



LUMINOUS HEATER PRICE LIST 2009

PRICES IN EFFECT MAY 4, 2009

RELEASE 1A



Luminous Heaters (High Intensity):	This Section, Pages L-1 to L-16
General Information: Terms; Return Policy; Contact Info; Freight Zones; SPQ Form; Design Form; Warranty Summary -	Pages G-1 to G-11
Tube Heaters:	Section 3, Pages T-1 to T-52
Construction Heaters:	Section 4, Page P-11
Outdoor & patioSchwank:	Section 4, Pages P-1 to P-33

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As of the effective date, these price sheets supercede all previous price sheets



All Schwank heaters are certified by CSA International



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These price sheets supercede all other price sheets

Schwank reserves the right to make changes in products and pricing without notice.

F.O.B. Mississauga, Ontario
All Applicable Taxes Extra
1 1/2% Monthly Interest On Overdue Accounts
Prices subject to change without notice



What's New for 2009?

NEW In this Release 1A - May 1, 2009

Please update your sales information and database

EXHAUST SYSTEMS DISCONTINUED



Schwank will no longer offer exhaust fan systems for luminous heaters.
All varieties of exhaust fans are readily available via local distribution.

Exhaust System Sizing:

- ✓ Luminous heaters are installed unvented
- ✓ Check local & national code requirements and product manuals
- ✓ National Code Exhaust Volume Requirements (in brief):

☞ **USA:** 4 cfm exhaust per 1,000 Btuh input

☞ **Canada:** 300 cfm interlocked mechanical exhaust per 100,000 Btuh input or any fraction thereof

For all installations, the exhaust or opening for removal of flue products must be located above the level of the heaters.

Please delete these item numbers from your systems:

Wall Exhausters

JL-0870-KT
JL-0871-KT
JL-0872-KT
JL-0873-KT
JL-0874-KT
JL-0875-KT
JL-0876-KT
JL-0877-KT
JL-0878-KT
JL-0879-KT

Roof Exhausters

JL-0880-KT
JL-0881-KT
JL-0882-KT
JL-0883-KT
JL-0884-KT
JL-0885-KT
JL-0886-KT
JL-0887-KT
JL-0888-KT
JL-0889-KT

www.SchwankGroup.com - Get current Published Info for all products

LUMINOUS HEATER & ACCESSORIES SELECTION GUIDE

Select Heater Series:

24V Power Supply LUMINOUS HEATER SERIES		
supraSchwank		primoSchwank
SUPRA 10 SU-0010-NG / LP		PRIMO 10 MO-0010-NG / LP
SUPRA 15 SU-0015-NG / LP		PRIMO 15 MO-0015-NG / LP
SUPRA 20 SU-0020-NG / LP		PRIMO 20 MO-0020-NG / LP
SUPRA 30 SU-0030-NG / LP		PRIMO 30 MO-0030-NG / LP
SUPRA 40 SU-0040-NG / LP		PRIMO 40 MO-0040-NG / LP
		ecoSchwank
		ECO 6 EC-0021-NG / LP
		ECO 10 EC-0037-NG / LP
		ECO 13 EC-0050-NG / LP
		ECO 18 EC-0075-NG / LP
		ECO 26 EC-0100-NG / LP
		ECO 36 EC-0150-NG / LP
		ECO 52 EC-0200-NG / LP

ITEMS PER ZONE OF HEATERS

COMMON TRANSFORMER/ZONE (120/24VAC)		
40VA FOR FIRST HEATER + 20VA / EACH ADDITIONAL		
1 HEATER	40 VA Transformer	JL-0776-XX
UP TO 4	100 VA Transformer	JL-0778-XX
UP TO 6	150 VA Transformer	JL-0779-XX
UP TO 9	200 VA Transformer	JL-0780-XX
UP TO 11	250 VA Transformer	JL-0781-XX
UP TO 16	350 VA Transformer	JL-0781-AA

WALL or ROOF EXHAUST FAN AS REQUIRED

**CANADA AND SOME STATES REQUIRE INTERLOCKED EXHAUST FOR LUMINOUS HEATING SYSTEMS (CHECK LOCAL & NATIONAL CODES)*

USA REQUIRES 4 CFM PER 1,000 BTUH INPUT

CANADA REQUIRES 300 CFM PER 100,000 BTUH INPUT (INTERLOCKED MECHANICAL EXHAUST)

AND
EITHER

LINE VOLTAGE THERMOSTAT
JL-0772-XX
CALL FOR HEAT POWERS:
EXHAUST FAN OR 24V SYSTEM TRANSFORMER DIRECTLY
PROVING SWITCH OR 24V SYSTEM TRANSFORMER

TruTemp THERMOSTAT
JM-0150-XX
REQUIRES 24 VOLT TRANSFORMER-RELAY JM-0300-XX
TO POWER 24V TruTemp THERMOSTAT:
RELAY POWERS UP 120V EXHAUST FAN OR SYSTEM TRANSFORMER DIRECTLY

24 VOLT THERMOSTAT JS-0569-XX
REQUIRES 24 VOLT TRANSFORMER-RELAY JM-0300-XX
TO POWER 24 VOLT THERMOSTAT:
RELAY POWERS UP 120V EXHAUST FAN OR SYSTEM TRANSFORMER DIRECTLY

50' JACK CHAIN KIT
JL-0798-JC
4 SUSPENSION POINTS per HEATER
= CHAIN REQUIRED FOR EACH HEATER:
4 X DISTANCE BELOW STRUCTURAL FASTENING

S' HOOKS - Pkg of 25
JL-0798-SH
TYPICALLY 8 'S' HOOKS PER HEATER

FLEXIBLE GAS CONNECTOR
Up to 155,000 Btu: 1/2" x 18": JL-0771-FF
Over 155,000 Btu: 3/4" x 24": JL-0771-ZZ



Typical accessories are listed below.
 Other accessories: next page
 Transformers: page L-13

supraSchwank SERIES

WORLD'S HIGHEST RADIANT FACTOR COMBINED INTENSITY HEATERS

supraSchwank heaters have a radiant output factor of up to 81%

Heaters are shipped complete with gas valve and electronic ignition control.

Optional accessories are listed below, and on the next page

<u>MODEL</u>	<u>CAPACITY</u>	<u>I.R. OUTPUT</u>	<u>GAS</u>	<u>PART #</u>
supraSchwank 10 N/L	29,500 Btuh	22,800	NG	SU-0010-NG
			LP	SU-0010-LP
supraSchwank 15 N/L	44,000 Btuh	34,600	NG	SU-0015-NG
			LP	SU-0015-LP
supraSchwank 20 N/L	59,000 Btuh	46,700	NG	SU-0020-NG
			LP	SU-0020-LP
supraSchwank 30 N/L	88,500 Btuh	71,800	NG	SU-0030-NG
			LP	SU-0030-LP
supraSchwank 40 N/L	118,000 Btuh	95,800	NG	SU-0040-NG
			LP	SU-0040-LP

**Please contact
 your local
 Schwank
 Representative
 or Customer
 Service for
 Project Pricing**

All supraSchwank heaters require 24 volt connection

supraSchwank burners are available for process application - Contact Schwank

OPTIONAL ACCESSORIES FOR supraSchwank

	<u>PART #</u>	<u>LIST PRICE</u>
Flexible Gas Connector 1/2" x 18"	JL-0771-FF	\$ 24.90
Flexible Gas Connector 1/2" x 24"	JL-0771-XX	32.00
#8 Hanging Chain - box 50'	JL-0798-JC	58.00
'S' Hooks - Package of 25	JL-0798-SH	22.50
Angle Mounting Bracket (Pair) (Not for Supra 40)	JO-0331-XX	84.00
Pressure Equalizer Venturi Cover (for Drafty Areas)	JO-0368-XX	155.00
<i>Note: SUPRA 40 Requires <u>Two</u> Venturi Covers</i>		
Control Protector Cover (All Models Except Supra 40)	JO-0366-XX	217.00

THERMOSTATS - For 24V Thermostat control requirements see page L-13

Line Voltage (120V) Thermostat	JL-0772-XX	\$ 38.30
Low Voltage (24V) Digital Thermostat - °F & °C (Requires Transformer/Relay JM-0300-XX below)	JS-0569-WR	64.00
TruTemp Set Back Infra-red Thermostat (24V) (Requires Transformer/Relay JM-0300-XX below)	JM-0150-XX	206.00
Transformer/Relay (Required for TruTemp or 24V Thermostat)	JM-0300-XX	103.00

supraSCHWANK SERIES OTHER ACCESSORIES

Typical accessories: previous page

Transformers: page L-13

EXHAUST SYSTEMS

Schwank no longer offers exhaust fan systems for luminous heaters - these are readily available via local distribution.

Exhaust System Sizing:

- ✓ Luminous heaters are installed unvented
- ✓ Check local & national code requirements
- ✓ National Code Exhaust Volume Requirements (in brief):

☞ **USA:** 4 cfm exhaust per 1,000 Btuh input

☞ **Canada:** 300 cfm interlocked mechanical exhaust per 100,000 Btuh input or any fraction thereof

For all installations, the exhaust or opening for removal of flue products must be located above the level of the heaters.

TILE PROTECTING GRILL: Longer lead times for this accessory

(1" X 1" Rigid Screen)

	<u>PART #</u>	<u>LIST PRICE</u>
For: supraSchwank 10	JU-0355-XX-P	\$ 84.00
supraSchwank 15	JU-0358-XX-P	103.00
supraSchwank 20	JU-0356-XX-P	113.00
supraSchwank 30	JU-0357-XX-P	134.00

CEILING PROTECTION PLATE: Longer lead times for this accessory

For: supraSchwank 10	Uninsulated	JU-0359-UN	\$ 134.00
supraSchwank 15	Uninsulated	JU-0362-UN	165.00
supraSchwank 20	Uninsulated	JU-0360-UN	196.00
supraSchwank 30	Uninsulated	JU-0361-UN	227.00

REFLECTOR EXTENSIONS

For: supraSchwank 10	Single Side	JU-0336-SG	\$ 59.00
	Venturi Side	JU-0339-XX	59.00
supraSchwank 15	Single Side	JU-0342-SG	72.00
	Venturi Side	JU-0342-XX	72.00
supraSchwank 20	Single Side	JU-0337-SG	84.00
	Venturi Side	JU-0340-XX	84.00
supraSchwank 30	Single Side	JU-0338-SG	124.00
	Venturi Side	JU-0341-XX	124.00
supraSchwank 40	Either Side	JU-0340-XX	84.00

PROTECTIVE COVERS - FIT ALL supraSCHWANK MODEL SIZES

Control Protector Cover(Not for supra 40)	JO-0366-XX	\$ 217.00
Pressure Equalizer Venturi Cover(for Drafty Areas) <i>SUPRA 40 Requires <u>Two</u> Venturi Covers</i>	JO-0368-XX	155.00



Typical accessories are listed below
Other accessories: next page
Transformers: page L-13

primoSchwank SERIES

VERY HIGH RADIANT FACTOR COMBINED INTENSITY HEATERS

primoSchwank heaters have a radiant output factor of up to 67%

Heaters are shipped complete with gas valve and electronic ignition control.

Optional accessories are listed below, and on the next page.

<u>MODEL</u>	<u>CAPACITY</u>	<u>I.R. OUTPUT</u>	<u>GAS</u>	<u>PART #</u>
primoSchwank 10 N/L	37,500 Btuh	24,600	NG LP	MO-0010-NG MO-0010-LP
primoSchwank 15 N/L	56,000 Btuh	35,400	NG LP	MO-0015-NG MO-0015-LP
primoSchwank 20 N/L	75,000 Btuh	49,100	NG LP	MO-0020-NG MO-0020-LP
primoSchwank 30 N/L	113,000 Btuh	75,400	NG LP	MO-0030-NG MO-0030-LP
primoSchwank 40 N/L	150,000 Btuh	97,700	NG LP	MO-0040-NG MO-0040-LP

**Please contact
your local
Schwank
Representative
or Customer
Service for
Project Pricing**

All primoSchwank heaters require 24 volt connection

OPTIONAL ACCESSORIES FOR primoSchwank

	<u>PART #</u>	<u>LIST PRICE</u>
Flexible Gas Connector 1/2" x 18"	JL-0771-FF	\$ 24.90
Flexible Gas Connector 1/2" x 24"	JL-0771-XX	32.00
#8 Hanging Chain, box 50'	JL-0798-JC	58.00
'S' Hooks - Package of 25	JL-0798-SH	22.50
Angle Mounting Bracket (Pair) (Not for Primo 40)	JO-0331-XX	84.00
Pressure Equalizer Venturi Cover (for Drafty Areas)	JO-0368-XX	155.00
<i>Note: PRIMO 40 Requires Two Venturi Covers</i>		
Control Protector Cover (All Models Except Primo 40)	JO-0366-XX	217.00

THERMOSTATS - For 24V Thermostat control requirements see page L-13

Line Voltage (120V) Thermostat	JL-0772-XX	\$ 38.30
Low Voltage (24V) Digital Thermostat - °F & °C (Requires Transformer/Relay JM-0300-XX below)	JS-0569-WR	64.00
TruTemp Set Back Infra-red Thermostat (24V) (Requires Transformer/Relay JM-0300-XX below)	JM-0150-XX	206.00
Transformer/Relay (Required for TruTemp or 24V Thermostat)	JM-0300-XX	103.00

primoSchwank SERIES
OTHER ACCESSORIES

Typical accessories: previous page
Transformers: page L-13

EXHAUST SYSTEMS

Schwank no longer offers exhaust fan systems for luminous heaters - these are readily available via local distribution.

Exhaust System Sizing:

- ✓ Luminous heaters are installed unvented
- ✓ Check local & national code requirements
- ✓ National Code Exhaust Volume Requirements (in brief):

☞ **USA:** 4 cfm exhaust per 1,000 Btuh input

☞ **Canada:** 300 cfm interlocked mechanical exhaust per 100,000 Btuh input or any fraction thereof

For all installations, the exhaust or opening for removal of flue products must be located above the level of the heaters.

TILE PROTECTING GRILLE: Longer lead times for this accessory
(1" X 1" Rigid Screen)

	<u>PART #</u>	<u>LIST PRICE</u>
For: primoSchwank 10	JO-0355-XX-P	\$ 84.00
primoSchwank 15	JO-0358-XX-P	98.00
primoSchwank 20	JO-0356-XX-P	113.00
primoSchwank 30	JO-0357-XX-P	135.00

CEILING PROTECTION PLATE: Longer lead times for this accessory

For: primoSchwank 10 Uninsulated	JO-0359-UN	\$ 155.00
primoSchwank 15 Uninsulated	JO-0362-UN	175.00
primoSchwank 20 Uninsulated	JO-0360-UN	196.00
primoSchwank 30 Uninsulated	JO-0361-UN	227.00

REFLECTOR EXTENSIONS

For: primoSchwank 10	Single Side	JO-0336-SG	\$ 58.00
	Venturi Side	JO-0339-XX	58.00
primoSchwank 15	Single Side	JO-0342-SG	72.00
	Venturi Side	JO-0342-XX	72.00
primoSchwank 20	Single Side	JO-0337-SG	84.00
	Venturi Side	JO-0340-XX	84.00
primoSchwank 30	Single Side	JO-0338-SG	115.00
	Venturi Side	JO-0341-XX	115.00

COVERS FOR ALL primoSCHWANK MODEL SIZES

Control Protector Cover (Not for Primo 40)	JO-0366-XX	\$ 217.00
Pressure Equalizer Venturi Cover (for Drafty Areas) <i>PRIMO 40 Requires <u>Two</u> Venturi Covers</i>	JO-0368-XX	155.00



Typical accessories are listed below.
 Other accessories: next page
 Transformers: page L-13

ecoSchwank SERIES LUMINOUS (High Intensity) HEATERS

ecoSchwank Series heaters include assembled reflectors, gas valve and electronic ignition control. Optional accessories are listed below, and on next page.

<u>MODEL</u>		<u>CAPACITY</u>	<u>GAS</u>	<u>PART #</u>	<u>LIST PRICE</u>
ecoSchwank 6	N or L	21,500 Btuh	NG	EC-0025-NG	\$ 497.00
			LP	EC-0025-LP	497.00
ecoSchwank 10	N or L	35,000 Btuh	NG	EC-0037-NG	517.00
			LP	EC-0037-LP	517.00
ecoSchwank 13	N or L	50,000 Btuh	NG	EC-0050-NG	620.00
			LP	EC-0050-LP	620.00
ecoSchwank 18	N or L	71,500 Btuh	NG	EC-0075-NG	725.00
			LP	EC-0075-LP	725.00
ecoSchwank 26	N or L	100,000 Btuh	NG	EC-0100-NG	780.00
			LP	EC-0100-LP	780.00
ecoSchwank 36	N or L	143,000 Btuh	NG	EC-0150-NG	1,345.00
			LP	EC-0150-LP	1,345.00
ecoSchwank 52	N or L	200,000 Btuh	NG	EC-0200-NG	1,475.00
			LP	EC-0200-LP	1,475.00

All ecoSchwank heaters require 24 volt connection

Also available with millivolt ignition - see Section 4 page P-12

ecoSchwank burners are available for process application - Contact your Schwank representative

OPTIONAL ACCESSORIES FOR ECO SERIES

	<u>PART #</u>	<u>LIST PRICE</u>
Flexible Gas Connector 1/2" x 18" (Up to 155,000 Btuh)	JL-0771-FF	\$ 24.90
Flexible Gas Connector 1/2" x 24" (Up to 155,000 Btuh)	JL-0771-XX	32.00
Flexible Gas Connector 3/4" x 24" - for ECO 52	JL-0771-ZZ	100.00
#8 Hanging Chain - box 50'	JL-0798-JC	58.00
'S' Hooks - Package of 25	JL-0798-SH	22.50
Pressure Equalizer Venturi Cover (for Drafty Areas) <i>Note: ECO 36 & 52 Require <u>Two</u> Venturi Covers</i>	JO-0368-XX	155.00

THERMOSTATS - For 24V Thermostat control requirements see page L-13

Line Voltage (120V) Thermostat	JL-0772-XX	\$ 38.30
Low Voltage (24V) Digital Thermostat °F & °C (Requires Transformer/Relay JM-0300-XX Below)	JS-0569-WR	64.00
TruTemp Set Back Infra-red Thermostat (24V) (Requires Transformer/Relay JM-0300-XX Below)	JM-0150-XX	206.00
Transformer/Relay (Required for TruTemp or 24V Thermostat)	JM-0300-XX	103.00

ecoSchwank SERIES OTHER ACCESSORIES

Typical accessories: previous page

Transformers: page L-13

EXHAUST SYSTEMS

Schwank no longer offers exhaust fan systems for luminous heaters - these are readily available via local distribution.

Exhaust System Sizing:

- ✓ Luminous heaters are installed unvented
- ✓ Check local & national code requirements
- ✓ National Code Exhaust Volume Requirements (in brief):

☞ **USA:** 4 cfm exhaust per 1,000 Btuh input

☞ **Canada:** 300 cfm interlocked mechanical exhaust per 100,000 Btuh input or any fraction thereof

For all installations, the exhaust or opening for removal of flue products must be located above the level of the heaters.

TILE PROTECTING GRILLE: *Longer lead times for this accessory* (1/2" X 1/2" Bird Screen)

	<u>PART #</u>	<u>LIST PRICE</u>
For: ecoSchwank 6	JX-0249-XX	\$ 25.90
ecoSchwank 10	JX-0252-XX	25.90
ecoSchwank 13	JX-0253-XX	33.20
ecoSchwank 18	JX-0254-XX	43.50
ecoSchwank 26	JX-0255-XX	49.70

CEILING PROTECTION PLATE: *Longer lead times for this accessory*

For: ecoSchwank 6 & 10	Uninsulated	JX-0256-UN	\$ 124.00
ecoSchwank 13	Uninsulated	JX-0257-UN	144.00
ecoSchwank 18	Uninsulated	JX-0258-UN	196.00
ecoSchwank 26	Uninsulated	JX-0259-UN	238.00

REFLECTOR EXTENSIONS

For: ecoSchwank 6	Single	JX-0260-SG-P	\$ 41.40
	Pair	JX-0260-PR-P	82.80
ecoSchwank 10	Single	JX-0236-SG-P	41.40
	Pair	JX-0236-PR-P	82.80
ecoSchwank 13	Single	JX-0237-SG-P	57.00
	Pair	JX-0237-PR-P	114.00
ecoSchwank 18	Single	JX-0238-SG-P	84.00
	Pair	JX-0238-PR-P	168.00
ecoSchwank 26	Single	JX-0239-SG-P	124.00
	Pair	JX-0239-PR-P	248.00

TruTemp
 Infrared Setback
 Thermostat



SCHWANK TruTemp INFRARED SETBACK THERMOSTAT

NOT FOR USE IN WET ENVIRONMENTS

The only infrared thermostat that senses and averages radiant and ambient temperatures for true comfort control and efficient radiant heating system operation. An automatic setback feature further adds to fuel savings when the heated space is unoccupied. TruTemp thermostat can be used in conjunction with all Schwank heaters. 4" Diameter fits standard electrical box.

<u>ITEM</u>	<u>VOLTAGE</u>	<u>PART #</u>	<u>LIST PRICE</u>
TruTemp Thermostat	24 Volt	JM-0150-XX	\$ 206.00

FIELD MOUNTED OPTION REQUIRED FOR TruTemp THERMOSTAT OPERATION (see Guidelines next page)

- **MULTIPLE LUMINOUS HEATERS with SINGLE TruTemp per ZONE**

ORDER **TruTemp +**

1 Transformer/Relay
 (Field Mounted)



JM-0300-XX \$ 103.00

The transformer/relay provides 24V to the TruTemp. Call for heat by TruTemp closes relay switch, sending 120V to the system transformer (required separately) to power up heaters.

SECURITY OPTION TO PREVENT UNAUTHORIZED TAMPERING

Two S/S Tamperproof Screws and One Tool <i>(Order for the First TruTemp on Project)</i>	JM-0180-XX	\$ 63.00
Two S/S Tamperproof Screws <i>(Order for Each Additional TruTemp on Project)</i>	JM-0180-AA	6.30

24V TRANSFORMERS

for ALL LUMINOUS (High Intensity) HEATERS

<u>QTY HEATERS*</u>	<u>SIZE</u>		<u>PART #</u>	<u>LIST PRICE</u>
1 Heater	40 VA Transformer	4"x4" Electrical Box Mount	JL-0776-XX	\$ 67.00
Up to 4	100 VA Transformer	Closed Type	JL-0778-XX	127.00
5 to 6	150 VA Transformer	Closed Type	JL-0779-XX	152.00
7 to 9	200 VA Transformer	Closed Type	JL-0780-XX	174.00
10 to 12	250 VA Transformer	Closed Type	JL-0781-XX	191.00
13 to 16	350 VA Transformer	Closed Type	JL-0781-AA	223.00

* Except patioSchwank - See Below for Sizing Guidelines

See INSTALLATION MANUAL to determine gauge of wire to be used. Minimum 16 gauge).

24V TRANSFORMER SIZING:

For Space & Area Heating & Process Applications

- 1] Transformer mounted at heater:
 - Use 40 VA 24V transformer for each individual heater.
- 2] Transformer mounted remote from heater:
 - On a single heater use one 40 VA 24V transformer.
 - On a zone with multiple heaters, use transformer sized at 40VA per first heater plus 20VA for each additional heater

For patioSchwank 2300 Series

- On a single heater use one 40 VA 24V transformer.
- On a zone or patioPanel with multiple heaters, use transformer sized at 40 VA for the first heater and 30 VA per each additional heater.

LUMINOUS HEATER 24V CONTROL OPTION GUIDELINES

for: TruTemp / 24V Thermostat / patioPanel / Remote Control

Single heater per low voltage control zone requires one 40VA transformer (JL-0776-XX) per heater.

Multiple heaters per zone : maximum 15 heaters per TruTemp or 24V Thermostat

ORDER per ZONE - 1 TruTemp or 24V Thermostat + 1 Transformer Relay (JM-0300-XX) + 1 Transformer

OBSERVE THE FOLLOWING ONLY IF THE HEATING SYSTEM REQUIRES INTERLOCK TO AN EXHAUST FAN. (Canada B-149)

FOR TruTemp or 24V Thermostat Control:

- **ORDER for EACH ZONE** - one JM-0300-XX Transformer Relay + one TruTemp or 24V thermostat
- 120V to the transformer relay -> supplies 24V to the thermostat.
- Call-for-heat: 24V through thermostat to the relay: relay closes providing 120V to the exhaust fan.
- Proving air switch at exhaust fan closes, supplying 120V to the heater zone transformer.
- NOTE: The transformer relay does not directly energize the heaters in the system.
 - A separate transformer is required to power the 24V heaters.
 - Size transformer: 40VA for 1st heater + 20VA for each additional heater in the zone (see page L-13).

The number of heaters in any zone is determined by the following zone sizing parameters:

- 1) the capacity of the exhaust fan.
- 2) the proximity of the heaters to the fan.
- 3) Quantity of heaters required to satisfy zone size conditions of the project site.

TUBE HEATER 24V GUIDELINES are on page T-51

GAS CONVERSION KITS SCHWANK LUMINOUS HEATERS

NOTE: Conversion kits are NOT available for: 2000 Series luminous heaters (high intensity) - contact Schwank

When ordering, please provide heater model number and gas type to convert to

SCHWANK LUMINOUS (HIGH INTENSITY) HEATERS

<u>Heater Model</u>	<u>NG to LP</u>	<u>LP to NG</u>	<u>List Price</u>
ECO 6, 2312	JC-CADL-KX	JC-CADN-KX	\$ 46.60
ECO 8, JR-25	JX-0253-XA-A	JX-0252-XA-A	46.60
ECO 10, 2313, JR-37	JX-0253-XA	JX-0252-XA	46.60
ECO 13, 2315, JR-50	JX-0253-XB	JX-0252-XB	46.60
ECO 18, JR-75	JX-0253-XC	JX-0252-XC	46.60
ECO 26, JR-100	JX-0253-XD	JX-0252-XD	46.60
ECO 36	JX-0253-XC-A	JX-0252-XC-A	54.60
ECO 52	JX-0253-XD-A	JX-0252-XD-A	54.60
	<u>NG to LP</u>	<u>LP to NG</u>	
PRIMO 10	JO-0350-XX	JO-0349-XX	\$ 45.60
PRIMO 15	JO-0348-NG	JO-0348-LP	45.60
PRIMO 20	JO-0352-XX	JO-0351-XX	45.60
PRIMO 30	JO-0354-XX	JO-0353-XX	45.60
PRIMO 40	JO-0352-XX-A	JO-0351-XX-A	84.00
	<u>NG to LP</u>	<u>LP to NG</u>	
SUPRA 10	JU-0350-XX	JU-0349-XX	\$ 46.60
SUPRA 15	JU-0352-XX	JU-0351-XX	46.60
SUPRA 20	JU-0354-XX	JU-0353-XX	46.60
SUPRA 30	JU-0356-XX	JU-0355-XX	46.60
SUPRA 40	JU-0354-XX-A	JU-0353-XX-A	84.00



ARENA SPECTATOR 'COMFORT' HEATING

Contact Schwank Design for Arena Heating: Fax 1-866-724-9265; design@SchwankGroup.com

In community arenas, infrared spot heating is the most effective solution for spectator areas. Desired 'comfort' results directly from the contact of infrared radiant heat produced by an IR heating system.

In designing an arena spectator heating system, it is necessary to remember that "heat" in an ice-making facility is somewhat counter productive to the efforts of facility staff to produce and maintain both the ice and the facility structure.

Any convection heat produced by the IR system is detrimental to arena facility ice-making operations, and the moisture in the products of combustion can have a negative impact on structure by condensing on the cold interior surfaces of the building.

NOTE: Schwank does not recommend the use of tube heaters for arena spectator heating due to lower radiant intensity and less effective focus or direction of the infrared heat output. However, in exceptional cases tube heaters can be used as an alternate.

As far as arena staff are concerned, spectator heating is viewed strictly as a "necessary evil".

The optimum arena heating design must not only provide spectator comfort, but must also reduce the concerns of the arena staff regard arena operation. Schwank luminous heaters meet and exceed these requirements:

Design the system with heaters of the highest possible infrared radiant efficiency that will 'fit' the budget. Maximize spectator comfort while minimizing operating costs and any negative impact on arena operations.	Schwank luminous heaters have higher infrared radiant efficiencies than <u>ANY</u> competitor's models: Good ecoSchwank = 50% IR output - others have 35% Better primoSchwank = 67% IR output - NO competitors Best supraSchwank = 81% IR output = <u>world's</u> highest
Lowest total input has the least negative impact on arena operations: least 'waste heat', least moisture produced.	The high radiant efficiency of Schwank luminous heaters ensures lowest input for maximum spectator comfort. The supraSchwank (81% IR efficient) is by far the most effective choice.
The fewest possible heaters operating for the shortest period of time ensure the least negative impact while providing the desired spectator comfort.	Schwank's highest radiant efficiencies ensures that the fewest heaters will do the job, while the Arena Control Panel provides individual control of each heater or small 'zones'. The panel's master override timer guaranties that the system will shut down when required - it just simply doesn't "forget" to shut heaters down.

SCHWANK ARENA CONTROL PANEL

ARENA CONTROL PANEL CENTRALLY CONTROLS THE DURATION OF OPERATION OF SCHWANK HEATERS FOR ARENA SPECTATOR HEATING, OR ANY APPLICATION WHERE DURATION CONTROL OF MULTI-ZONE HEATING IS REQUIRED.

Includes: A master timer that is adjusted by the operator to the desired duration of heating system operation;
A master on/off switch with status light;
The quantity of switches with status lights to match the number of zones/heaters being installed;
All components mounted on an 11" x 13" x 4" deep control box with hinged front panel;
Also included separately is a transformer relay (field installation required) to power the arena panel;
Not included is any 120/24 Volt transformer required to power high intensity luminous heaters (refer to page L-13 for 24V transformer sizing and pricing).

NOTE: Indicate the number of heating zones required when ordering an Arena Panel.

For arena applications, Schwank recommends one (or at most two) heaters per zone.

For extraordinary projects contact Schwank.

<u>MODEL</u>	<u>NUMBER OF HEATERS or ZONES</u>	<u>PART #</u>	<u>LIST PRICE</u>
ACPT- 8	up to 8	JM-0408-XX	\$ 1,142.00
ACPT-12	up to 12	JM-0412-XX	1,230.00
ACPT-16	up to 16	JM-0416-XX	1,340.00