

# CATALYTIC + RHT

INFRAGAS INFRARED GAS SYSTEMS



# RHT

## RADIANT HIGH TEMPERATURE

RHT burners are a safe and reliable source of heat generated by a gas combustion (Natural Gas or Propane) and transmitted through infrared rays in short wavelength. The infrared energy emitted by the RHT radiant surface is absorbed by the exposed materials fast and uniformly. They are specific for thermal processes that require high temperatures or rapid curing time (for example thermal increase on metal parts, moulds, powder melting, etc.).

Frame and body of the RHT are totally made with specific stainless steel for high temperature working conditions. Each burner is equipped with a control and pre-mix system with a calibrated mixture of air/gas.

The RHT operate in a range of power from 100% to 50% and are ready to be installed



RHT are made by Infragas in conformity with the requirements of the International Standard ISO 9001 and are checked individually before any dispatch.



RHT burners are available in different sizes and configurations for specific thermal treatments:

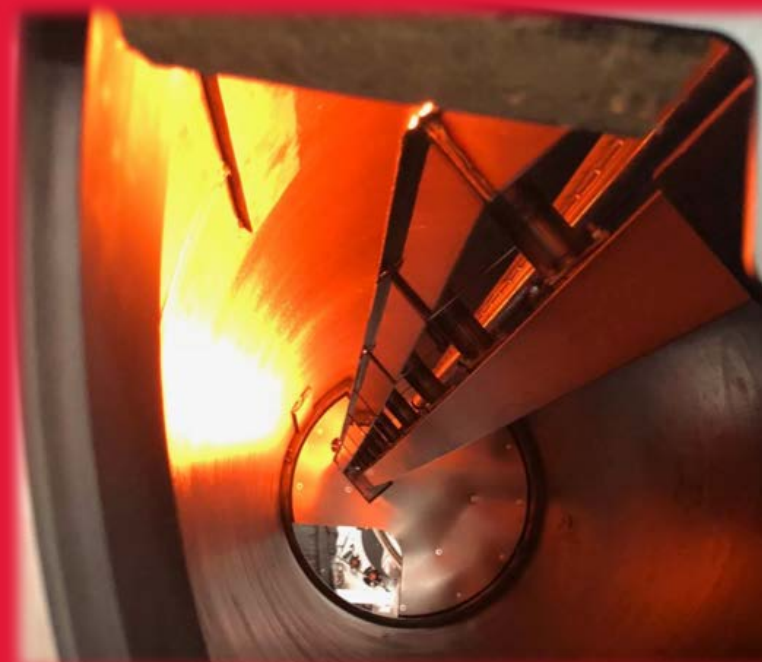
MODEL	SIZE mm	POWER max-min	CONSUMPTION Natural Gas max-min	CONSUMPTION Propane max-min
RHT-2c	140x765	20-10 kW	2,0 – 1,0 m <sup>3</sup> /h	1,5 – 0,7 kg/h
RHT-3c	140x1150	30-15 kW	3,0 – 1,5 m <sup>3</sup> /h	2,2– 1,1 kg/h
RHT-4c	140x1530	40-20 kW	4,0 – 2,0 m <sup>3</sup> /h	3,0 – 1,5 kg/h
RHT-5c	140x1915	50-25 kW	5,0 – 2,5 m <sup>3</sup> /h	3,7 – 1,8 kg/h
RHT-6c	140x2295	60-30 kW	6,0 – 3,0 m <sup>3</sup> /h	4,5 – 2,2 kg/h
RHT-7c	140x2680	70-35 kW	7,0 – 3,5 m <sup>3</sup> /h	5,3 – 2,6 kg/h
RHT-8c	140x3065	80-40 kW	8,0 – 4,0 m <sup>3</sup> /h	6,0 – 3,0 kg/h
RHT-2l	380x285	20-10 kW	2,0 – 1,0 m <sup>3</sup> /h	1,5 – 0,7 kg/h
RHT-3l	380x430	30-15 kW	3,0 – 1,5 m <sup>3</sup> /h	2,2– 1,1 kg/h
RHT-4l	380x570	40-20 kW	4,0 – 2,0 m <sup>3</sup> /h	3,0 – 1,5 kg/h
RHT-5l	380x715	50-25 kW	5,0 – 2,5 m <sup>3</sup> /h	3,7 – 1,8 kg/h
RHT-6l	380x855	60-30 kW	6,0 – 3,0 m <sup>3</sup> /h	4,5 – 2,2 kg/h
RHT-7l	380x1000	70-35 kW	7,0 – 3,5 m <sup>3</sup> /h	5,3 – 2,6 kg/h
RHT-8l	380x1145	80-40 kW	8,0 – 4,0 m <sup>3</sup> /h	6,0 – 3,0 kg/h

Infragas manufactures two RHT versions:  
 STANDING-ALONE for each independent unit;  
 REMOTIZED for connection to a main PLC (Programmable Logic Controller).

With reference to the environment respect, it is important to take into consideration that the surface microflame combustion with the metal fibre burner emits extremely low levels of NOx, CO and unburned.

# RHT

- RADIANT HIGH TEMPERATURE
- INFRARED RADIATION
- PRE-MIX AIR AND GAS
- EASY TO INSTALL
- QUICK START-UP
- POWER MODULATION
- UNIFORM THERMAL TREATMENTS
- FLEXIBILITY
- ENVIRONMENT RESPECT
- SAFETY
- STANDING-ALONE OR REMOTIZED CONTROL BY PLC
- COMPLETE EQUIPMENT, READY TO BE INSTALLED



FEED GAS	Natural Gas or Propane
GAS PRESSURE	Operative range 15-65 mbar (1,5-6,5 kPa; 150-650 mm H <sub>2</sub> O)
VOLTAGE	230V 50-60 Hz (24V – 12V upon request)
PRE-MIX SYSTEM	<p>Control system for each RHT burner equipped with the following components:</p> <ul style="list-style-type: none"> <li>▪ PRE-MIX AIR/GAS</li> <li>▪ ELECTRONIC CARD</li> <li>▪ STABILIZER</li> <li>▪ FLAME CONTROL AND IGNITION</li> <li>▪ POWER MODULATION</li> <li>▪ CONTROL DISPLAY</li> <li>▪ AIR FILTER</li> <li>▪ CABLES between control cabinet and burner</li> <li>▪ INLET GAS CONNECTION 3/4".</li> </ul> <p>Each system is equipped with connection hose to the radiant burner, length 700 mm</p>
ACCESSORIES upon request	<ul style="list-style-type: none"> <li>▪ Connection to K type thermocouple or IR sensor for temperature detection and automatic power setting</li> <li>▪ Kit 24/12V (with inverter)</li> <li>▪ Presetting for remote control of the system</li> </ul>



**RHT: INFRAGAS TECHNOLOGY FOR HIGH TEMPERATURES**