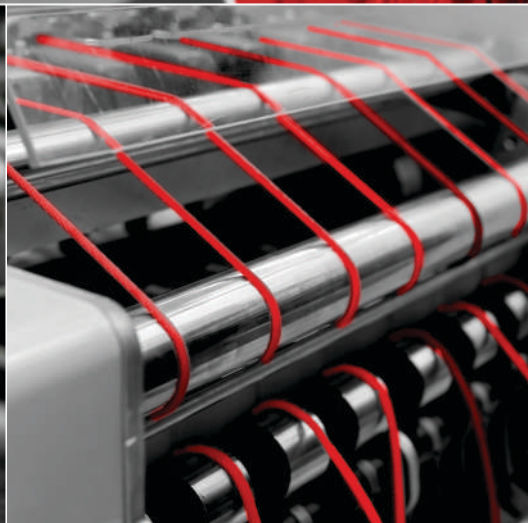


# Fabric to Fashion with Efficient compressed air



People.  
Passion.  
Performance.



Chicago  
Pneumatic

## IVR drive technology for variable demand



Variable Speed Control Rotary Compressor provides the most effective Return On Investment. In all industrial applications, compressed air consumption fluctuates hugely along the day. Load/ Unload regulating compressor cannot adapt to the demand, energy wasting increasing proportionally with the reduction of the air demand.

Potential saving  
**35%**

## Savings from Dryer

Choose the right dryer technology which can promise as high as 20% savings by opting for right mix of refrigerated and purge control desiccant dryers to meet your varying dew point requirement, so as to ensure lowest possible purge loss.

For refrigeration dryer, energy efficiency rely on the pressure drop performance through the dryer and the regulating method. Cycling dew point is the best choice.

Heatless technology with purge control lowers the air flow consumption and results in substantial savings for applications with critical dew point requirements.

Potential saving  
**20%**

## Drive Train

Rely upon flexible drive for <30KW and gear drive for >30KW for securing long term reliability and energy efficiency!

Direct or Gear Drive transmission requires more engineering precision to secure long term reliability. Exclude the first line Direct or Gear drive transmissions secure automatic alignment.

Potential saving  
**5%**

Lowest transmission power with high efficient motor, ensuring power saving

High reliability due to flexible connection

Element & motor bearing stress reduction increase lifetime.

Air end operating in the optimum zone

**7%**  
One bar

Potential saving  
**75%**

**11%**

Compressed air attributes to 11% of the total energy consumption, making it more iterative to look on to energy savings

Lower Internal pressure drop, lower package energy

1 bar pressure reduction = 7% energy saving

Longer lifetime, lower energy consumption



Tropical design with pressurized canopy ensures lowest compression ratio for given delivery pressure, thereby saving 3.3% power for you.



Chicago Pneumatic Filters maintains optimum package pressure drop upto 200mbar



AlRnet piping solutions assures lowest distribution losses, by pressure drop which is almost null. (use piping icon)

## Energy Recovery

Active Heat Recover is safe, easy to implement, to heat up water for supply your factory process at no cost.

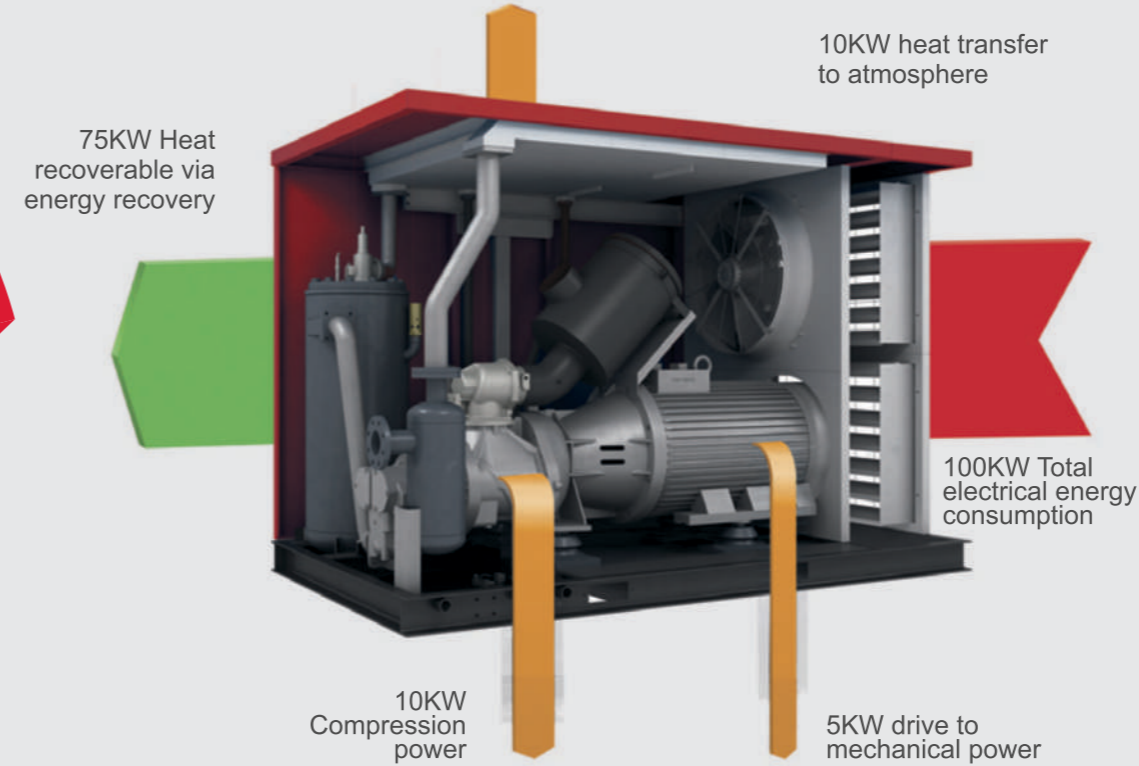
Prefer Active Heat Recover device (water cooled), integrated to the Rotary compressor, heating up a closed loop water circuit, the system supply warm water to multiple applications, all year round.



The second largest energy efficiency opportunity after the Variable Speed Control



Simple installation, no maintenance requirement



## We recover your energy

When air is compressed, heat is formed. The excess heat can be captured with an energy recovery option and channelled to other applications allowing you to save energy and cut costs.



**Heat recovery - Recover 75% of your energy**  
In the case of water-cooled or air-cooled compressors, the oil circuit is pre-cooled with an oil/water heat exchanger. Water then becomes the fluid transport media to recover the oil temperature. The hot water resulting from this process can be used to heat radiators or water boilers, pre-heat supply water or hot tap water, and other industrial applications. The energy recovery option integrates a heat exchanger on the oil circuit, which heats up the continuously pressurized water flow. The system is regulated automatically, and in case of limited water cooling capacity, the standard cooling system of the compressor will operate and backup the energy recovery device. The energy recovery option is a simple mechanical system that requires no maintenance or electricity consumption, but offers you significant reductions in your energy costs.

### High Quality Components

1	Gear driven transmission	5	ES4000 Controller
2	Separate oil / After coolers & Cooling fans	6	Efficient screw elements
3	Air/Oil Separation system	7	Air filtration
4	IE2 Main motor	8	Oil filters

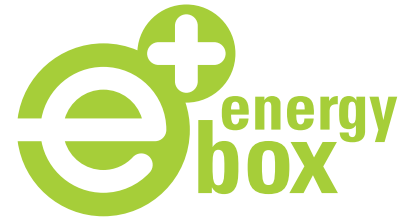
## Our efficient compressed air solution



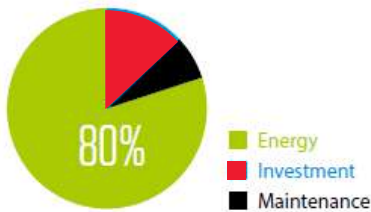
# Why energy recovery is important ?

Air compressors are big consumers of energy. In fact, over the lifetime of a compressor, Energy costs for a compressor is 80% of the life cycle cost of ownership. That's why recovering the compressor's energy means saving money.

The way to achieve this is by harnessing the compression heat. Even the most efficient compressor transforms up to 94% of the electric energy into heat. A large part of this heat is released into the atmosphere via the compressor's cooling system. With the Energy Box, you can recover up to 80% of this valuable thermal energy.



Total cost of ownership

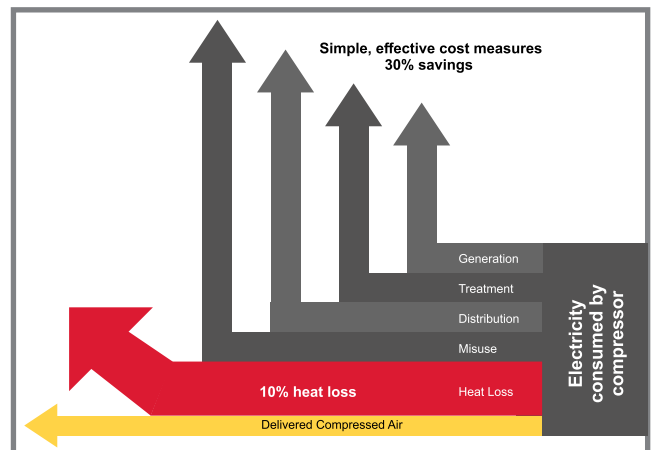
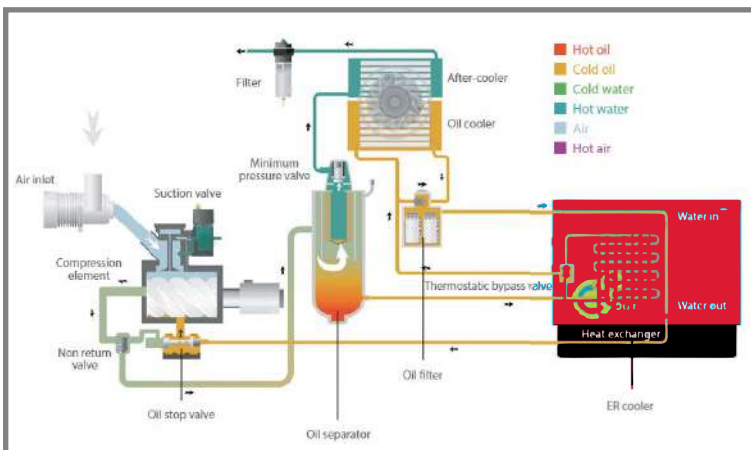


## How energy box works ?

The oil in an oil-injected rotary screw compressor absorbs the compression heat. Before being led to the oil cooler, the hot oil is diverted through a heat exchanger inside the Energy Box, where the heat is transferred to a water circuit.

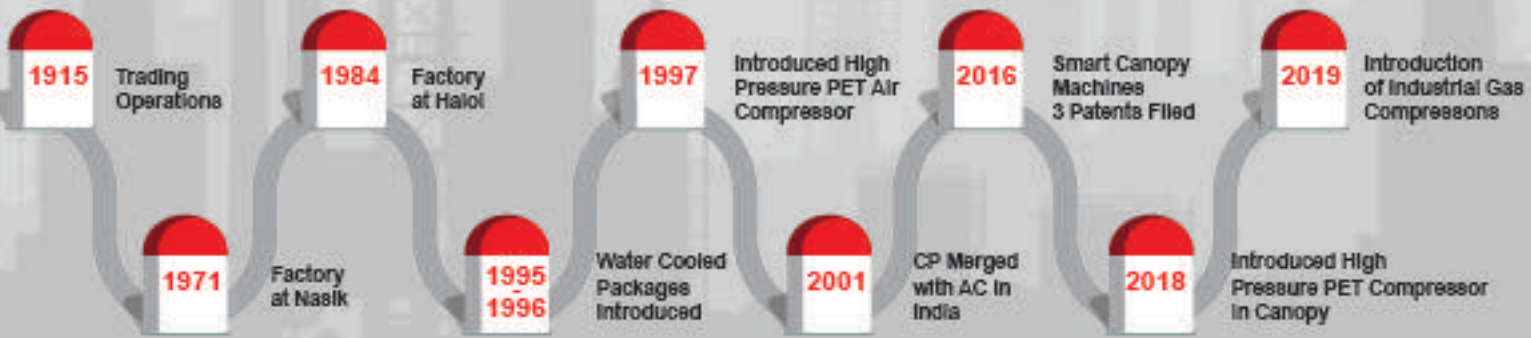
The amount of thermal energy recovered and money saved depends on the compressor's size and use factor (numbers of operating hours per year). Recovery of up to 80% can be achieved, and in the case of hot water, up to 90%.

	Oil Fired Boilers	Coal Fired Boilers
Installed Power	55 KW	55 KW
Effective Shaft power (95%)	54 KW	54 KW
Potential Recovery (70%)	38 KW	38 KW
CV of Fuel (KJ/KG)	47,700	4,500
Boiler Efficiency	90%	75%
Fuel Saving Per Year	30348 Litres	324 Tonnes
Savings per Year	18.20 Lacs	19.45 Lacs



# Chicago Pneumatic

100+ years of Industrial Excellence in India



**AIRNet Piping solution** : Fast, easy, reliable and clean distribution network for compressed air



**ICONS**: Intelligent connectivity system for remote monitoring of your compressor

## Service Integrity

Quality products ably supported by quality service!



At Chicago Pneumatic, it is our constant endeavour to provide you with the best equipment and service solutions. Our compressors are supported by a network of trained service professionals and easy availability of spare parts. We are available for any technical consultation to optimize the performance of your equipment and reliable operation. With a wide network spread across the country, we are never too far away to help you solve your problems, anytime, anywhere.

We value your feedback and continuously endeavour to improve our products and services.

**Original parts. Quality assurance.**

### Regional Customer Centers

Thane (W) (Maharashtra) | Gurgaon (Haryana) | Kolkata (West Bengal)  
Secunderabad (Telangana) | Bengaluru (Karnataka)

Area Offices: Ahmedabad, Baroda, Chandigarh, Chennai, Pune  
Resident offices: Colmbatore, Erode, Kochi, Jaipur, Raipur, Vizag



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Pune - 411012, Maharashtra, India.



Design  
Manufacturing, Sales and  
Service of Air Compressors,  
Air Dryers and Air Filters



ISO 9001, ISO 14001  
OHSAS 18001  
Forms an integral part of each business  
process of Chicago Pneumatic Compressors

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