

ALYSEO®

WIND PROPELLER
AIR COMPRESSOR



TESEO®

www.teseoair.com

PIONEERS OF INNOVATION

FLUID POWER DISTRIBUTION SYSTEMS

ALYSEO_ SPIN YOUR ENERGY!



With the revolutionary wind propelled air compressor ALYSEO, Teseo is committed to saving the energy required for compressed air generation. Like electricity, compressed air is a fluid for energy transport, but more expensive – 10 times more expensive. Any factory or industry will be able to compensate compressed air losses in the production with the wind propelled compressor ALYSEO, without any electrical power supply.

This innovative machine offers various advantages: it's powered by a clean, free of charge renewable energy; it's designed with a simple and economical technology; it's not limited by wind direction; with the new wing profile air compression starts even with a light breeze. Energy is storable with air receivers under the form of compressed air; the entire structure is built in aluminum, 90% recyclable material.

TESEO DESIGN

MADE IN ITALY



Building on its expertise, TESEO offers design services from the perspective of energy efficiency and line sizing. The Customer must provide some technical data essential for TESEO's engineering department to design the required solution.

Find out
more!



+ PLUS

- + Free of charge renewable energy
- + Designed with a simple and economical technology
- + Energy is storable!
- + Built in aluminum, 90% recyclable material!
- + Reusable!
- + Energy saving



ALYSEO is the world's first wind-powered air compressor. Designed and patented by TESEO, a historic and innovative Italian company, ALYSEO allows the company to compensate for typical compressed air losses, without any power supply!

- Wind turbine with aluminum twisted blades 3 blades
- External diameter of the turbine 13.12 ft
- Orientation of the turbine Self-directional rudder

Wind turbine with aluminum twisted blades	3 blades
External diameter of the turbine	4 m
Orientation of the turbine	Self-directional rudder
Braking and blocking device	Electronic/Pneumatic
Maximum safe speed	16 m/s (57 km/h)
Volume of compressor air intake	0,4 l/revolution
Height of the support column	6,5 m - 12 m
Maximum compressed air pressure (within safety limits)	15 Bar
Air produced with 6 m/s wind (21,6 km/h)	4.100 l/h
Air produced with 8 m/s wind (28,8 km/h)	5.500 l/h
Air produced with 10 m/s wind (36,0 km/h)	6.800 l/h
Air produced with 12 m/s wind (43,2 km/h)	8.200 l/h

m/s	km/h	Nodes	Beaufort number	Wind description	Effect on land
<0,2	<0,7	<0,4	0	Calm	Smokes rises vertically.
1	3,6	2,1	1	Light air	Smoke drift indicates wind direction. Leaves and wind vanes are stationary.
2	7,2	4,2	2	Light breeze	Wind felt on exposed skin. Leaves rustle. Wind vanes begin to move.
3	10,8	6,3			
4	14,4	8,4	3	Gentle breeze	Leaves and small twigs constantly moving, light flags extended.
5	18	10,5			
6	21,6	12,6	4	Moderate breeze	Dust and loose paper raised. Small branches begin to move.
7	25,2	14,7			
8	28,8	16,8	5	Fresh breeze	Branches of a moderate size move. Small trees in leaf begin to sway.
9	32,4	18,9			
10	36	21			
11	39,6	23,1	6	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult.
12	43,2	25,2			
13	46,8	27,3			
14	50,4	29,4	7	High wind	Whole trees in motion. Effort needed to walk against the wind.
15	54	31,5			



**ECO-FRIENDLY
RECYCLABLE
WASTE-FREE**



**EASY AND QUICK
TO INSTALL
PLUG & PLAY**



**ZERO LEAKAGE
ENERGY-EFFICIENT**



**LOW COSTS
OPTIMISED COSTS**



**LONG-LASTING
DURABLE
LIFETIME WARRANTY**



**LIGHTWEIGHT
ROBUST
HIGH PERFORMANCE**



**DESIGN
CONSULTANCY
HIGH-TECH ENGINEERING**



**HIGH
ENERGY-SAVINGS**

plus

US

FREE CATALOGUE - NOT FOR SALE - TESEO TECHNICAL DEPT.

TESEO DESIGN AND QUALITY

All TESEO products are designed to meet a wide range of applications and industry needs. They provide fluid and electrical power from above, eliminating the clutter of floor-mounted piping that often hinders operators. In line with circular economy principles, TESEO systems help reduce waste and additional costs thanks to the use of aluminum – a naturally sustainable material – and the modularity of the components, which allows existing installations to be modified or expanded over time without generating waste.

The unique design of TESEO piping, combining a smooth internal bore typical of high-performance systems with a structural profile, makes it possible to create configurations and solutions that would be unthinkable with traditional systems.

This is backed by TESEO's technical team, offering consultancy and design services with a focus on workplace safety, energy efficiency and both environmental and economic sustainability. Every TESEO system is a tailor-made project – the result of passionate design, research and development – at the heart of a historic Italian Company that has made its mark on industrial design, revolutionising the way fluid distribution and compressed air systems are conceived.



TESEO SRL

Via degli Oleandri, 1
25015 Desenzano del Garda (BS)
ITALY

T. +39 030 9150411

www.alyseo.us

www.teseoair.us

teseo@teseoair.com



Follow us



Find out more



UNI EN ISO 9001



EN 13501-1:2007



2014/68/UE



ASME B31.1-B31.3



NOVEMBER 2024