



GAS HEATERS

Water Bath Heaters (RAL)

PGME's water bath heater is designed to heat high volumes of gas. A coil is plunged in a bath of water, which water is heated by a controlled combustion new generation burner. PGME specifically studies each application to find the best compromise cost / dimension / efficiency.

In the combustion chamber a heat exchange with the regulated temperature of the bath of water regulates the gas temperature in order to deliver the needed temperature.

Combustion control reduces gas combustion consumption, and air emissions and allows a higher energy efficiency while reducing the facilities' size.

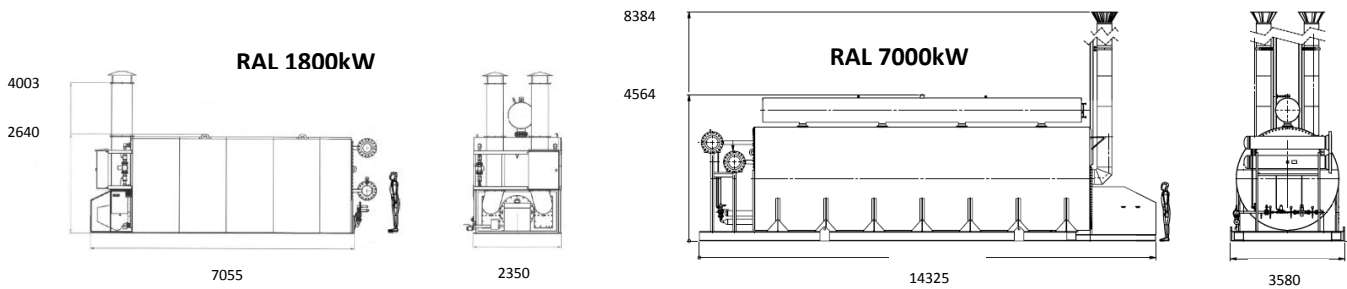


SPECIFICATIONS STANDARDS	
Power coverage	40 – 10 000 kW
Pressure rating	< 150bar
Flow rates	From 500 to 200 000 Nm ³ /h
Consumption	0.7 m ³ for 1 000 m ³ treated
Efficiency	≥85%
Discharge	NOx ≤ 230 mg/kWh CO < 100 mg/m ³ (n) SO2 < 35 mg/m ³ (n)
Sound level	<80dBA à 1.5m
Product design code	CODAP - ASME
Material	Steel or Stainless Steel
Type of Burner	Pulsed air
Options	Atmospheric burner Solar panel powered Wind powered or Peltier effect

This is a non-exhaustive list, any request can be studied



Outline drawing (for example)



Electrical heater

PGME's electrical gas heater is made of one or several immersion heater, placed in a metallic device.

This design is particularly adapted to low flows, for a very good rate cost in use/efficiency.

Fluid temperature is regulated by a temperature sensor placed on the pipeline.



STANDARDS SPECIFICATIONS	
Power coverage	10 – 80 kW
Flow rating	< 20 000 Nm ³ /h
Pressure rating	< 150 bar
Product design code	CODAP - ASME
Electric cabinet	IP 65 – ATEX
Material	Steel or Stainless Steel
Power regulation	High frequency unit and flow are taken into account to define precisely the required power.

This is a non-exhaustive list, any request is studied

Transport and Setting up

PGME offers an overall service: implementation studies, transport, integration in ATEX zone, site setting-up supervision, after-sales services and specific maintenance agreement.

