

LISTING & TESTING DIVISION

PRODUCT: Gas Burner Systems

Issued: August 2018
Revised: NA

MANUFACTURER:

Subject to Review :
August 2019

PLANT LOCATION: Same

CATEGORY: Decorative Gas Appliances For Installation in Natural Gas Burning Fireplaces

SECTION 1: INTRODUCTION

At the request of Masonry Fireplace Industries, LLC, RADCO conducted a third party field evaluation and performance test program on custom built decorative gas fireplaces: Masonry Fireplace Models and Artisan Series Models. RADCO's program was developed and conducted utilizing applicable portions of the following codes and nationally recognized standards, as well as industry accepted practices for decorative gas appliances:

- 1) ANSI Z21.50 Vented Decorative Gas Appliances
- 2) ANSI Z223.1 National Gas Fuel Code
- 3) NFPA 54 National Fuel Gas Code
- 4) 2011 California Mechanical Code

SECTION 2: PRODUCT EVALUATION

- 1) Fuel Supply System
- 2) Burners and Ignition System
- 3) Fireplace Construction
- 4) Venting Systems
- 5) Installation Details

SECTION 3: FINDINGS

Based on RADCO's third party product evaluation and performance testing program it has been determined that the design, construction, and installation of the gas-fired decorative appliance described in Section 4 and Table 1 below comply with the applicable portions of the codes and standards indicated in Section 1 above and that the normal operation of this appliance will not have an adverse effect on their adjacent surroundings.

SECTION 4: DESCRIPTION

A. The decorative gas-fired appliance is a fireplace intended for installation in a residence or in a commercial setting. The fireplace is manufactured by Masonry Fireplace Industries, LLC and are modular refractory units designed for field assembly. The units consist of interlocking precast parts that are fitted together in the field using a premixed mortar called Mason mortar, supplied with the units. The fireplace is custom designed and assembled on-site. Due to the temperature limitations of the B vent material and exhaust fan installed, the fireplaces are only suitable for use with natural gas, and are not intended for burning solids fuels.

The fireplace is equipped with a B venting system. Venting can be vertical or horizontal with specified length and height specifications as indicated in the instructions manual. An exhaust fan is required for the horizontal vent to be installed on the outside sidewall of the building.

SECTION 5: INSTALLATION

The RADCO listed Masonry Fireplace Models and Artisan Series Models are to be installed in accordance with the manufacturer's installation instructions that are provided with each system.

SECTION 6: EVIDENCE SUBMITTED

Tests - RADCO's third party product evaluation and performance testing program was conducted in their laboratory located in Long

Beach, California. RADCO's results are recorded in test report No. RAD-6053.

SECTION 7: QUALITY CONTROL

Quality System - The manufacturer maintains a closely supervised quality control system with adequate means of traceability and field follow-up. Evidence of this system is on file with RADCO.

Marking - Masonry Fireplace Models and Artisan Series Models shall display rating plates that include the model number, gas type, BTU input rating, unit serial number, and registered RADCO listing mark together with the assigned listing number as shown in Figure 1.

SECTION 8: RECOMMENDATIONS

RADCO recommends that the models, listed in Table 1, manufactured by Masonry Fireplace Industries, LLC, be acceptable for installation in fully vented noncombustible fireplaces designed to burn wood or other solid fuel, subject to the following:

- A. Listed Gas Burner Systems are assembled only at the manufacturing location indicated above.
- B. Rating plates attached to the gas burners include the specified information, a unique number that identifies the individual gas burner model and includes RADCO's listing mark and assigned Listing Number 1365 as shown in figure 1.
- C. The manufacturer maintains the quality control procedures as submitted.
- D. The audit system of RADCO is maintained.

SECTION 9: APPROVAL

This listing is subject to an annual re-examination and renewal. Updating of this data and further information will be included as necessary.



LISTING NO. 1365

Figure 1

Table 1

LISTED GAS BURNER SYSTEMS				
Series	Model No.	Burner Type	Burner Size	Input (BTU/H)
Masonry Fireplace	LMFP48	Stainless Steel	6" x 30"	85,000
Masonry Fireplace	LMFP48	Gas Log	6" x 24"	85,000
Masonry Fireplace	LMFP60	Stainless Steel	6" x 36"	100,000
Masonry Fireplace	LMFP60	Gas Log	6" x 36"	90,000
Masonry Fireplace	LMFP72	Stainless Steel	6" x 48"	120,000
Masonry Fireplace	LMFP72	Gas Log	6" x 48"	100,000
Masonry Fireplace	LMFP84	Stainless Steel	6" x 60"	140,000
Masonry Fireplace	LMFP84	Gas Log	6" x 60"	120,000
Masonry Fireplace	LMFP96	Stainless Steel	6" x 72"	160,000
Masonry Fireplace	LMFP96	Gas Log	6" x 72"	140,000
Masonry Fireplace	LMFP108	Stainless Steel	6" x 84"	180,000
Masonry Fireplace	LMFP108	Gas Log	6" x 84"	160,000
Masonry Fireplace	LMFP120	Stainless Steel	6" x 96"	200,000
Masonry Fireplace	LMFP120	Gas Log	6" x 96"	180,000
Artisan	ASL48	Stainless Steel	6" x 30"	85,000
Artisan	ASL48	Gas Log	6" x 24"	85,000
Artisan	ASL60	Stainless Steel	6" x 36"	100,000
Artisan	ASL60	Gas Log	6" x 36"	90,000
Artisan	ASL72	Stainless Steel	6" x 48"	120,000
Artisan	ASL72	Gas Log	6" x 48"	100,000
Artisan	ASL84	Stainless Steel	6" x 60"	140,000
Artisan	ASL84	Gas Log	6" x 60"	120,000
Artisan	ASL96	Stainless Steel	6" x 72"	160,000
Artisan	ASL96	Gas Log	6" x 72"	140,000
Artisan	ASL108	Stainless Steel	6" x 84"	180,000
Artisan	ASL108	Gas Log	6" x 84"	160,000
Artisan	ASL120	Stainless Steel	6" x 96"	200,000
Artisan	ASL120	Gas Log	6" x 96"	180,000