

MEASURE, DISCOVER, SAVE (THE WORLD)



Let's be cool

> Breathe cool, fresh and clean air

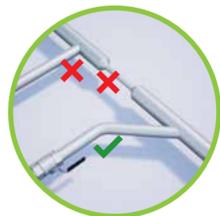
A compressor converts 90% of its power into heat. The compressor room heats up, while a compressor uses less energy to compress cold air. (3°C cooler air, already results in 1% energy saving.)



What do you need?

> Monitor and optimize your efficiency

Efficiency, the ratio between compressor output and kW input, is the key performance indicator of choice to optimize maintenance strategy and costs.



Create a smooth ride

> Reduce the pressure drop

A properly designed piping system allows air to flow smoothly. This results in less pressure drop. Use angular feed-ins at the main header. Avoid T-pieces and elbows as much as possible. Keep the average velocity in the pipe as low as possible. Use proper sized filters and driers. 0.1 Bar pressure drop over the filter requires 0.7% additional energy to maintain system pressure.



Get the complete picture

> Measure, monitor and manage

VPVision monitors your entire compressed air system from supply side to demand side. It can also be used as a complete energy management system for any plant seeking to sustain and improve the energy efficiencies they have achieved.



Relax and save

> Reduce the pressure

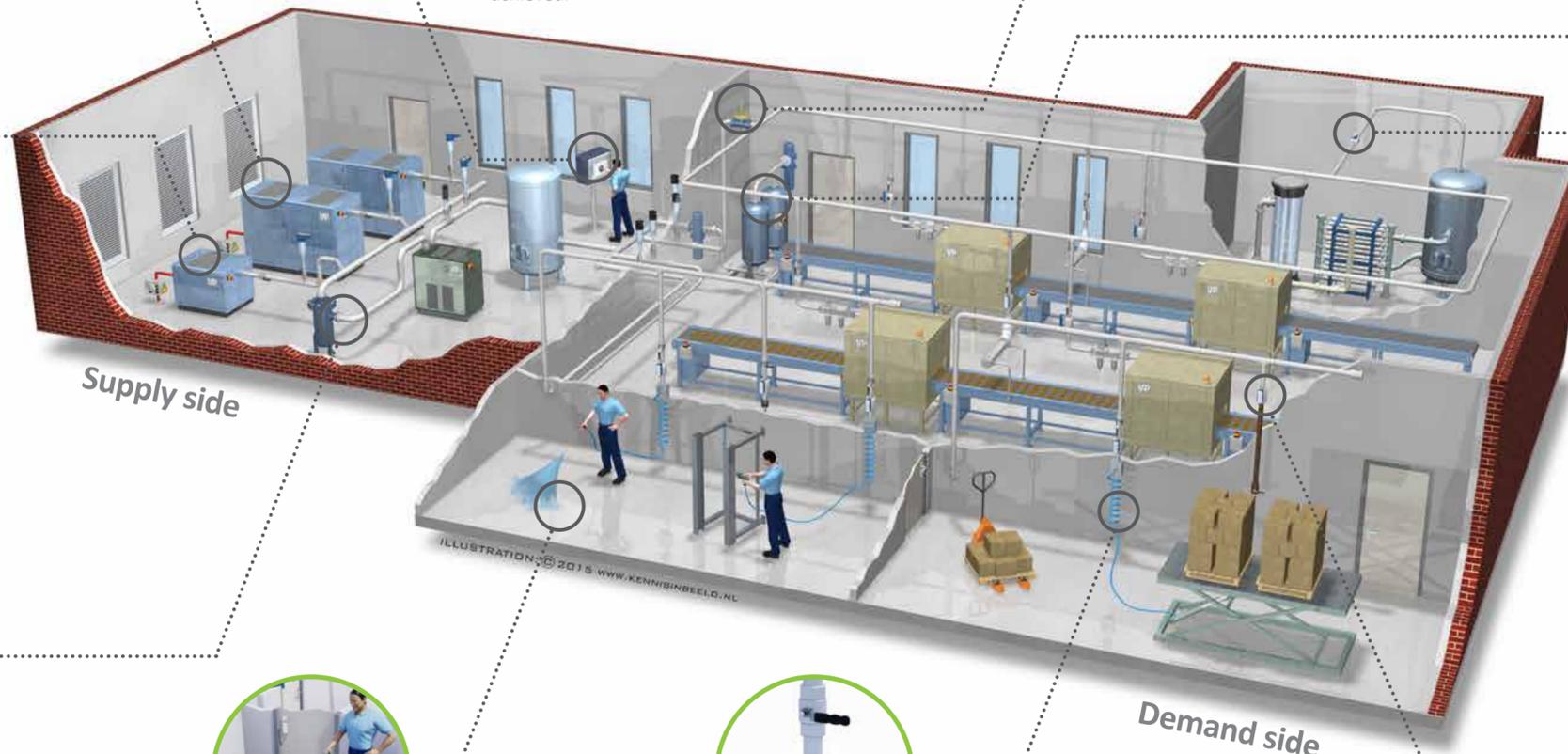
Every overall 1 bar pressure reduction gives an instant win of 7% on your energy consumption. You can also invest in pressure regulators per production area to reduce artificial demand.



Don't overdo it

> Be selective with air quality

If one sub-process needs an extra low dew point, place the adsorption drier at the entry point of that sub-process only.



Close the loop

> Measure the right ways

In ring networks and large compressed air systems with multiple receiver tanks, you need bi-directional flow meters to measure reverse flow.



Be smart

> Think of alternative uses

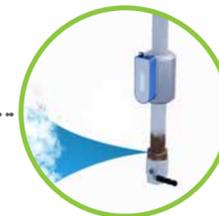
Do you really need a compressed air powered tool? Electric tools might be a better choice for some areas in your plant.



Air isn't free because it's there

> Shut off sections or machines when not in use

A simple manual or motorized shut off valve can save thousands of Euro's/ Dollars. Make sure that the air is not lost through leaks, or through machines blowing off in idle position (for example vacuum nozzles or air knives). Flow meters help determine where and when money is lost during standstill of machines.



Boost your profit

> Manage your leakage

In general there is 20-40% leakage in a compressed air installation. 0.5 Bar lower system pressure reduces air consumption with 4%. Invest in an ultrasound leak detector to find the leaks.

