

DETROIT RADIANT

RE-VERBER-RAY

RADIANT GAS HEATERS®

PRODUCTS COMPANY

SPECIALTY HEATER OFFERING

SERIES ○ HLV ● SV ○ CL ○ CX ○ -SS

SV SERIES

GAS-FIRED SINGLE STAGE UNITARY INFRARED VACUUM SYSTEM

The SV Series is the latest advancement in vacuum system technology. This unitary vacuum system incorporates our acclaimed stainless steel “vortex” burner for optimal heat distribution. Other features include a full BTU offering, extended venting runs, self-diagnostic circuit controls, reliable performance in high wind conditions and the quietest vacuum operation in the industry.

PRODUCT FEATURES



- BTU/h Inputs of 50,000 to 200,000
- Available in Tube Lengths of 20 to 80 Ft.
- Black Coated Titanium Stabilized Combustion Chamber.
- Black Coated Aluminized Steel Radiant Tubes.
- Highly Polished Aluminum Reflectors.
- Capable of Long Vent Lengths.
- Quiet Vacuum (negative pressure) Operation
- 24V Control Wiring with Micro-processor Circuitry.
- Hot Surface Ignition with Flame Rod Sensing.

TYPICAL APPLICATIONS



PRODUCT FEATURES COMPARISON CHART

	HLV	SV	CL	CX	-SS
Highly Polished Aluminum Reflectors	•	●	•	•	
Coated Titanium or Aluminized Combustion Chamber	•	●			
Coated Aluminized Radiant Tubes	•	●	•	•	
Hot Surface Ignition	•	●	•	•	•
Stainless Steel Flexible Gas Connector	•	●	•	•	•
Ball Valve (1/2" Brass) with Pressure Tap Included	•	●	•	•	•
Two-stage Technology	•		•		•
Interlocking Swaged Tubes	•	●	•	•	•
Stainless Steel Models Available*	•	●	•	•	•
Reflector End Caps	•	●	•	•	•
Optional 'U' or 'L' Configurations Available	•	●	•	•	•

* Select upgrades available; full stainless models are available in the HL2-SS and DX2-SS Series offering.

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VISIT OUR WEBSITE FOR:

- Product Specs
- Parts Support
- Dealer Locator
- Applications
- C.A.D. Library
- Design Guidelines
- Theory of Infrared
- and More!



PRODUCT SPECIFICATIONS

Input Range:	50,000 to 200,000 BTU/h
Lengths:	20-80 Ft.
Gas Type:	Natural or Propane
Combustion Chamber:	Titanium Stabilized or Aluminized Steel
Radiant Tubes:	Coated Aluminized Steel
Certification:	CSA
Limited Warranty:	3-5-10 (Components-Tubes-Burner)

OPTIONAL EQUIPMENT

U or L Configurations:	Available (RUP, REP)
Stainless Steel Upgrades:	Available (SSRAO, SSTAO)
24V Controls:	Available (use with R8285B)
Indicator Lights:	Standard
Protective Guards:	Available (PG)
Side Shield Extensions:	Available (SSE)
Outdoor Approval:	Not Available

ELECTRICAL

- 120V, 60Hz, 3-wire.
- 3.0A starting, 2.0A running.
- Exhauster 24VAC to burner.

CONTROLS

- Pre-purge.
- Self-diagnostic circuitry.
- 120V thermostat control.
- Pre-wired control panel.

TUBE CONSTRUCTION

- As shown to left.
- 4" x 10' 16 ga. construction.
- Highly emissive black coating.
- Labor saving, interlocking, swaged tube design.

REFLECTORS

- Highly polished aluminum.
- End caps included.
- Tension springs.
- 0° – 45° rotatable angle.

IGNITION/SENSE

- Hot surface ignition.
- Flame rod sense.

VENTING

- Venting options for roof or sidewall.

GAS CONNECTION

- 7/8" flare male NPT.
- 1/2" NPT ball valve/inlet tap included.
- 24" stainless steel flexible connector included.

GAS PRESSURES

- MAN: 3.5" NAT or 10.0" LP
- MIN: 5.0" NAT or 11.0" LP
- MAX: 14.0" NAT or 14.0" LP

COMBUSTION AIR

- Equipped for ducted air intake from roof or sidewall.
- 4" PVC duct intake.
- Required in harsh environments.

KIT CONTENTS

- All hangers & couplers.
- Reflector end caps.
- Turbulator baffles.

AVAILABLE SV MODELS & CLEARANCES

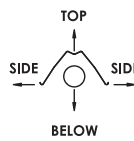
MODEL #	GAS*	INPUT BTU/h	LENGTH	WEIGHT	MOUNTING HEIGHTS**
SV-20-50	N or LP	50,000	22'-7"	140 lbs.	9' to 14'
SV-20-60	N or LP	60,000	22'-7"	140 lbs.	10' to 15'
SV-20-75	N or LP	75,000	22'-7"	140 lbs.	10' to 15'
SV-30-50	N or LP	50,000	32'-3"	180 lbs.	10' to 15'
SV-30-60	N or LP	60,000	32'-3"	180 lbs.	11' to 18'
SV-30-75	N or LP	75,000	32'-3"	180 lbs.	12' to 20'
SV-30-100	N or LP	100,000	32'-3"	180 lbs.	13' to 23'
SV-30-125	N or LP	125,000	32'-3"	180 lbs.	14' to 25'
SV-40-50	N or LP	50,000	41'-11"	210 lbs.	11' to 18'
SV-40-60	N or LP	60,000	41'-11"	210 lbs.	11' to 18'
SV-40-75	N or LP	75,000	41'-11"	210 lbs.	12' to 20'
SV-40-100	N or LP	100,000	41'-11"	210 lbs.	13' to 23'
SV-40-125	N or LP	125,000	41'-11"	210 lbs.	14' to 25'
SV-40-150	N or LP	150,000	41'-11"	210 lbs.	15' to 27'
SV-40-175	N or LP	175,000	41'-11"	210 lbs.	16' to 30'
SV-50-100	N or LP	100,000	51'-7"	255 lbs.	15' to 27'
SV-50-125	N or LP	125,000	51'-7"	255 lbs.	15' to 27'
SV-50-150	N or LP	150,000	51'-7"	255 lbs.	16' to 30'
SV-50-175	N or LP	175,000	51'-7"	255 lbs.	17' to 35'
SV-50-200	N or LP	200,000	51'-7"	255 lbs.	18' to 40'
SV-60-150	N or LP	150,000	61'-3"	285 lbs.	17' to 35'
SV-60-175	N or LP	175,000	61'-3"	285 lbs.	17' to 35'
SV-60-200	N or LP	200,000	61'-3"	285 lbs.	18' to 40'
SV-70-175	N or LP	175,000	70'-11"	320 lbs.	19' to 42'
SV-70-200	N or LP	200,000	70'-11"	320 lbs.	19' to 42'
SV-80-200	N or LP	200,000	80'-7"	350 lbs.	20' to 45'

* Specify natural (N) or propane (LP) gas.

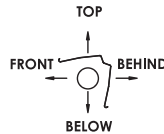
** Factory recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from the above data.

SV CLEARANCES TO COMBUSTIBLES (IN.)

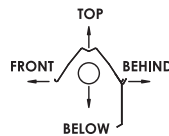
0° Mounting Angle



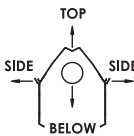
45° Mounting Angle



0° W/ 1 Side Shield



0° W/ 2 Side Shields



MODEL NO.	MOUNTING ANGLE	SIDE			
		FRONT	BEHIND	TOP	BELOW
SV (20,30,40)-(50,60)	0°	9	9	6	47
	45°	39	8	10	47
W/1 side shield	0°	29	8	6	47
W/2 side shields	0°	9	9	6	47
20 ft. from burner	0°	7	7	6	30
SV (20,30,40)-75	0°	7	9	6	60
	45°	39	8	10	60
W/1 side shield	0°	29	8	6	60
W/2 side shields	0°	9	9	6	60
20 ft. from burner	0°	7	7	6	30
SV (30,40,50)-100	0°	14	14	6	66
	45°	39	8	10	66
W/1 side shield	0°	29	8	6	66
W/2 side shields	0°	16	16	6	66
20 ft. from burner	0°	7	7	6	30
SV (30,40,50)-125	0°	20	20	6	76
	45°	58	8	10	76
W/1 side shield	0°	42	8	6	76
W/2 side shields	0°	20	20	6	76
20 ft. from burner	0°	7	7	6	30
SV (40,50,60)-150	0°	24	24	6	81
	45°	58	8	10	81
W/1 side shield	0°	42	8	6	81
W/2 side shields	0°	23	23	6	81
20 ft. from burner	0°	11	11	6	44
SV (40,50,60,70)-175	0°	34	34	6	92
	45°	63	8	10	92
W/1 side shield	0°	50	8	6	92
W/2 side shields	0°	30	30	6	92
20 ft. from burner	0°	11	11	6	44
SV (50,60,70,80)-200	0°	41	41	6	94
	45°	63	8	10	94
W/1 side shield	0°	54	8	6	94
W/2 side shields	0°	30	30	6	94
20 ft. from burner	0°	11	11	6	44

Always maintain the published clearances to combustibles.

Clearances published in SV Series manual and on warning label supersede data shown on this brochure.

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