OASC D Series

Direct-Coupled Frequency Inverter
Screw Compressor Series

ozen
AIRTECHNOLOGY
EXCLUSIVELY COMPRESSED **AIR SOLUTIONS**

THE DETAILS THAT DELIVER **THE RIGHT RESULTS...**

EXPERIENCE
Ozen Air Technology, with its industry experience of half-a-century and its large portfolio of compressed air products, provides, reliable, efficient and smart solutions.

TRUST
Ozen's dedication to customer satisfaction has helped the company to build lasting relationships of trust and loyalty with its customers.

DURABLE AND EFFICIENT
All of the compressed air equipment in Ozen's portfolio have proven their durability under the toughest conditions. They provide high-quality, high-efficiency air.

QUALITY
Manufacturing consistently high-quality products is one of Ozen's fundamental tenets. To that end, Ozen continuously enhances its quality policies.

Ozen
AIR TECHNOLOGY

TECHNOLOGY

Ozen Air Technology is innovative. It always uses up-to-date technologies in compliance with world-standards.

R & D

With its creative team and competent infrastructure, Ozen is capable of developing its own technology through collaborations with several universities.

STRONG SERVICE NETWORK

Ozen Air Technology believes in maintainability. Its customers can enjoy uninterrupted manufacturing thanks to its accessible, fast and reliable service network.

COMPETITIVE

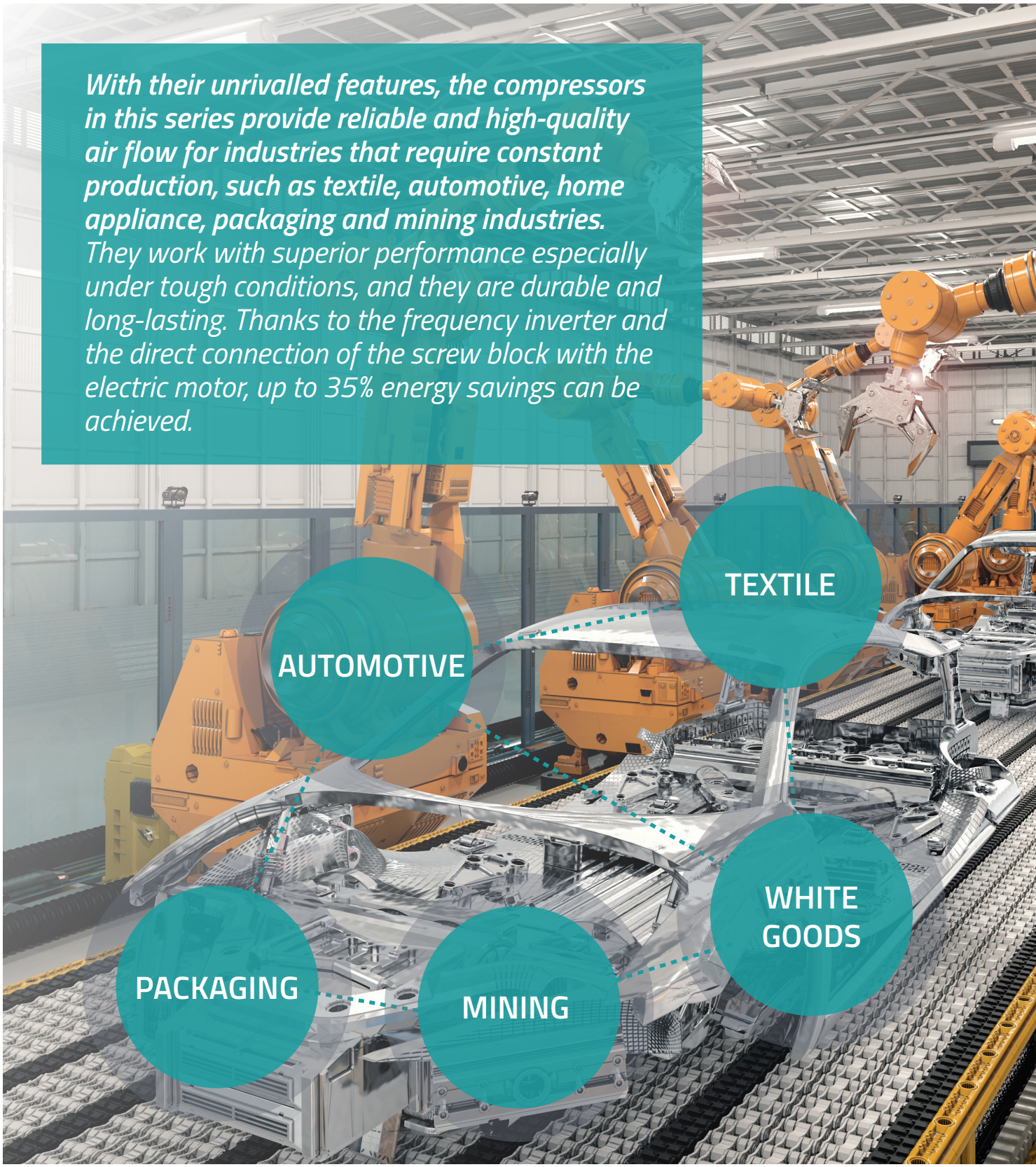
Ozen Air Technology acts in favor of its customers. Providing them with leverage is one of Ozen's strong suits.

RESPECT FOR THE ENVIRONMENT

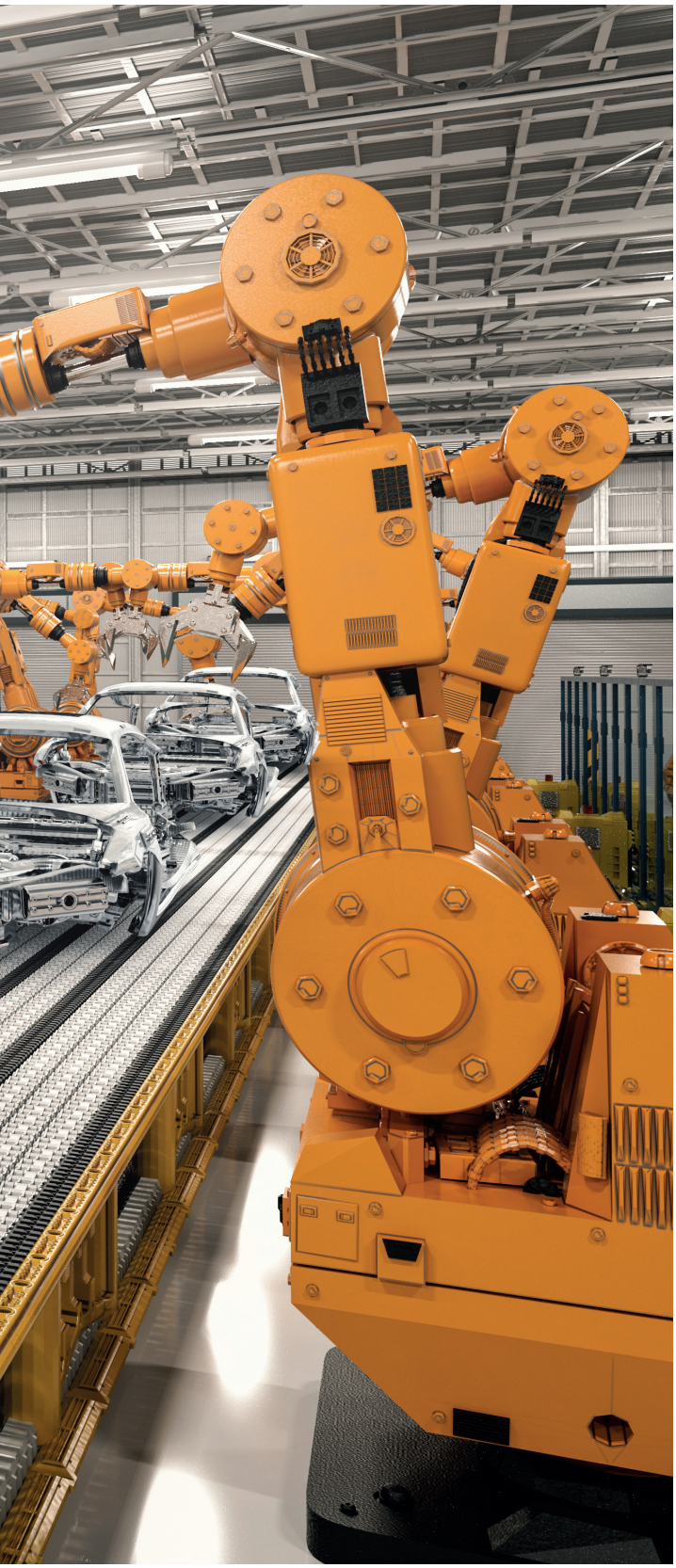
Striving for a sustainable future, Ozen Air Technology selects for environmentally friendly practices and takes all necessary precautions while structuring its work processes.

Direct-Coupled Frequency Inverter Screw Compressor Series

OASC D (18-315 kW)



With their unrivalled features, the compressors in this series provide reliable and high-quality air flow for industries that require constant production, such as textile, automotive, home appliance, packaging and mining industries. *They work with superior performance especially under tough conditions, and they are durable and long-lasting. Thanks to the frequency inverter and the direct connection of the screw block with the electric motor, up to 35% energy savings can be achieved.*



Quality Equipment

- Product durability is improved with reinforced body design.
- Ozen Air Technology uses components that are compatible with world standards.
- High performance and durability provide peace of mind.
- It is easy to find the products with the desired specifications.
- Access to after-sales services is effortless.

Direct-Coupled Frequency Inverter Screw Compressor Series

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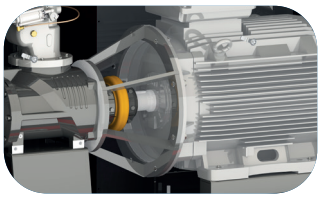
Air-end
High-efficent and high-quality screw group components

1

NEMA TEFC Premium Efficient Motor
Provides high efficiency and performance thanks to its outstanding IP 54 motor.

2



3

Ozen Drive - 1:1 Coupling

- Improves compressor efficiency by the motor power transmission to the screw block with1:1 ratio.
- Saves energy by eliminating losses due to friction.

Vertical Oil Separator Design

- ASME-approved tank
- Minimum pressure drop
- Oil level control
- Immersion separator

4

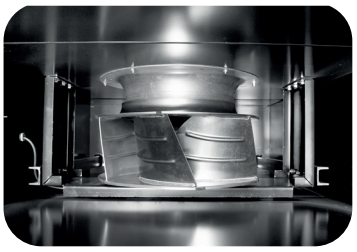
5

Ease of Service

▪ The strategic positioning of product components provides ease of maintenance.

▪ With easily available spare parts, maintenance is no longer an issue.

6



"RCD" – Radial Cooling Design

▪ Guaranteed cooling performance with large size radiator pack.

▪ Strong, compact design provides durability that is tested and proven under tough work conditions.

▪ Enables your compressor to keep working with high efficiency under various conditions. Radial fan ensures quiet operation and high cooling performance.

7

Maestro

▪ User-friendly control panel indicators facilitate the assessment of the equipment as well as the planning of maintenance.

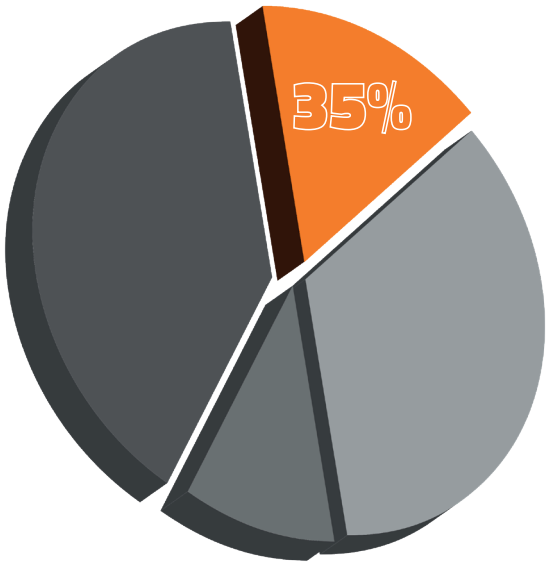
▪ Up to four compressors can be managed from a single control point, providing ease of use and energy savings.

▪ Support for 12 languages

▪ Equal aging option is available

OEO - Ozen Energy Optimization

OASC D (37-315 kW)



Ozen Energy Optimisation on
Avarage up to 35%

Energy Cost Saving VFD

Energy Cost Investment Maintenance

Energy savings even during low-capacity utilization

Since the OASC D series screw compressors with frequency inverter adjust the motor speed according to the actual air need of the facility, high energy use during low-capacity utilization is avoided.

The advantage of constant pressure

As the actual air demand is continuously monitored, the air production is steady and pressure is constant in the compressed air-pipe line at all times. Energy loss due to load/unload work modes is avoided. These compressors can respond to different pressure needs with simple settings on the control panel, without changing anything in the compressor itself.

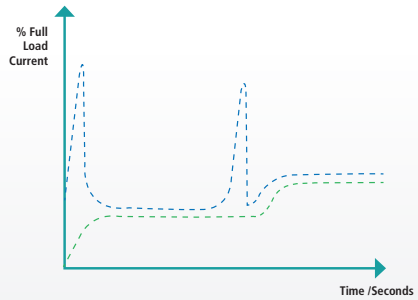
Smooth initial start-up

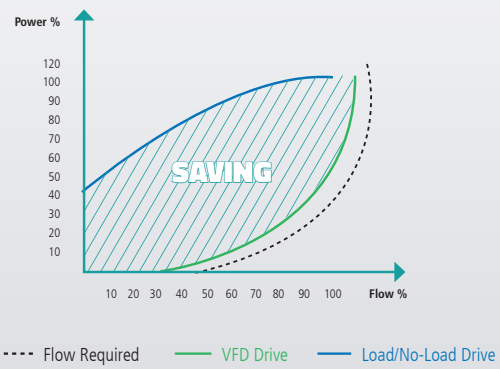
Because motor speed is controlled by the frequency inverter, the initial start-up is significantly simpler and smoother than wye-delta, direct connected compressors. Controlled motor speed also helps the motor and screw components last longer.

Variable Frequency Drive (VFD)

In manufacturing facilities, the need for air tends to fluctuate throughout the day for various reasons. Standard compressors continuously work in load/unload mode in order to satisfy changing air demands. A screw compressor working in unload mode spends about 30-35% of the installed motor power and wastes energy even though it does not produce any air.

In OASC D series compressors, the built-in frequency inverter adjusts the motor speed according to the actual air need of the facility. Achieving energy savings of up to 35%, these compressors help reduce operating costs.

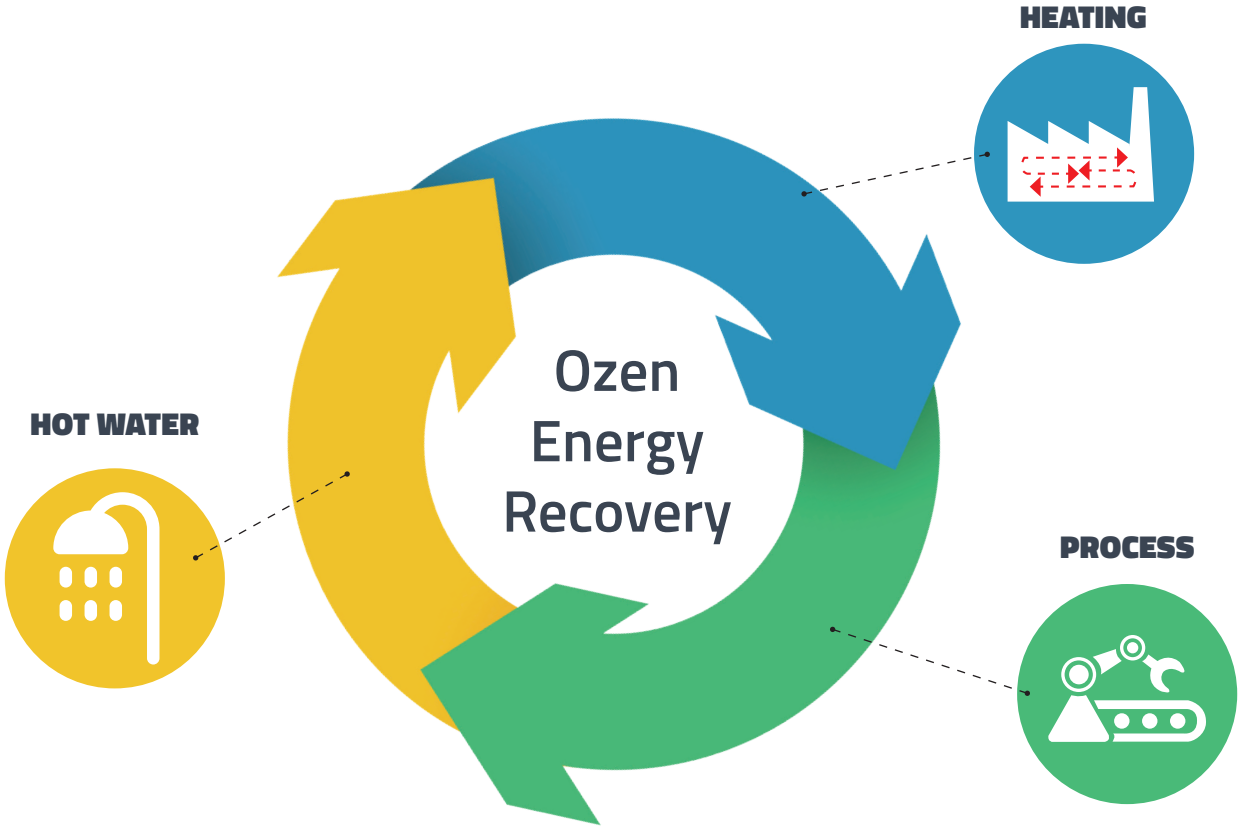




OER - Ozen Energy Recovery (Optional)

OASC D (37-315 kW)

Reduces operating costs by **recovering waste heat...**



Advantages

> Does not have any impact on compressor maintenance.

> Return of investment is 1 year.

> Reduces gas etc. consumption for heating and hot water

> Selecting for heat recovery not only lowers energy costs but also contributes greatly to the protection of the environment.

Improving energy efficiency is essential for the industry. Rising energy prices and growing environmental awareness increase the importance of waste heat recovery. 94% of the energy consumed by a compressor is converted into heat. This heat is released back into the atmosphere through the cooling system and by radiation. Not being able to make use of this waste heat has a negative effect on operating costs.

Ozen Energy Recovery solution makes it possible to use the waste heat generated by your compressor within the facility. The integrated heat exchanger recovers the heat, which can, then, be used for heating the factory and storage areas, as well as for hot water. This rather easy-to-implement system increases energy efficiency and provides operating cost savings.

Direct-Coupled Frequency Inverter Screw Compressor Series

Technical Specifications OASC D (37-315 kW)

MODEL	Max. Pressure		Capacity (FAD)				Motor Power		Noise Level	Weight	Diamensions inch		
	PSI	Bar	Cfm		m³/min		kW	hp	dB (A)	lbs	W	L	H
			min	max	min	max							
OASC D 37	100	6.9	39.6	242.7	1.12	6.87	37	50	75	1755	51.2	61.02	65.7
	125	8.6	39.9	219.3	1.13	6.21							
	150	10.3	39.6	202.1	1.12	5.72							
	190 *	13.1	39.6	170.8	1.12	4.84							
OASC D 45	100	6.9	39.6	291.1	1.12	8.24	45	60	75	1887	51.2	61.02	65.7
	125	8.6	39.9	264.5	1.13	7.49							
	150	10.3	39.6	245.5	1.12	6.95							
	190 *	13.1	39.6	209.7	1.12	5.94							
OASC D 55	100	6.9	39.6	357.3	1.12	10.12	55	75	76	2394	51.2	79.7	74.8
	125	8.6	39.9	323.1	1.13	9.15							
	150	10.3	39.6	297.8	1.12	8.43							
	190 *	13.1	39.6	248.8	1.12	7.05							
OASC D 75	100	6.9	92.2	481.8	2.61	13.64	75	100	76	3858	66.9	93.5	76.3
	125	8.6	89.3	436.1	2.53	12.35							
	150	10.3	87.6	404.7	2.48	11.46							
	190	13.1	83.0	349.5	2.35	9.90							

* Extended pressure (218 psi) option is available for OASC D 37 / OASC D 45 / OASC D 55
Compressor performance measured according to ISO 1217, Annex C Edt. 4 (2009).
Reference conditions: ▪ Absolute inlet pressure 14.5 psi (1 bar) ▪ Intake air temperature 68°F (20°C)

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MODEL	Max. Pressure		Capacity (FAD)				Motor Power		Noise Level	Weight	Diamensions inch		
	PSI	Bar	Cfm		m³/min		kW	hp	dB (A)	lbs	W	L	H
			min	max	min	max							
OASC D 90	100	6.9	92.2	566.4	2.61	16.04	90	125	77	5137	66.9	93.5	76.3
	125	8.6	89.3	512.0	2.53	14.50							
	150	10.3	87.6	475.4	2.48	13.46							
	190	13.1	83.0	411.9	2.35	11.66							
OASC D 110	100	6.9	158.2	736.5	4.48	20.85	110	150	77	6041	66.93	106.30	73.03
	125	8.6	152.6	650.3	4.32	18.41							
	150	10.3	148.0	590.6	4.19	16.72							
	190	13.1	138.1	482.2	3.91	13.65							
OASC D 150	100	6.9	158.2	906.9	4.48	25.68	132	180	72	7826	66.93	106.30	73.03
	125	8.6	152.6	814.4	4.32	23.06							
	150	10.3	148.0	733.8	4.19	20.78							
	190	13.1	138.1	613.8	3.91	17.38							
OASC D 200	100	6.9	341.1	1276.6	9.66	36.15	200	270	74	9987	86.61	145.67	80.91
	125	8.6	333.4	1126.9	9.44	31.91							
	150	10.3	326.7	1020.6	9.25	28.90							
	190	13.1	312.5	821.1	8.85	23.25							
OASC D 250	100	6.9	341.1	1575.7	9.66	44.62	250	340	77	13007	78.74	145.67	86.61
	125	8.6	333.4	1396.0	9.44	39.53							
	150	10.3	326.7	1272.4	9.25	36.03							
	190	13.1	312.5	1051.3	8.85	29.77							
OASC D 315	100	6.9	402.4	2072.8	11.39	58.70	315	430	77	14551	90.55	165.35	90.55
	125	8.6	467.2	1836.4	13.23	52.00							
	150	10.3	464.0	1673.8	13.14	47.40							
	190	13.1	448.6	1383.0	12.70	39.16							

FAD is measured at the following working pressures:
Reference conditions: ▪ 6,9 bar versions at 6,5 bar ▪ 8,6 bar versions at 8 bar ▪ 10,3 bar versions at 10 bar ▪ 13,1 bar versions at 12.5 bar

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Ozen AIR TECHNOLOGY

Ozen, all technical data and colors are subject to change without notice.