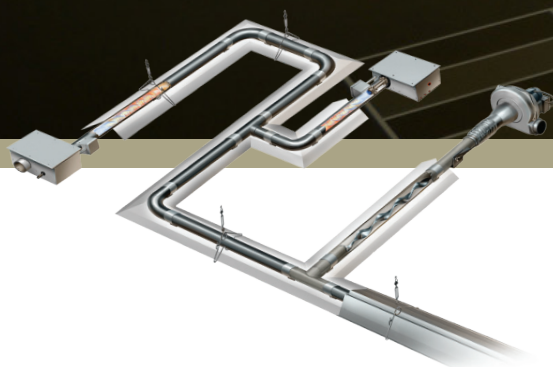


HLV SERIES

MULTIPLE-BURNER LOW INTENSITY ENGINEERED VACUUM SYSTEM

Designed for applications where reduced penetrations are desired while covering a greater area with heat.

The HLV Series infrared vacuum heating system is engineered specifically for the design parameters of the building it is required to heat. More commonly found in larger commercial and industrial applications, these systems offer potential operating benefits that are not easily obtainable with traditional infrared tube heaters. An engineered vacuum system emits low intensity infrared heat just like any other type of tubular heater. What makes these systems unique is the method in which they operate as well as their expanded operational boundaries.



PRODUCT FEATURES

- 1 to 6 burner design options
- Two-stage operation
- 40,000 to 750,000 total system BTU/h
- Tandem burner design for independent combustion air
- Self-diagnostic indicator light operation

RE-VERBER-RAY®

by Detroit Radiant Products Company

INFRARED RADIANT HEATERS

BENEFITS OF HEATING WITH INFRARED

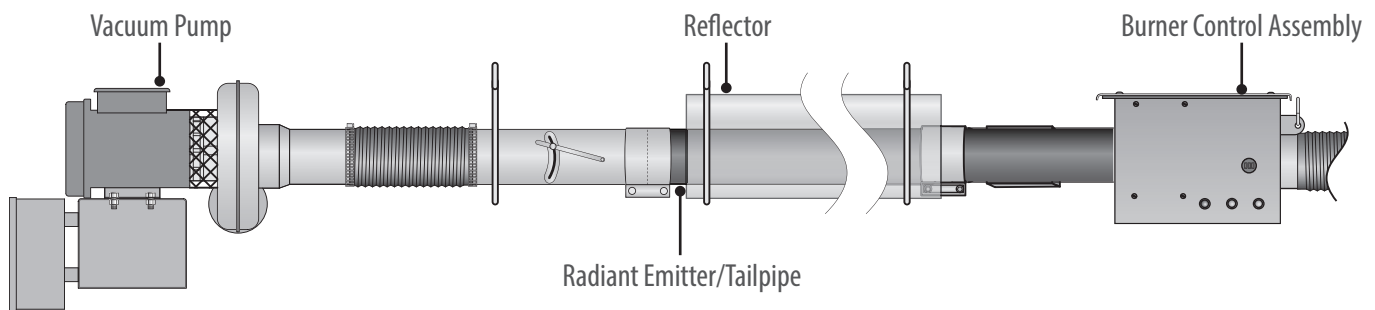
- | | |
|------------------------------|----------------------|
| • Superior Comfort | • Flexibility |
| • Indoor Air Quality | • Durability |
| • Reduced Energy Consumption | • Radiant Efficiency |
- Slip-fit tube exchangers with bolted tube clamps
 - Mini hot surface ignition
 - Pre-wired vacuum pump with thermal overload
 - Heavy-duty balancing damper

HLV SERIES

MULTIPLE-BURNER ENGINEERED VACUUM INFRARED HEATING SYSTEM

KEY SYSTEM COMPONENTS

The HLV Series engineered vacuum system emits low intensity infrared heat like other types of tubular heaters. What makes a vacuum system unique is the method in which it operates as well as its expanded performance capabilities.



Burner Control Assembly:

Tandem designed HLV Series burners range from 40,000 to 200,000 BTU/h and do not require the use of combustion air filters, since each burner draws its own fresh air for combustion.

Emitter Pipe:

4-inch O.D. 16 gauge titanium-stabilized and aluminized steel tubes treated with a highly emissive black coating offer superior longevity and protection.

A swaged, interlocking tube design provides a tube-on-tube overlap that helps to ensure structural integrity, ensures a tight seal, and is easier to install.

Condensing systems are fitted with corrosion resistant 304 stainless steel tailpipe insuring years of reliability.

Vacuum Pump:

Pre-wired, spark resistant, heavy-duty cast aluminum 1/2-hp, 3/4-hp or 1-hp pumps allow for multiple high BTU burners per system.

Reflectors:

Multi-faceted highly polished reflectors maximize the amount of infrared energy that is directed to the floor level - where heat is needed most.

Controls:

State-of-the-art pre-programmed building management control panels are available for use as a stand-alone or overall building management system.

HLV SERIES

MULTIPLE-BURNER ENGINEERED VACUUM INFRARED HEATING SYSTEM

COMMON APPLICATIONS OF VACUUM SYSTEMS



Aircraft Hangars



Distribution Facilities/Warehouses

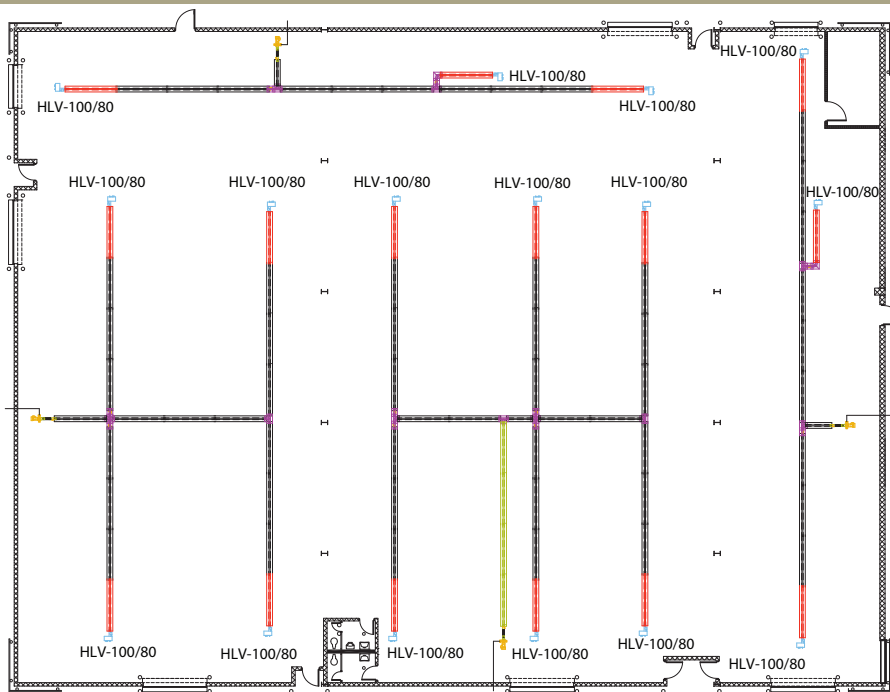


Vehicle Storage



Fire Station Apparatus Bays

SAMPLE VACUUM SYSTEM APPLICATION



Color Legend:

- Blue: Burner Box
- Red: Combustion Tube
- Black: Radiant Exchangers
- Green: Stainless Steel Tailpipe
- Orange: Vacuum Pump
- Purple: Heater Accessories

Graphic Legend:

Tee Fitting:



90° Elbow:



Damper:



Cross Fitting:



Burner Assembly:



Vacuum Pump:



BENEFITS OF HEATING WITH INFRARED

Reduce Energy Consumption:
Fuel savings from 20 to 50% when compared to a warm air system.

Low Harmful Emissions:
Infrared heaters burn clean thus putting off low harmful emissions.

Indoor Air Quality:
Infrared heaters do not rely on air currents to transfer heat-minimizing circulation of airborne pollutants.

Flexibility:
Infrared heaters can be directed where heat is needed.









Modular Design:
Individual zone controls increase personal comfort for all building occupants.

Thermal Comfort:
Heat the floor zone; not the ceiling. Heat energy stored within ambient objects improves comfort levels in the space.

HLV SERIES

MULTIPLE-BURNER ENGINEERED VACUUM INFRARED HEATING SYSTEM

PRODUCT SPECIFICATIONS

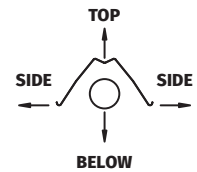
	Input Range: 40,000 to 200,00 BTU/h (1-6 burners)		Radiant Tubes: .95 Emissive Black Coated Aluminized Steel
	Lengths: Engineered to fit the needs of the space		Certification: CSA, Commercial/Industrial, Indoor
	Gas Type: Natural (3.5" W.C.) or Propane (10.0" W.C.)		Limited Warranty: 3 (Components) - 5 (Tubes) - 10 (Burner) - 1 (Pump)
	Combustion Chamber: 4" Titanium Stabilized Aluminized Steel		Electrical: 120V, 60 Hz. 24V Control Amps per burner 0.7 starting, 0.2 running

AVAILABLE HLV MODELS & CLEARANCES

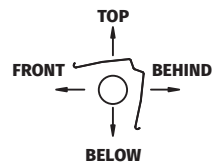
MODEL #	GAS ²	BTU/h HIGH FIRE	BTU/h LOW FIRE	MOUNTING HEIGHTS ³	MOUNTING ANGLE	SIDE	TOP	BELOW
HLV-40 ¹	Nat or Prop	40,000	N/A	9' to 14'	0°	9	4	47
HLV-50 ¹	Nat or Prop	50,000	N/A	9' to 14'	0°	9	4	47
HLV-60	Nat or Prop	60,000	50,000	10' to 15'	0°	9	4	48
HLV-75	Nat or Prop	75,000	60,000	11' to 18'	0°	9	4	48
HLV-80	Nat or Prop	80,000	64,000	11' to 18'	0°	11	4	48
HLV-90	Nat or Prop	90,000	72,000	12' to 20'	0°	12	4	54
HLV-100	Nat or Prop	100,000	80,000	12' to 20'	0°	14	4	66
HLV-110	Nat or Prop	110,000	88,000	13' to 23'	0°	18	4	72
HLV-120	Nat or Prop	120,000	96,000	13' to 23'	0°	18	4	72
HLV-125	Nat or Prop	125,000	100,000	14' to 27'	0°	18	4	72
HLV-140	Nat or Prop	140,000	112,000	15' to 30'	0°	24	6	81
HLV-150	Nat or Prop	150,000	120,000	15' to 30'	0°	24	6	81
HLV-170	Nat or Prop	170,000	136,000	16' to 40'	0°	34	6	92
HLV-175	Nat or Prop	175,000	140,000	17' to 42'	0°	34	6	92
HLV-180	Nat or Prop	180,000	144,000	18' to 47'	0°	41	6	94
HLV-200	Nat or Prop	200,000	160,000	19' to 50'	0°	41	6	94

CLEARANCES TO COMBUSTIBLES⁴ (INCHES)

0° Mounting Angle



45° Mounting Angle⁴



⁴ Refer to HLV Manual for additional information about clearances for 45° Mounting Angle, 0° w/ 1 Side Shield, 0° w/ 2 Side Shields, and 20ft. from burner.

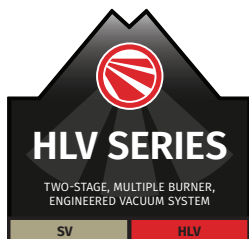
* Clearances posted above reflect those of a system with reflectors installed without add-on options at a 0° angle from horizontal. System lengths and clearances to combustibles vary based on the system design and configuration. Reference the HLV Series Manual and Design Guide for additional data. Clearances published in HLV Series manual and on warning label supersede data shown on this brochure.

¹ The HLV-40 and HLV-50 do not have a reduction for low fire.

² Specify natural (Nat) or propane (Prop) gas.

³ Recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from the above data.

Always maintain the published clearances to combustibles. **Not for residential use.** Clearances published in HLV Series manual and on warning label supersede data shown on this brochure.



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PRODUCTS COMPANY**

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Form No. LBHLV_XM_0219 (DRPC)

