

ASSO Tris is a patented system, designed to heat the compressed air feeding the spray gun or other items of equipment used during painting or the application of other fluids that require the use of compressed air guns.

Thanks to the highly innovative and patented nature of the product design and the technologies used to build the system, **ASSO Tris** offers significant advantages over other heating systems already available, e.g.:

- The ability to keep the selected temperature constant, adjusting itself continuously without uncontrolled temperature spikes or random "on/off" effects typical of systems that use electrical resistance heating elements either upstream or inside the hose.
- No restriction with the length of the hose that feeds the gun (12 meters is standard on ASSO Tris), because the technology used heats only the end section nearest to the outlet of the compressed air supply.
- Reduced energy consumption (e.g. 60w at 30⁰C), about ten times less compared to systems using thermocouples or electric resistance.
- The small size and light weight of ASSO Tris control unit allows an easy installation within most professional painting set-ups, ideally directly after the filtration and drying systems already present in the plant.

This system consists of four elements:

- **The ASSO BOX** – the central power box is easy to install, light and compact – just connect the compressed air and the electricity supply. The rotary selector switch provides simple control of on/off and selection of the desired temperature (30-40-50°C) for the compressed air.

- **The ASSO HOSE** – this is the heart of the system, consisting of a light and flexible heating hose, available in 12 or 24 meters length.

- **The ASSO HOSE COVER** – this is a protective hose cover made of a special plastic material, providing external protection of the heating hose and making it more durable.

- **The ASSO END CONNECTION** - the final 1.5 meter section of the hose is smaller and lighter so as to provide ease of handling during painting and incorporating a 1/4" BSP female thread for connection to most common spray guns or airbrushes.

WHY HEAT THE AIR?

Often the air coming from the compressor has a much lower temperature compared to the local environment but this temperature is rarely, if ever, constant, preventing proper calibration and setting of the typical adjustments that make up a professional painting system or other application systems.

Having the compressed air at constant temperature therefore allows the user to have many practical advantages such as:

1. Energy saving due to there being no need to excessively heat the painting areas – lower costs;
2. Reduction of application defects and better spread of the paint product – less polishing time;
3. Rapid application/drying with a corresponding saving of time (up to 50%);
4. Lower consumption of coating materials (up to 25% subject to process).

Asso Tris Compressed Air heater Technical data		
Dimensions - control box	mm	214 (h) x 164 (w) x 80 (d)
Compressed Air Connection	BSP	1/4"
Power Consumption	W (°C)	60 (30°C) - 160 (40°C) - 220 (50°C)
Power supply	VAC - Hz	230-50 (+/- 10%) or 155-60
Maximum power	Watts (W)	220
Maximum current (peak)	Amps (a)	2a
Output air temperature	°C	30° - 40° - 50°C (+/- 10%)
Input air temperature range	°C	from +1 to +50°C
Ambient temperature range	°C	from +1 to +40°C
<u>Flexible hose</u>		
Material	Inner tube	Smooth, black EPDM
	Reinforcement	Manmade fabrics
	Cover	Smooth, black EPDM rubber, resistant to high temperature, abrasion, weather conditions and ozone.
Length	Metres (m)	12 or 24
Diameter	mm	13/19 (main) and 8/14 (final 1.5 metres)

