

SECTION 40



RADIANT TUBE HEATERS



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REPAIRS

SEE REPAIR LISTING & REFERENCE MATERIAL IN SEPARATE CATALOG

HEATRITE™
"VES" SINGLE FIRE RADIANT TUBE HEATERS



**FOR USE IN
 NORTH AMERICA ONLY**

HEATRITE™ "VES" Single Fire Tube Heaters

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474800	Tube Heater, VES, 80K BTU, LP, 20', DSI	111	50.3	
474801	Tube Heater, VES, 80K BTU, NAT, 20', DSI	111	50.3	
474802	Tube Heater, VES, 100K BTU, LP, 30', DSI	145	65.8	
474803	Tube Heater, VES, 100K BTU, NAT, 30', DSI	145	65.8	
474804	Tube Heater, VES, 125K BTU, LP, 40', DSI	186	84.4	
474805	Tube Heater, VES, 125K BTU, NAT, 40', DSI	186	84.4	
474806	Tube Heater, VES, 150K BTU, LP, 50', DSI	231	104.8	
474807	Tube Heater, VES, 150K BTU, NAT, 50', DSI	231	104.8	
EXPW10ALUM	10' Extension Kit, includes tube, reflector and hangers	52	23.6	



HEATRITE™ "VES" Single Fire U-Tube Heaters

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474808	Tube Heater, VES, U-Tube, 80K BTU, LP, 20', DSI	130	59.0	
474809	Tube Heater, VES, U-Tube, 80K BTU, NAT, 20', DSI	654	296.6	

HEATRITE™ "VST" Radiant Heaters

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474606	Tube Heater, VST, 150K BTU, LP, 40', DSI	201	91.2	
474607	Tube Heater, VST, 150K BTU, NAT, 40', DSI	201	91.2	



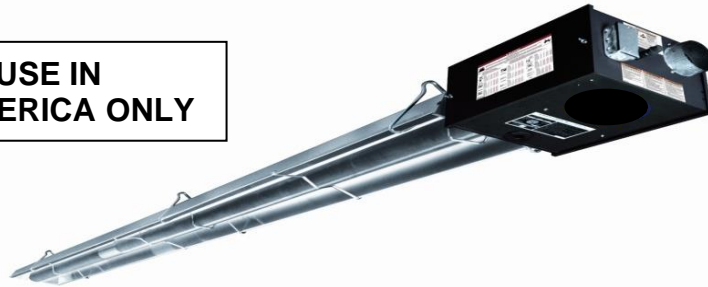
VHED RADIANT TUBE HEATERS

HEATRITE INTERNATIONAL VBH RADIANT TUBE HEATERS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474542	Tube Heater, Negative Pressure , 35KW, 220/50hz, LP Gas, 12.2m long, DSI	187.5	85.1	

HEATRITE
MODULATING TUBE HEATER

**FOR USE IN
 NORTH AMERICA ONLY**



HEATRITE **MODULATING TUBE HEATER**

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
VM80P-20A	Modulating Tube Heater - LP Gas 20' (6.1m) Length - Max/Min Input Rate: 80,000/55,000 BTUH	125.0	56.7	
VM80N-20A	Modulating Tube Heater - Natural Gas 20' (6.1m) Length - Max/Min Input Rate: 80,000/55,000 BTUH	125.0	56.7	
VM80P-30A	Modulating Tube Heater - LP Gas 30' (9.1m) Length - Max/Min Input Rate: 80,000/55,000 BTUH	159.0	72.1	
VM80N-30A	Modulating Tube Heater - Natural Gas 30' (9.1m) Length - Max/Min Input Rate: 80,000/55,000 BTUH	159.0	72.1	
VM115P-30A	Modulating Tube Heater - LP Gas 30' (9.1m) Length - Max/Min Input Rate: 115,000/78,000 BTUH	159.0	72.1	
VM115N-30A	Modulating Tube Heater - Natural Gas 30' (9.1m) Length - Max/Min Input Rate: 115,000/78,000 BTUH	159.0	72.1	
VM115P-40A	Modulating Tube Heater - LP Gas 40' (12.2m) Length - Max/Min Input Rate: 115,000/78,000 BTUH	200.0	90.7	
VM115N-40A	Modulating Tube Heater - Natural Gas 40' (12.2m) Length - Max/Min Input Rate: 115,000/78,000 BTUH	162.0	73.5	
VM150P-40A	Modulating Tube Heater - LP Gas 40' (12.2m) Length - Max/Min Input Rate: 150,000/105,000 BTUH	200.0	90.7	
VM150N-40A	Modulating Tube Heater - Natural Gas 40' (12.2m) Length - Max/Min Input Rate: 150,000/105,000 BTUH	200.0	90.7	
VM150P-50A	Modulating Tube Heater - LP Gas 50' (15.2m) Length - Max/Min Input Rate: 150,000/105,000 BTUH	252.0	114.3	
VM150N-50A	Modulating Tube Heater - Natural Gas 50' (15.2m) Length - Max/Min Input Rate: 150,000/105,000 BTUH	246.0	111.6	

KIT COMPONENTS MODULATING RADIANT TUBE HEATERS

COMPONENT REQUIREMENTS FOR MODULATING TUBE HEATER KITS		REQUIRED QUANTITY					
		VM80P/N-20A	VM80P/N-30A	VM115P/N-30A	VM115P/N-40A	VM150P/N-40A	VM150P/N-50A
COMPONENT CATALOG NUMBER	COMPONENT DESCRIPTION	TUBE HEATER KIT NUMBER →					
See Below	Modulating Burner Unit	1	1	1	1	1	1
03051101	Burner Tube 60,000 BTU & Higher	1	1	1	1	1	1
91409408	Tube, Aluminized, Heat Treated, 16 Gauge., 10' (3m) - 4" (100mm) Diameter	1	2	2	3	3	4
01312700	Coupling, Plain - 4" (100mm) Diameter Stainless Steel	1	2	2	3	3	4
01318901	Tube Clamp Package (Includes Clamps, Nut, Washer, Bolt)	1	1	1	1	1	1
02750303	8' Standard Reflector	3	4	4	6	6	7
02750800	Reflector End Cap	2	2	2	2	2	2
03090100 - OR - 03090101	Tube & Reflector Hanger - OR - Tube & Reflector Hanger - Wide Pattern	3	4	4	5	5	6
03050000 - OR - 03050001	* Reflector Support Strap - OR - ** Reflector Support Strap - Wide Pattern	2	3	3	5	5	6
91908004	*** Wire Form Hanger	2	3	3	5	5	6
94320812	*** Screw for Reflector Support	4	6	6	10	10	12
91907302	S-Hook	3	4	4	5	5	6
91107720	U-Clip Package (20 Clips Per Package)	1	1	1	1	1	2
90502700	Vent Adapter - 4" (100mm) Diameter	1	1	1	1	1	1

* These items may be ordered as 03050010 Reflector Support Package.

** These items may be ordered as 03050011 Reflector Support Package - Wide Pattern.

VM BURNER UNITS - LP GAS

CATALOG NO.	FOR TUBE HEATER KIT
VM34080LP	VM80P-20A & 30A
VM34115LP	VM115P-30A & 40A
VM34150LP	VM150P-40A & 50A

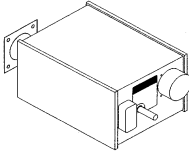
VM BURNER UNITS - NATURAL GAS

CATALOG NO.	FOR TUBE HEATER KIT
VM34080NG	VM80N-20A & 30A
VM34115NG	VM115N-30A & 40A
VM34150NG	VM150N-40A & 50A

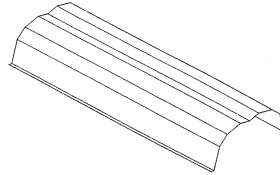
SEE COMPONENT PRICING ON PAGES 40-07 THRU 40-08

HEATRITE™ TUBE HEATER COMPONENT PRICING

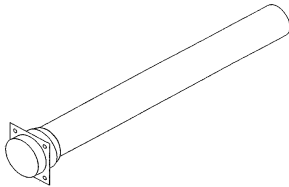
SEE COMPONENT PRICING ON PAGE 40-07 & 40-08



BURNER UNIT
Shown with tube gasket.
Must be installed with the flame
observation window facing down.



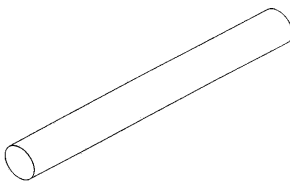
REFLECTOR
Alternate overlap of reflectors.
See instructions for proper overlap
measurement - minimum overlap
is 9" (23cm).



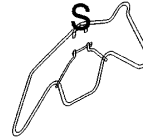
BURNER TUBE
Supplied in 10' length. Burner
tube is always the first tube after
the burner.



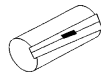
REFLECTOR END CAP
Punch out center section to
accommodate tube. Attach
with provided U-Clips.



TUBE
Supplied in 10' length. Does not
attached to burner.



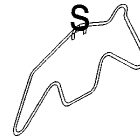
**TUBE & REFLECTOR
HANGER WITH CLAMP**
Position this hanger no more
than 4" (10cm) away from the
burner unit. Suspend from "S"
hook.



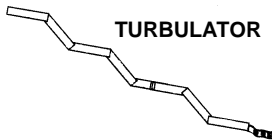
COUPLER
Used for tube to tube
connections



VENT ADAPTER
Adapter is used to connect the
last heat exchange tube to the
vent system. Install adapter with
seam on top.



TUBE & REFLECTOR HANGER
Suspend the system from these
hangers. Minimum of one required
per 10' tube. Suspend from "S"
hook.



TURBULATOR

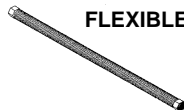
VENT SLEEVE



FLEXIBLE BOOT



FLEXIBLE GAS LINE



REFLECTOR SUPPORT PACKAGE
One required at every reflector
overlap. The support closest to the
burner and every other support after
should have the screws loosened
approximately 1/16" (2mm) to allow for
reflector slippage.

HEATRITE™

TUBE HEATER ACCESSORY & COMPONENT PRICING

TUBE HEATER KIT COMPONENTS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474932	Outside Air Inlet Kit; 4"	3.3	1.5	
90502403	Outside Air Inlet Kit; 5" (VTF Tube Heater Only)	0	0	
03051601	Burner Tube - 40,000 BTU Only - Heat Treated (VST & VM Only)	30.0	13.6	
03051101	Burner Tube - 60,000 BTU & Higher - Heat Treated (VST & VM Only)	30.0	13.6	
91409408	10' (3m) Tube, Aluminized, Heat Treated, 16 Gauge., 4" (100mm) Diameter	27.0	12.2	
91409408-19B	Bundle of 19 - 91409408 Tubes	513.0	232.7	
01312700	Tube Coupling - 4" (100mm) Diameter - Stainless Steel	1.0	0.5	
01312700-30P	Package of 30 - 01312700 Couplings	33.0	15.0	
01318901	Tube Clamp Package (Includes Clamps, Nut, Washer, Bolt)	0.9	0.4	
02750303	8' Standard Reflector	5.0	2.3	
02750303-20P	Package of 20 - 02750303 8' Standard Reflectors	106.0	48.1	
02750800	Reflector End Cap	1.0	0.5	
02750800-50P	Package of 50 - 02750800 Reflector End Caps	50.0	22.7	
03090100	Tube & Reflector Hanger	1.0	0.5	
03090100-30P	Package of 30 - 03090100 Tube & Reflector Hangers	34.0	15.4	
03090101	Tube & Reflector Hanger - Wide Pattern	27.0	12.2	
03050010	Reflector Support Package (Includes Strap, Wire Form & 2 Screws)	1.0	0.5	
03050010-100P	Package of 100 - 03050010 Reflector Support Packages	30.0	13.6	
03050011	Reflector Support Package - Wide Pattern (Includes Strap, Wire Form & 2 Screws)	1.0	0.5	
03050000	Strap Only for Reflector Support	5.0	2.3	
91908004	Wire Form Hanger Only for Reflector Support	0.0	0.0	
94320812	Screw Only for Reflector Support	0.0	0.0	
91907302	S-Hook	0.0	0.0	
91107720	U-Clip Package	1.0	0.5	
90502300	Outdoor vent cap, 4"	2.0	0.9	
474095	4" Terminal elbow vent with screen	3.0	1.4	
0302080A	Burner Side Door VST Tube Heater Blower Side	2.0	0.9	
90502700	Vent Adapter - 4" (100mm) Diameter	1.0	0.5	

HEATRITE™

TUBE HEATER ACCESSORY & COMPONENT PRICING

TUBE HEATER VES - COMPONENTS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
91201708	PIPE NIPPLE BLACK 1/2" NPT X 4"	0.0	0.0	
91317300	THERMOSTAT JUMPER	0.0	0.0	
91412200	FLX GAS LN/SHT OFF COCK, 1/2"ID	2.0	0.9	
91412204	3/4"FLEX GAS LINE & SHUTOFF	3.0	1.4	

TUBE HEATER VES - Standard Core and Extension Packages

91409408	10'/ALUMINUM HEAT TREATED/ 16GA./4" DIAMETER	27.0	12.2	
474833	BURNER TUBE, 10', VES	30.0	13.6	
02750303	REFLECTOR, ALUMINUM	5.0	2.3	
02750800	REFLECTOR END CAP (ALUMINUM)	1.0	0.5	
03090101	TUBE & REFLECTOR HANGER - WIDE	27.0	12.2	
91907302	"S" HOOK	0.0	0.0	
03050011	REFLECTOR SUPPORT PACKAGE - WP	1.0	0.5	
91107720	U-CLIP PACKAGE (20 PCS)	1.0	0.5	
03090101	TUBE & REFLECTOR HANGER - WIDE	27.0	12.2	
01318901	TUBE CLAMP PACKAGE	0.9	0.4	

TUBE HEATER VES - High Efficiency Core and Extension Packages

91409408	10'/ALUMINUM HEAT TREATED/ 16GA./4" DIAMETER	27.0	12.2	
474833	BURNER TUBE, 10', VES	30.0	13.6	
01312700	COUPLING (PLAIN/SS/4"DIAMETER)	1.0	0.5	
474884	REFLECTOR, HIGH EFF, ALUM, 8'	6.1	2.8	
474885	END, CAP, REFLECTOR, HIGH EFF ALUMINUM	2.0	0.9	
474886	HANGER, TUBE & REFLECTOR HIGH EFF, 4"	1.3	0.6	
474886	HANGER, TUBE & REFLECTOR HIGH EFF, 4"	1.3	0.6	
474887	SUPPORT KIT, REFLECTOR HIGH EFF	0.4	0.2	
91107720	U-CLIP PACKAGE (20 PCS)	1.0	0.5	
474888	CLAMP PACKAGE, TUBE HIGH EFF	1.3	0.6	

TUBE HEATER VBH - Linear Standard Parts

474586	FAN KIT, VBH, BH35	11.5	5.2	
474889	LINEAR PACKAGE, TUBE HEAT VBH	0.5	0.2	
474890	BURNER TUBE, VBH, 3048MM VBH	30.0	13.6	
91409408	10'/ALUMINUM HEAT TREATED/ 16GA./4" DIAMETER	27.0	12.2	
474891	FAN TUBE, VBH, 3048MM WITH SWIRLER	30.0	13.6	
01312700	COUPLING (PLAIN/SS/4"DIAMETER)	1.0	0.5	
02750303	REFLECTOR, ALUMINUM	5.0	2.3	
02750800	REFLECTOR END CAP (ALUMINUM)	1.0	0.5	
03090100	TUBE AND REFLECTOR HANGER	1.0	0.5	
01318901	TUBE CLAMP PACKAGE	0.9	0.4	
91908004	WIRE FORM HANGER	0.0	0.0	
94320812	SCREW FOR REFLECTOR SUPPORT	0.0	0.0	
474892	SUPPORT STRAP, REFLECTOR, VBH	2.1	1.0	
91107720	U-CLIP PACKAGE (20 PCS)	1.0	0.5	



TUBE HEATER ACCESSORY & COMPONENT PRICING

TUBE HEATER VHED - Burner Parts

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474820	GASKET, TUBE, VES	0.1	0.0	
474880	VENT CAP, COMBUSTION AIR WEATHER	1.0	0.5	
91317300	THERMOSTAT JUMPER	0.0	0.0	
474831	GAS HOSE, FLEXIBLE, STAINLESS 3/4" NPT	3.0	1.4	
474847	ADAPTER, TURBULATOR, TUBE HEAT	1.0	0.5	
474832	TURBULATOR, 2.5', ALUMINIZED	3.0	1.4	

TUBE HEATER VHED - Standard Core and Extension Packages

91409408	10'/ALUMINUM HEAT TREATED/ 16GA./4" DIAMETER	27.0	12.2	
474833	BURNER TUBE, 10', VES	30.0	13.6	
01312700	COUPLING (PLAIN/SS/4"DIAMETER)	1.0	0.5	
02750303	REFLECTOR, ALUMINUM	5.0	2.3	
02750800	REFLECTOR END CAP (ALUMINUM)	1.0	0.5	
474879	HANGER, TUBE & REFLECTOR, 4" TUBE HEATER, VHED	1.3	0.6	
91907302	"S" HOOK	0.0	0.0	
91107720	U-CLIP PACKAGE (20 PCS)	1.0	0.5	
90502700	FLUE ADAPTER - 4" (100MM) DIAMETER	1.0	0.5	
01318901	TUBE CLAMP PACKAGE	0.9	0.4	

TUBE HEATER VHED - High Efficiency Core and Extension Packages

91409408	10'/ALUMINUM HEAT TREATED/ 16GA./4" DIAMETER	27.0	12.2	
474833	BURNER TUBE, 10', VES	30.0	13.6	
474884	REFLECTOR, HIGH EFF, ALUM, 8'	6.1	2.8	
474885	END, CAP, REFLECTOR, HIGH EFF ALUMINUM	2.0	0.9	
474886	HANGER, TUBE & REFLECTOR HIGH EFF, 4"	1.3	0.6	
91907302	"S" HOOK	0.0	0.0	
474887	SUPPORT KIT, REFLECTOR HIGH EFF	0.4	0.2	
91107720	U-CLIP PACKAGE (20 PCS)	1.0	0.5	
474888	CLAMP PACKAGE, TUBE HIGH EFF	1.3	0.6	

TUBE HEATER VHE - Linear Standard Parts

91409408	10'/ALUMINUM HEAT TREATED/ 16GA./4" DIAMETER	27.0	12.2	
01329700	SLIDE BAR/COUPLING BLOCK	0.0	0.0	
02750303	REFLECTOR, ALUMINUM	5.0	2.3	
02750800	REFLECTOR END CAP (ALUMINUM)	1.0	0.5	
03090100	TUBE AND REFLECTOR HANGER	1.0	0.5	
01318901	TUBE CLAMP PACKAGE	0.9	0.4	
91908004	WIRE FORM HANGER	0.0	0.0	
94320812	SCREW FOR REFLECTOR SUPPORT	0.0	0.0	



TUBE HEATER COMPONENT PRICING - BURNER UNITS

VES LP and NATURAL GAS BURNER UNITS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
474810	VES, 80K BTU, LP, DSI	25.0	11.3	
474811	VES, 80K BTU, NAT DSI	25.0	11.3	
474812	VES, 100K BTU, LP, DSI	25.0	11.3	
474813	VES, 100K BTU, NAT, DSI	25.0	11.3	
474814	VES, 125K BTU, LP, DSI	25.0	11.3	
474815	VES, 125K BTU, NAT, DSI	25.0	11.3	
474816	VES, 150K BTU, LP, DSI	25.0	11.3	
474817	VES, 150K BTU, NAT, DSI	25.0	11.3	

VTF LP BURNER UNITS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
VTF90160LP	For Tube Heaters VTF160P-40A & 60A	0.0	0.0	
VTF90200LP	For Tube Heaters VTF200P-60A & 80A	0.0	0.0	
VTF90250LP	For Tube Heaters VTF250P-80A & 100A	0.0	0.0	

VTF NATURAL GAS BURNER UNITS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
VTF90160NG	For Tube Heaters VTF160N-40A & 60A	0.0	0.0	
VTF90200NG	For Tube Heaters VTF200N-60A & 80A	0.0	0.0	
VTF90250NG	For Tube Heaters VTF250N-80A & 100A	0.0	0.0	

VM LP BURNER UNITS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
VM34080LP	For Tube Heaters VM80P-20A & 30A	39.0	17.7	
VM34115LP	For Tube Heaters VM115P-30A & 40A	39.0	17.7	
VM34150LP	For Tube Heaters VM150P-40A & 50A	39.0	17.7	

VM NATURAL GAS BURNER UNITS

CATALOG NUMBER	ITEM DESCRIPTION	SHIPPING WEIGHT		LIST PRICE
		LBS.	KG.	
VM34080NG	For Tube Heaters VM80N-20A & 30A	39.0	17.7	
VM34115NG	For Tube Heaters VM115N-30A & 40A	39.0	17.7	
VM34150NG	For Tube Heaters VM150N-40A & 50A	39.0	17.7	