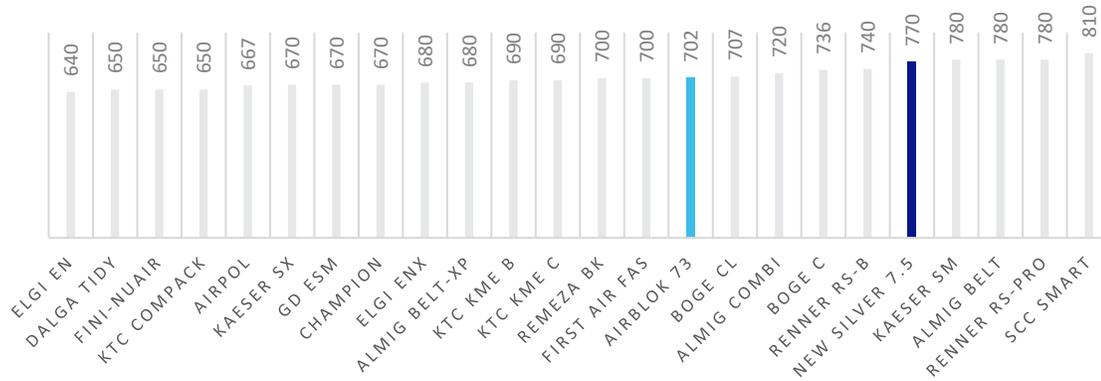
vs Competition



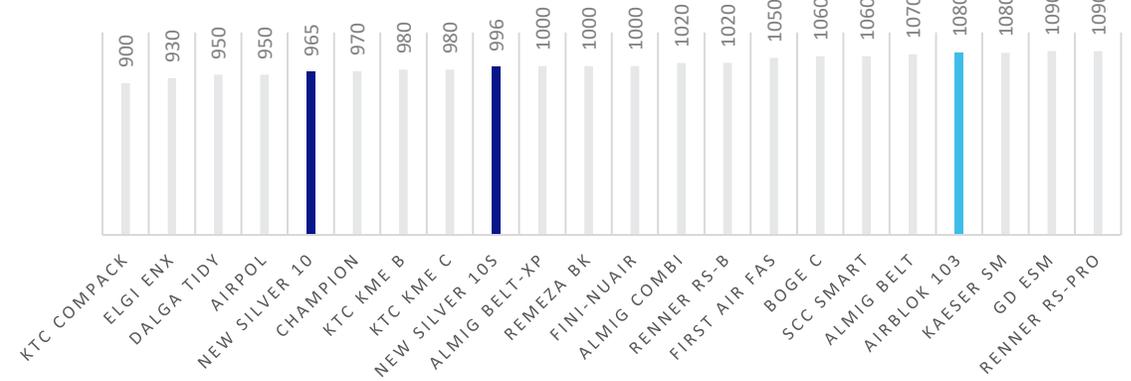
Performance & Footprint

vs Competition

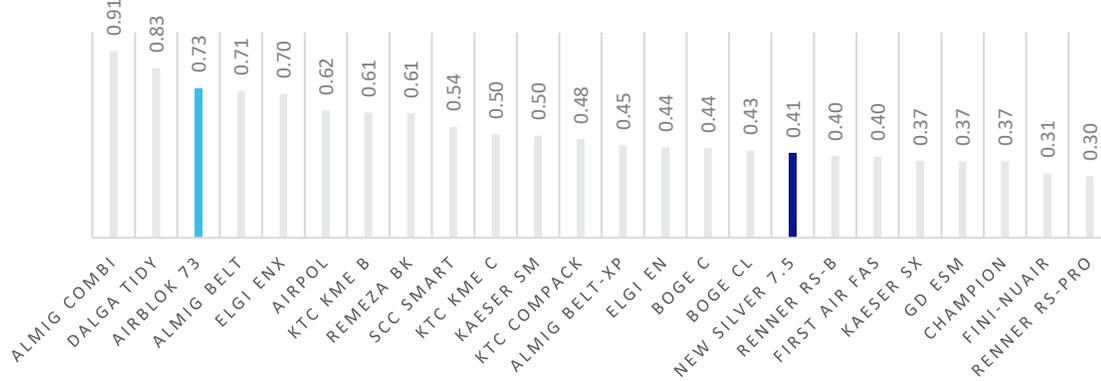
FAD | 5.5 KW | 10 BAR



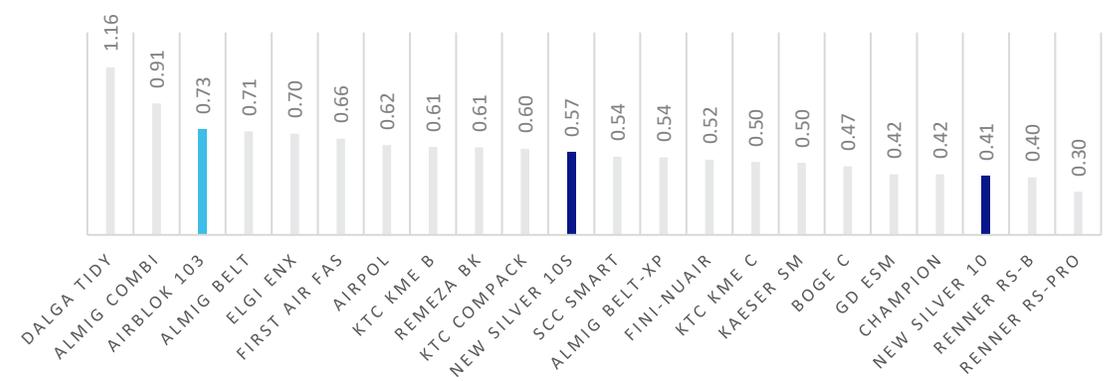
FAD | 7.5 KW | 10 BAR



FOOTPRINT | 5.5 KW | M2



FOOTPRINT | 7.5 KW | M2



Dimensions

Small footprint and volume



	HP	WG kg	L mm	W mm	H mm	SQ m2	V m3
BM	4	147	735	555	1020	0,408	0,416
BM	5,5	152	735	555	1020	0,408	0,416
BM	7,5	163	735	555	1020	0,408	0,416
BM	10	189	735	555	1020	0,408	0,416
TM270	4	214	1533	500	1447	0,767	1,109
TM270	5,5	219	1533	500	1447	0,767	1,109
TM270	7,5	230	1533	500	1447	0,767	1,109
TM270	10	256	1533	500	1447	0,767	1,109
TM270D	4	253	1533	500	1447	0,767	1,109
TM270D	5,5	259	1533	500	1447	0,767	1,109
TM270D	7,5	270	1533	500	1447	0,767	1,109
TM270D	10	296	1533	500	1447	0,767	1,109
BM	10S	205	870	660	1020	0,574	0,586
BM	15	215	870	660	1020	0,574	0,586
BM	20	234	870	660	1020	0,574	0,586
TM500	10S	339	1875	630	1578	1,181	1,864
TM500	15	350	1875	630	1578	1,181	1,864
TM500	20	369	1875	630	1578	1,181	1,864
TM500D	10S	382	1875	630	1578	1,181	1,864
TM500D	15	393	1875	630	1578	1,181	1,864
TM500D	20	412	1875	630	1578	1,181	1,864

	Weight	Footprint	Volume
BM 4-10 vs NS (o)	+8..28%	-8%	-26%
TM 4-10 vs NS (o)	+5..18%	-17%	-6%
BM 10S-20 vs NS (o)	-16%	-14%	+6%
TM 10S-20 vs NS (o)	0..-6%	-17%	-10%

New Silver 4-20

Versions and Naming



Base Mounted



Tank Mounted



Tank Mounted + Dryer

NS 10 500D 10 400/50YD CE

New Silver

Power size

- HP

Tank volume

- Litres

Dryer

- D: Dryer

Pressure

- bar
- psi

Voltage

- 1 phase NS3D
- 3 phase NS

Start

- DOL
- YD

Approval

Complete Package

Controller | Air Quality

- **Air Energy Control 3B (Basic)**
 - Solution for New Silver professional platform
 - Remote Start/Stop
 - Automatic restart after power failure
 - Temperature readings / Pressure reading & setting
 - Running / Loaded hours
 - Service maintenance warnings
 - Failure warnings
- **Air Quality**
 - Highly efficient oil separation guarantees low ppm over lifetime of the OSE
 - Refrigerant dryers E-series modified to use 'next-to'
 - Refrigerant gas R513A (GWP -55 vs R134A) and R410A
 - PDP around 3°C
 - Timer drain, high reliability



Complete Compressor Station

Maintenance

Access to main parts

