

POROUS BURNER TECHNOLOGY
WWW.PROMEOS.COM

 **promeos**[®]
HEATELLIGENCE



heattube & heatcube

The gas-operated hot air blowers from promeos[®] perform better and reduce the operating costs by up to 80%

GAS INSTEAD OF ELECTRICITY – ECONOMIC AND ECOLOGICAL

We deliver hot air blowers in three device categories

The hot air blowers with flameless burner technology from promeos® are the future-orientated solution regarding economic efficiency and climate protection. They can be used in very diverse applications.

Instead of electricity, the devices operate with cost-effective gas, and the CO₂ emissions are significantly reduced. They cover constant and operationally reliable temperatures from 150°C to 800°C.

Actuation can take place using an integrated controller or an external system interface. The electrically operated hot air blowers which were previously used can be simply replaced. Normal commercial types of nozzle which may have already been in use can continue to be used.



YOUR BENEFITS

- ⚡ Reduction in operating costs of up to 80%
- ⚡ ROI guaranteed in 24 months
- ⚡ More robust than electric hot air blowers
- ⚡ Use of commercially available/existing nozzle forms is possible
- ⚡ Fast availability of the hot air
- ⚡ Continuously variable temperature control
- ⚡ Compact design, flexible and mobile

OUR PROMISE

- ⚡ Flameless and thus climate-friendly burning
- ⚡ Can be used with natural gas or liquefied gas, special gases upon request
- ⚡ Temperature range 150°C to 800°C
- ⚡ Integrated air filter for operation in challenging environments
- ⚡ Thermal power from 10 to 360 kW; further power levels up to 1,500 kW are possible

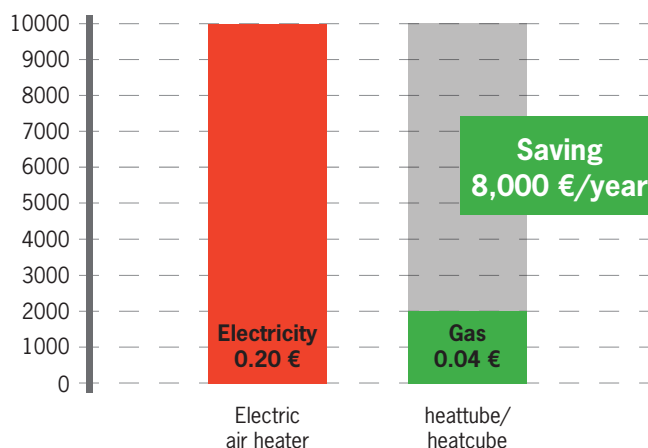
EXAMPLE

Power:
10 kW

Operating hours/year:
5,000 h/a

Energy/year:
50,000 kWh/a

Operating costs/year in €



PROMEOS® HEAT SOLUTIONS – IN SERIES

We deliver hot air blowers in three device categories,
designed for many diverse application areas



heattube (small)
HOT AIR BLOWER

P = 10 kW, 30 kW
T = 100 °C – 800 °C



heatcube (medium)
HOT AIR GENERATOR

P = 36 kW, 60 kW, 80 kW
T = 100 °C – 800 °C



heatcube (large)
HOT AIR GENERATOR

P = 120 kW, 240 kW, 360 kW
T = 100 °C – 450 °C, 600 °C

heattube – based on the patented promeos® technology, our heattube delivers warm air up to 800 °C. At the same time, the design is compact and robust. All components for the generation of controlled gas/air mixture, as well as the safety and control electronics, are mounted in a protective housing. The connection takes place via flexible hoses. Along with the simple substitution of the traditional solutions and the integration in existing environments and infrastructures, the promeos® heattube devices are proven also in mobile applications.

heatcube – For power levels from 36kW to 360kW, the promeos® heatcube delivers smart heat at low costs and with lower emissions. In two designs (medium and large) and with integrated or external secondary air blower, an optimal integration or improvement of the existing processes is possible.

TECHNICAL DATA	heattube 10 kW	heattube 30 kW	heatcube medium	heatcube large
Heating power (min - max)	4 kW – 10 kW	10 kW – 30 kW	40 kW – 80 kW	120 kW – 360 kW
Temperature range	150 °C – 800 °C	150 °C – 800 °C	300 °C – 500 °C	200 °C – 600 °C
Volume flow rate (min - max)	45 m³/h – 150 m³/h	130 m³/h – 450 m³/h	820 m³/h – 1300 m³/h	1800 m³/h – 9450 m³/h
Diameter, outlet	Ø92 mm	Ø180 mm	DN 150	DN180 - DN300
Heater head total length 364 mm	457 mm	364 mm	457 mm	
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz	400 V, 50 Hz
Electric power	1.5 kW	1.5 kW	1.5 kW	3-6.9 kW
Gas type	natural gas or liquefied gas	natural gas or liquefied gas	natural gas or liquefied gas	natural gas or liquefied gas
Gas connection	20-60 mbar	20-60 mbar	20-60 mbar	50-100 mbar
Max. counter-pressure	10 mbar	10 mbar	10 mbar	10 mbar
Exhaust gas emissions	CO < 20ppm, NOx < 30ppm up to -30% CO ₂ equivalent	CO < 20ppm, NOx < 30ppm up to -30% CO ₂ equivalent	CO < 20ppm, NOx < 30ppm up to -30% CO ₂ equivalent	CO < 20ppm, NOx < 30ppm up to -30% CO ₂ equivalent
Noise emissions	< 75db	< 75db	< 75db	< 75db



PROMEOS® HEAT SOLUTIONS – SPECIAL DEVICES

Our solution for your process, as versatile as your requirements

In order to be able to offer the respectively best solution to our clients, we have developed a wide spectrum of hot air products. In addition, we also offer devices up to 1,500 kW, which are specially designed to your requirements.

Every day we meet new challenges and show thereby that there are better solutions: Open eyes – convince – build references – convey enthusiasm – sustainably change the markets. The thereby obtained manifold competences in the areas of metal engineering and fireproofing

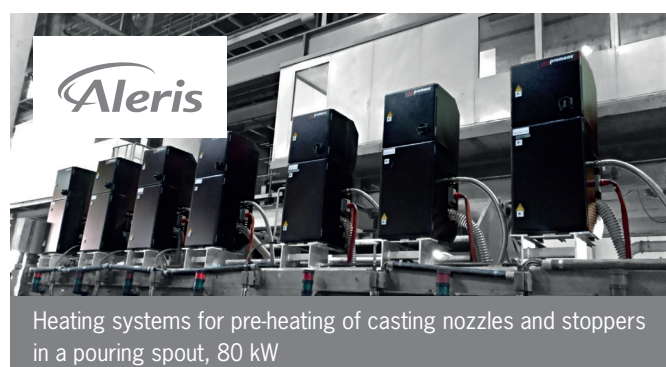
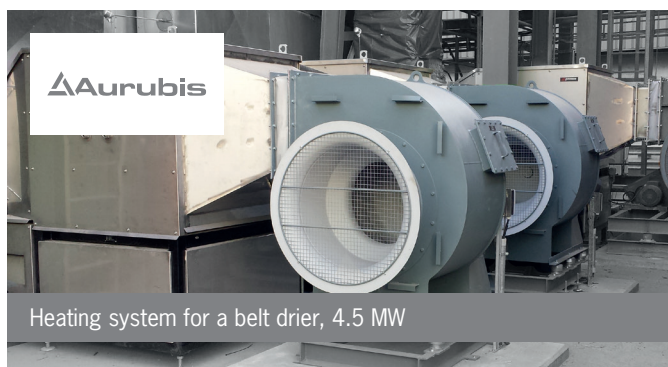
construction, measurement, control and regulation technology, as well as in the safety and control-technological integration in the client-manufacturing processes, permit us, in addition, to communicate with the device manufacturers at eye level. Together we find always the best possible product solution – simple, consolidated, appropriate.

We realise further performance levels of up to 1,500kW upon request.



REFERENCES – APPLICATIONS

Many clients in various industries already trust our hot air products



We have a great number of clients worldwide.
Please find an excerpt of our references below:



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