Innovative heating systems

High efficiency heating solutions for low and medium powers applications, a result of extensive R&D on magnetic induction technology

- up to 70% energy savings
- reduced warm up times up to 50%
- low operating costs
- engineered solutions for industrial applications

Cutting down energy costs has never been so easy!

induction atos®

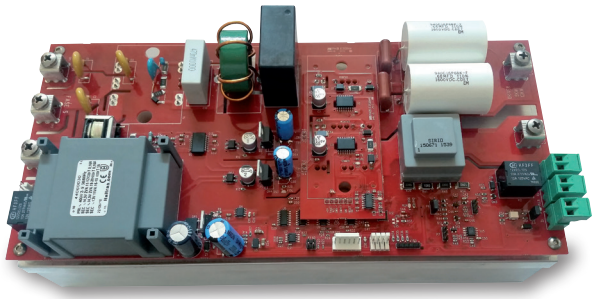
Medium frequency resonant generators

Designed to supply Atos inductive heating systems, they generate electric currents at variable frequencies, perfectly combined with their electrical and mechanical characteristics

Their overall dimensions are small, thanks to solid state technology, and provide maximum efficiency and heating performance

The internal microprocessor monitors the operating status of the heating system, stabilizes the power supplied and optimizes the working frequency

Atos generators can be perfectly integrated into any automation system via analog or fieldbus interfaces and are available with powers ranging from 1 to 15 kW



GP	-	01 05	-	XE	/	T	-	380-50/60 Vac	*

GP — Power generator

01 05 — Size & output power

Size 01	Size 02	
01 = 1 kW	07 = 7 kW	13 = 13 kW
02 = 2 kW	08 = 8 kW	14 = 14 kW
03 = 3 kW	09 = 9 kW	15 = 15 kW
04 = 4 kW	10 = 10 kW	
05 = 5 kW	11 = 11 kW	
06 = 6 kW	12 = 12 kW	

XE — Options
- = with electric box
XE = without electric box

T — Power supply
M = Single phase
T = Three phase

380-50/60 Vac — Supply voltage
- = Single phase
380-50/60 Vac = Three phase
440/60 Vac = Three phase

***** — Series number

Plasticizing inductive heating systems

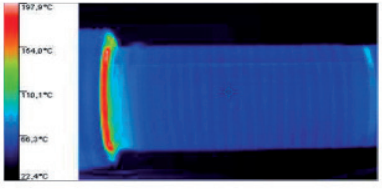
PATENT PENDING

Innovative heating solutions for the plasticizing of plastic and rubber, assembled with standard modules with closed windings, for new machines, or open windings, for existing ones. Electric power levels from 1 kW to 15 kW

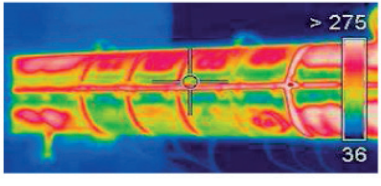
Modular construction allows for optimal configurations for any application, offering significant advantages with respect to traditional resistive plasticizing systems:

- valuable energy savings
- uniform temperature distribution
- quick start-up & easy regulation
- excellent dynamics & time response
- elimination of heating delays & thermal inertias
- easy installation and reduced maintenance

Atos inductive systems



Traditional resistive system



I	-	BA	-	01	-	***	/	***	-	****	*

Induction heating element

Coil type
BA = open
BC = closed

Max output power

01 = 1 kW	06 = 6 kW	11 = 11 kW
02 = 2 kW	07 = 7 kW	12 = 12 kW
03 = 3 kW	08 = 8 kW	13 = 13 kW
04 = 4 kW	09 = 9 kW	14 = 14 kW
05 = 5 kW	10 = 10 kW	15 = 15 kW

Internal diameter (mm)

Length (mm)

Wire length (mm)

Series number

Inductive heating systems for molds

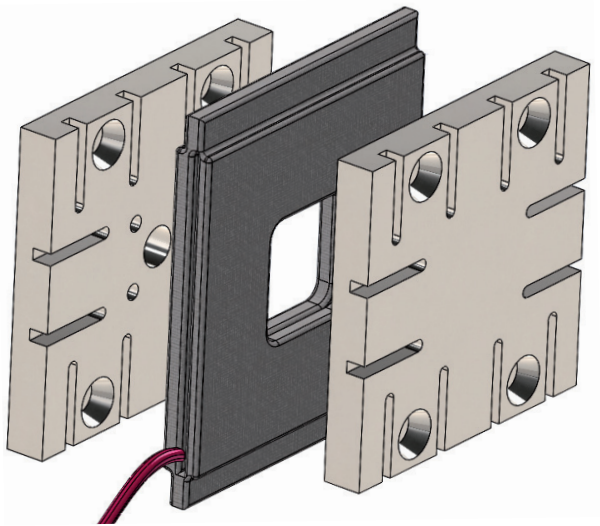
PATENT PENDING

Atos heating blankets are the ideal solution for pre-heating or reheating magnetic and non-magnetic molds of any size and shape

Thanks to the innovative inductive technology and original design, Atos blankets offer the following advantages, with respect to traditional heaters:

- high speed heating cycles (up to 50% shorter)
- energy savings from 30% to 50%
- easy installation and start up
- custom tailored solutions to best suit any specific application

Blanket for steel deformation moulds



Blanket for rubber injection moulds

Inductive heating systems for fluids

PATENT PENDING

Max working pressure: 30 bar
Max heating temperature: 250°C

Atos innovative fluids heaters exploit the heat produced by the parasitic currents passing in their conductive material to achieve uniform and homogeneous heating of the fluid that flows there

The wide range of standard sizes and the availability of customized solutions make it possible to satisfy any application

- maximum heat exchange per unit volume
- compatibility with high viscosity fluids
- high mixing without stagnation points
- extreme reliability and simple maintainability

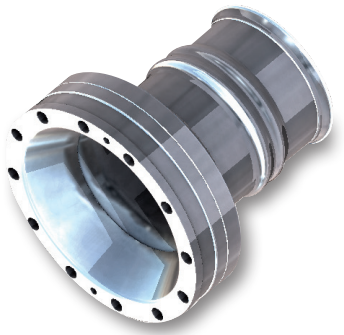
Innovative air cooling systems

PATENT PENDING

The cooling function is obtained by means of a small flow of compressed air which, flowing through the internal surfaces of the system, expands and creates a large flow of air (about x25)

They can be easily coupled with Atos inductive heaters to obtain a complete temperature control device

- max cooling capacity with compact dimensions
- simple design for maximum reliability
- made of non-magnetic materials and without moving parts
- easy installation in any industrial application



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innovative heating systems

Atos innovative heating systems grants up to 70% energy savings
Cutting down energy costs in industrial production has never been so easy!

Atos systems are CE certified and comply
with all electromagnetic emissions directives

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