

**konair**compressor.com

# **KONAIR** COMPRESSOR

## **INNOVATIVE TECHNOLOGY**

**KONITRO NITROGEN GAS  
CONTROLLER INJECT  
NITROGEN BY DIFFERENT  
PRESSURE RANGES TO  
PLASTIC RESIN INSIDE  
OF INJECTION MOULD**

It is possible to reduce production cost and increase product quality thanks to innovative technology nitrogen injection to injection moulding



**ALWAYS PROVIDE  
THE BEST**



### While injecting nitrogen by Konitro control equipment to plastic resin during moulding:

The pressurized nitrogen move to thick area by passing from less resistance area, create hollow tubes, the thick sections core out with nitrogen which provide light weight and strength to product, as result the plastic resin amount decreases, which provide saving from raw material cost.



The blank areas inside of the injection mould fill by plastic resin and nitrogen. By this way the compactor pressure disperses well to all sides of injection mould which provide well forming, create less air bubble and finally product surface have smooth finishing.

The injection pressure decreases because of nitrogen pressure, which provide energy saving.

The nitrogen offers quick cooling option to mould which provide shorting of moulding time.

The nitrogen decreases internal stress which help to decrease distortion and bending effects, by this way product quality increases.

The nitrogen requires less holes for filling in the mould, by this way more complex parts production is possible

The nitrogen bans sinking lines which is common difficulty for injection moulding, deterioration and deformity as well as flow lines decreases to minimum level, overall product quality rise up.

Nitrogen injecting to injection mould provide cost saving between 25-30%, as decreasing product weight, cycling time, raw material amount and required energy amount.





The Konitro Nitrogen controllers produce by Konair in Türkiye, offers these advantages by injecting nitrogen with different pressure ranges to injection mould.

Konitro nitrogen injection controller produce by Konair is ready for serving at your plant thanks to compact structure.

The innovative technology product Konitro nitrogen injection controller delivers together with nitrogen generator and high pressure compressor which are also producing by Konair Compressors. The complete system installation and start up as well as operating education are including in standard scope of supply.

**Material test production provide by Konair in your plant.  
Konair always at your disposal for product development  
and mould designing**

Working Pressure Range  
5 to 300 bar

Ergonomic canopy

Single or double independent  
ways for supply

High pressure valve for  
each pressure cycle

Easy to use by 12"  
screen option

Integrated high pressure  
filter of 25 µm

Automatic or Manuel  
option for mould cleaning

Inlet purge valve integrated

Precision  $\pm 2$  bar max  
Reactivity adjustment

Remote control (optional)

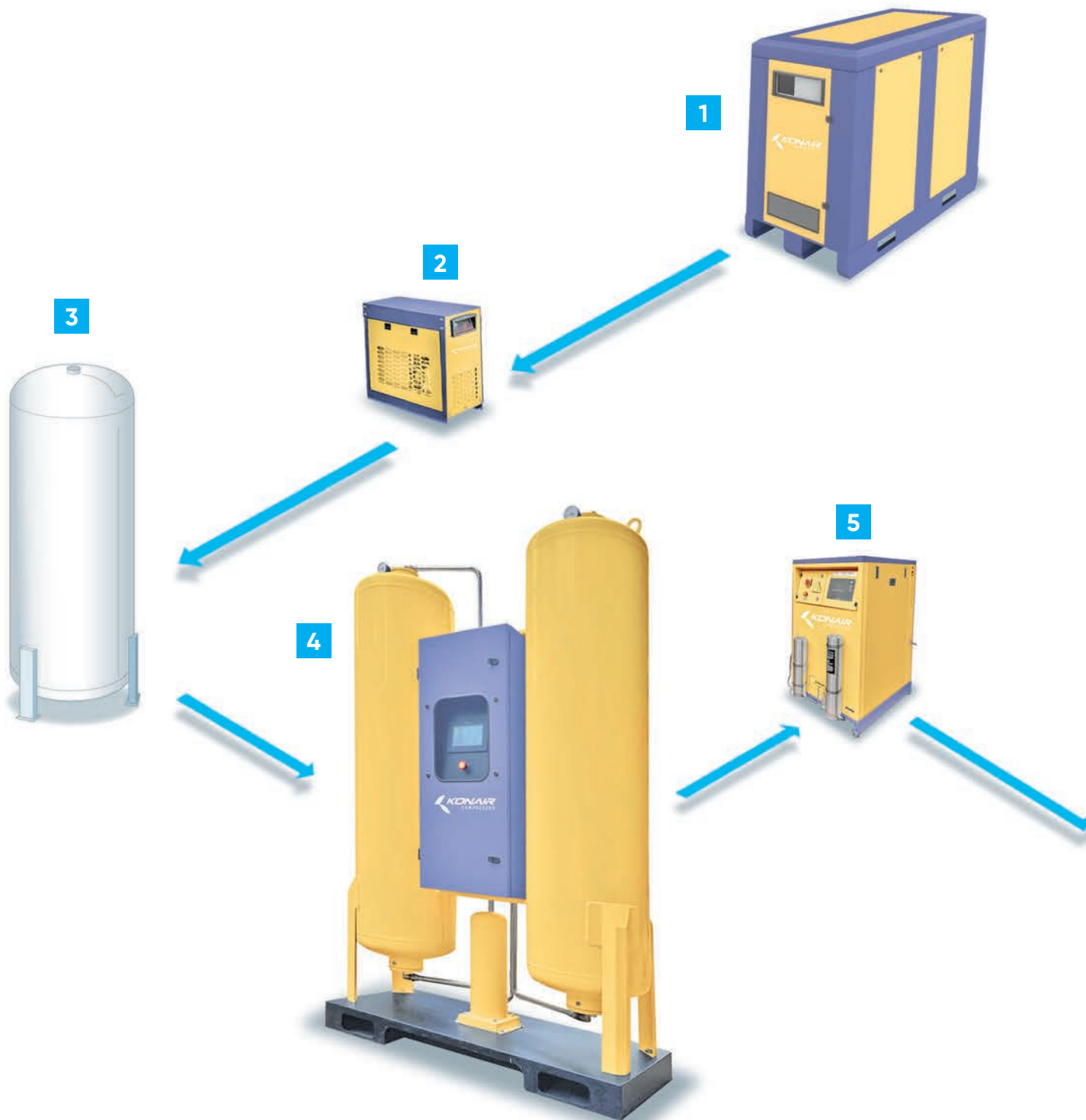
Gas consumption monitoring  
per channel (optional)

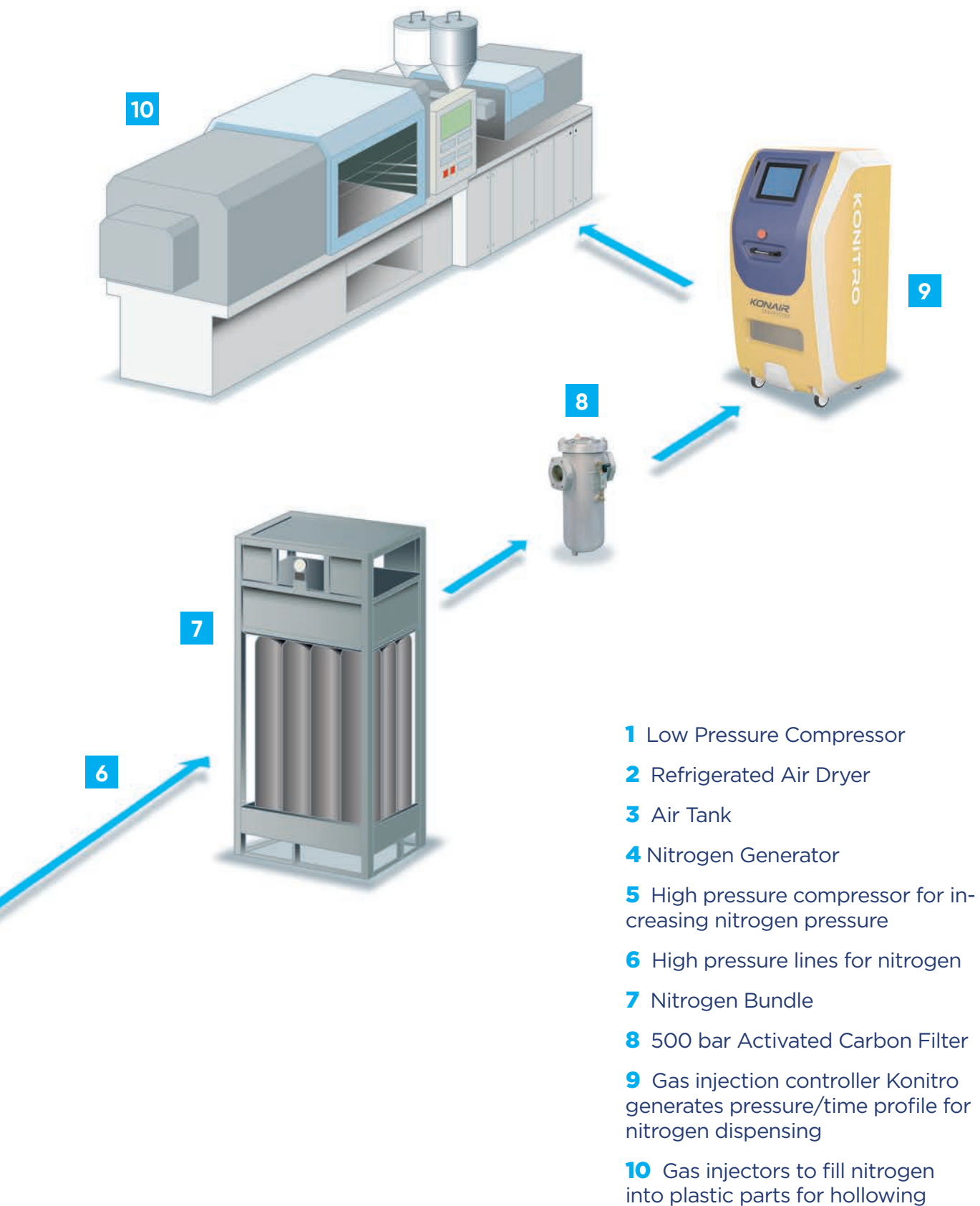




## SYSTEM LAY OUT

Konair Compressors offering solution for plastic injection with cost saving option.







#### HEADQUARTERS:



Yazır Mah. Öztekinler Sk. F Blok  
No: 48/13 Selçuklu/KONYA/TURKEY



+90 538 **779 90 60**



[www.konaircompressor.com](http://www.konaircompressor.com)



[info@konaircompressor.com](mailto:info@konaircompressor.com)