

# KEYWARM®

We Ignite Success

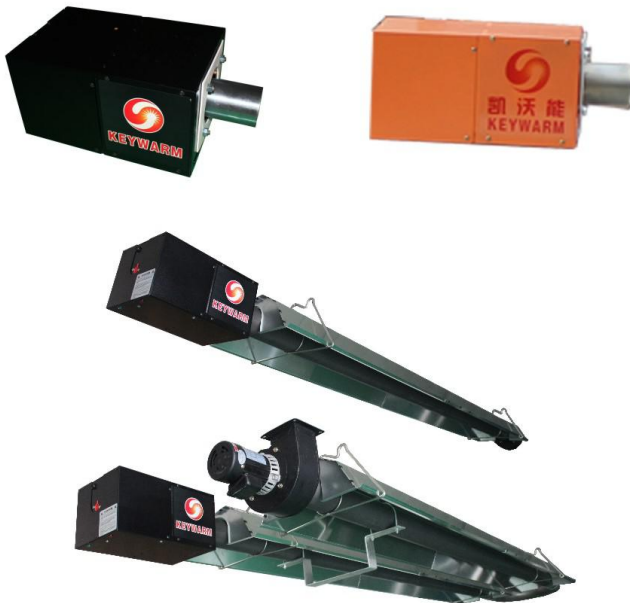
Originated from Canada



## PRODUCT INTRODUCTION

### PRODUCTS LTV/LTVU

Unitary Vacuum Systems—Better for whole space heating



#### LTV series unitary vacuum systems

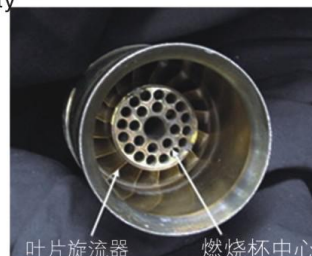
Various radiant tube layouts such as straight, L and Z configurations  
Radiant tubes up to 24 meters,  
better for whole space heating



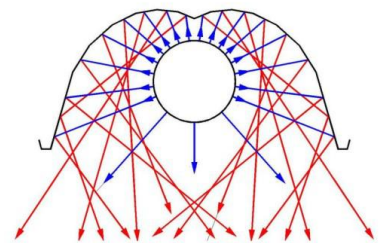
#### LTVU series U type vacuum systems

More even heat distribution  
Better for huge heat loss space and spot heating

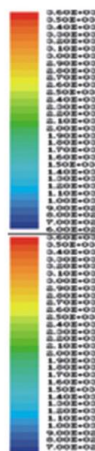
- Products of combustion are pulled through the combustion chamber for increased radiant efficiency and greater safety
  - High efficiency and energy saving
  - Reflector design is 100% reflectivity
  - Single and two-stage model available
  - Rates 10–60KW
  - Natural Gas or LPG
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- Two-side separate reflectors mean more reflective areas thus high reflectivity.
  - Totally enclosed combustion chamber
  - Separated control compartment
  - No maintenance required for permanently sealed and lubricated ball bearings of motor and blower
  - Direct spark igniting system with 100% safety shut off
  - High-tech step-opening redundant combination gas valve for quiet and stable combustion
  - Diaphragm air switch for proof of venting before gas flow and ignition
  - Self-diagnostic ignition module
  - 24V low voltage controls
  - Heat treated aluminized tubes for combustion and radiant tubes
  - Stainless steel turbulators available
  - Heavy duty couplings without leak



Low Swirl Burner



Fully Parabolic Deep Reflector  
–100% Reflectivity



Flue Gas Temperature Distribution of Competitor's Burner



Flue Gas Temperature Distribution of Our Swirl Burner

## Technical Specification

MODEL	RATE (kW)	GAS CONSUMPTION		MOUNTING HEIGHT (m)	SHIPPING WT. (kg)	STD. LENGTH (m)	RADIANT TUBE (mm)	ELEC RATING	GAS CONN
		N.G. (Nm³/h)	LPG (kg/h)						
LTV10	10	1.06	0.8	2.4-3.0	37-55	3-6	101.6	220V 50Hz 1A	1/2" NPT
LTV (U) 20	20	2.22	1.6	3.0-4.5	55-73	6-9			
LTV (U) 30	30	3.33	2.3	4.2-5.4	73-91	9-12			
LTV (U) 35	35	3.37	2.4	4.2-5.4	73-91	9-12			
LTV (U) 40	40	3.86	3.2	4.8-6.9	91-109	12-15			
LTV (U) 45	45	4.34	3.5	4.8-6.9	109-127	15-18			
LTV (U) 50	50	4.83	4.0	5.1-7.5	109-127	15-18	108	220V 50Hz 1A	3/4" NPT
LTV (U) 55	55	5.31	4.3	5.1-7.5	145-170	18-22			
LTV (U) 60	60	5.79	4.6	5.5-8.0	170-202	22-24			

Integrated System	Burner Type	Rate (kW)	GAS CONSUMPTION		Radiant Tube Length(m) Diameter(mm)	Power Supply and Vacuum Pump Rate	Burner Connection
			N.G. (Nm³/h)	LPG (kg/h)			
LTV100-2	LTV50 (2)	100	9.66	7.8	30-36, 101.6	220V	1/2" NPT
LTV110-2	LTV55 (2)	110	10.63	8.6	36-42, 108	50Hz	3/4" NPT
LTV120-2	LTV60 (2)	120	11.60	9.3	42-48, 108	370W	3/4" NPT
LTV200-4	LTV50 (4)	200	19.32	15.6	60-72, 101.6	220V	1/2" NPT
LTV220-4	LTV55 (4)	220	21.26	17.2	72-84, 108	50Hz	3/4" NPT
LTV240-4	LTV60 (4)	240	23.20	18.6	84-96, 108	750W	3/4" NPT

▲ Natural Gas: 8900kcal/Nm³, LPG: 11000kcal/kg, Gas Supply Pressure: 2-3kPa.

U Type is about 4Kg heavier than straight type.

\*110V/60Hz available

## Cases

