



PRODUCT PRICE LIST 2021 USA

PRICES IN EFFECT AUGUST 16, 2021

RELEASE: 21-2A, JUNE 30, 2021



QUICK REFERENCE:

Air Curtains	Pages 6 to 8
High Intensity Infrared Heaters	Pages 9 to 11
Low Intensity Radiant Tube Heaters	Pages 12 to 49
Outdoor Infrared Heaters	Pages 50 to 63

Infrasave

2 Schwank Way
Waynesboro, GA 30830

Orders, Customer Service & Technical Support

1-877-686-3779

Fax: 1-866-361-0523

Design Services

Fax: 1-866-361-0523

design@infrasave.com

Inquiry email: csr@infrasave.com

Visit our website for current product information

www.infrasave.com

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Infrasave gas-fired heaters are certified by UL



As of the effective date, these price sheets supersede all previous price sheets.

PRICE LIST RELEASE NOTES

PRODUCT NOTES - 2021

✓ **Infrasave superTube U-tube Models**

Infrasave superTube heaters are now available in single-reflector U-tube configuration. Infrasave superTube is the next generation of tube heaters with ECM blower and optimized reflector available in 1-stage and 2-stage operating modes. Please see Page 18 for more details.

✓ **Electric Heater - Electromechanical Relay Package**

Infrasave offers a wide range of custom control options for electric heaters to meet any heating settings, configurations and budget. The addition of Electromechanical relay package with NEMA 4 enclosure let you optimize your comfort in any indoor/outdoor setting. Please see page 60 for more details.

Download Product Information and Price List Updates at:

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

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Tube heaters are shipped as 'Burner Kits' & 'Tube Kits' in separate cartons

These price sheets supersede all other price sheets

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

F.O.B. Mississauga, Ontario

All Applicable Taxes Extra

Terms: Net 30 Days

1 1/2% Monthly Interest On Overdue Accounts

Prices subject to change without notice

Credit Terms

When credit is extended by Infrasave the terms are: Net 30 days

1% Monthly Interest On Overdue Accounts

Minimum Invoice: A minimum order of \$50.00 is required for invoicing

Infrasave Returns Policy

Please contact Customer Service regarding any product return: 1-877-686-3779; csr@infrasave.com

Approval must be issued in advance by Infrasave before any returns will be accepted.

All goods being returned must be accompanied by a completed Return Authorization form.

Infrasave reserves the right to disallow the return of sold goods.

Warranty Parts

Infrasave is proud of the quality of the products we manufacture; Some component parts can fail occasionally.

If a component failure occurs, the following procedure must be followed:

- 1 The heater MODEL # & SERIAL # are required before contacting customer service
- 2 Contact Infrasave to determine if the item needs to be returned or if the item will be field scrapped
- 3 For the return of a component part a Return Authorization form will be provided by Infrasave
 - a. Item must be returned shipping "Prepaid" unless otherwise agreed beforehand
 - b. Any unauthorized "Collect" shipments will be refused

Restocking Returns

To return an item for credit against an invoice within 30 days of purchase:

- 1 Contact Infrasave customer service to be issued a Return Authorization Form [RGA]
- 2 The RGA must accompany any return
- 3 Any item must be returned shipping "Prepaid" unless otherwise agreed by Infrasave
- 4 Returned items must be in "new condition" and in original packaging / carton
- 5 Upon receipt of the product and RGA, the credit amount will be determined:
 - a. Items returned are subject to a 25% restocking charge
 - b. Items that are missing or in need of repair or repackaging will have associated costs deducted from credit

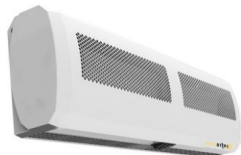
Charge Backs

A heater must be properly commissioned and the Commissioning Form accurately completed and returned to Infrasave. A Commissioning Form is located in the I&O Manual supplied with each heater.

Any charge back claim must be approved in writing by Infrasave Technical Services prior to commencement of work.

Freight Zones & Charges

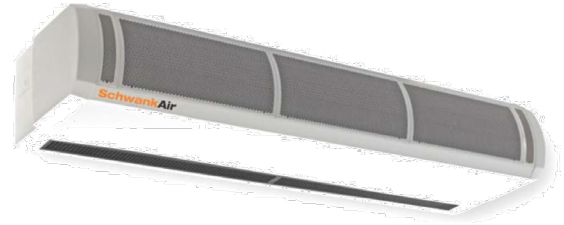
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500 Series



1200 Series



2000 Series

Surface Mount Air Curtains

STACK MODELS OF SAME SERIES END-TO-END FOR WIDER DOORS

REFER TO BROCHURE, MANUAL, OR SUBMITTAL DATA FOR DETAILED SPECIFICATIONS

500

<u>Model</u>	<u>Max. Door</u>	<u>CFM</u>	<u>Curtain Heat Output</u>		<u>FLA</u>	<u>Dimensions (Inches)</u>			<u>Part Number</u>	<u>LIST PRICE</u>
	<u>Height</u>		(Btuh)	<u>kW</u>		<u>Length</u>	<u>Height</u>	<u>Depth</u>		
500 Series: SURFACE MOUNT - ELECTRIC HEAT - 208/1/60										
524EH	7' 6"	120	3,860 / 7,685	1.13 / 2.25	12	24	8	4.75	AC-JE24-20	\$ 962.00
532EH	7' 6"	220	8,400 / 16,770	2.46 / 4.91	25	32	8	4.75	AC-JE32-20	1,357.00

1200

<u>Model</u>	<u>Max. Door</u>	<u>CFM</u>	<u>Curtain Heat Output</u>		<u>FLA</u>	<u>Dimensions (Inches)</u>			<u>Part Number</u>	<u>LIST PRICE</u>
	<u>Height</u>		(Btuh)	<u>kW</u>		<u>Length</u>	<u>Height</u>	<u>Depth</u>		
1200 Series: SURFACE MOUNT - AMBIENT [NO HEAT] - 120/1/60 : w/ WIRELESS REMOTE & DOOR SWITCH - BLACK COLOR ONLY										
1036	9'	1177 / 942	-	-	3.2	37.2	10.2	8.7	AC-1036-12-BK	\$ 1,143.00
1048	9'	1648 / 1295	-	-	4.5	49.2	10.2	8.7	AC-1048-12-BK	\$ 1,455.00
1060	9'	2119 / 1648	-	-	5.75	61.2	10.2	8.7	AC-1060-12-BK	\$ 1,663.00

2000

Model	Max. Door	CFM	Curtain Heat Output		FLA	Dimensions (Inches)			Part Number	LIST PRICE
	Height		(Btuh)	kW		Length	Height	Depth		
2000 Series: SURFACE MOUNT - AMBIENT [NO HEAT] - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2045	10'	740	-	-	0.5	45	8	11	AC-CA45-23	\$ 3,021.00
2066	10'	1060	-	-	0.7	66	8	11	AC-CA66-23	3,458.00
2087	10'	1470	-	-	1	87	8	11	AC-CA87-23	4,395.00
2000 Series: SURFACE MOUNT - ELECTRIC HEAT - 208/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2045EH	10'	740	15,370 / 30,735	4.5 / 9	24.5	45	8	11	AC-CE45-20	\$ 3,192.00
2066EH	10'	1060	20,490 / 40,980	6 / 12	32.7	66	8	11	AC-CE66-20	3,545.00
2087EH	10'	1470	30,735 / 61,470	9 / 18	49	87	8	11	AC-CE87-20	5,699.00
2000 Series: SURFACE MOUNT - ELECTRIC HEAT - 480/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2045EH	10'	740	15,370 / 30,735	4.5 / 9	10.9	45	8	11	AC-CE45-48	\$ 3,192.00
2066EH	10'	1060	20,490 / 40,980	6 / 12	13.5	66	8	11	AC-CE66-48	3,545.00
2087EH	10'	1470	30,735 / 61,470	9 / 18	21.7	87	8	11	AC-CE87-48	5,699.00
2000 Series: SURFACE MOUNT - ELECTRIC HEAT - 600/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2045EH	10'	740	15,370 / 30,735	4.5 / 9	9.3	45	8	11	AC-CE45-60	\$ 3,192.00
2066EH	10'	1060	20,490 / 40,980	6 / 12	12.8	66	8	11	AC-CE66-60	3,545.00
2087EH	10'	1470	30,735 / 61,470	9 / 18	18.6	87	8	11	AC-CE87-60	5,699.00
2000 Series: SURFACE MOUNT - HOT WATER HEAT - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2045WH	10'	700	10,245 / 20,490	3 / 6	0.5	45	8	11	AC-CW45-23	\$ 3,382.00
2066WH	10'	1000	15,370 / 30,735	4.5 / 9	0.7	66	8	11	AC-CW66-23	3,953.00
2087WH	10'	1400	20,490 / 40,980	6 / 12	1	87	8	11	AC-CW87-23	5,175.00



2500 Series

Surface Mount Air Curtains - 2500 Series

STACK MODELS OF SAME SERIES END-TO-END FOR WIDER DOORS

REFER TO BROCHURE, MANUAL, OR SUBMITTAL DATA FOR DETAILED SPECIFICATIONS

2500

<u>Model</u>	<u>Max. Door Height</u>	<u>CFM</u>	<u>Curtain Heat Output (Btuh)</u>	<u>kW</u>	<u>FLA</u>	<u>Dimensions (Inches)</u>			<u>Part Number</u>	<u>LIST PRICE</u>
						<u>Length</u>	<u>Height</u>	<u>Depth</u>		
2500 Series: SURFACE MOUNT - AMBIENT [NO HEAT] - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2551	11' 6"	900	-	-	1.4	51.2	12.1	18.4	AC-HA51-23	\$ 4,302.00
2572	11' 6"	1315	-	-	2	71.9	12.1	18.4	AC-HA72-23	5,803.00
2593	11' 6"	1735	-	-	2.8	92.5	12.1	18.4	AC-HA93-23	7,154.00
2500 Series: SURFACE MOUNT - ELECTRIC HEAT - 208/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2551EH	11' 6"	810	20,473 / 40,946	6 / 12	36	51.2	12.1	18.4	AC-HE51-20	\$ 5,612.00
2572EH	11' 6"	1165	40,946 / 61,418	12 / 18	54	71.9	12.1	18.4	AC-HE72-20	7,596.00
2593EH	11' 6"	1460	40,946 / 81,891	12 / 24	72	92.5	12.1	18.4	AC-HE93-20	9,297.00
2500 Series: SURFACE MOUNT - ELECTRIC HEAT - 480/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2551EH	11' 6"	900	20,473 / 40,946	6 / 12	13.5	51.2	12.1	18.4	AC-HE51-48	\$ 5,612.00
2572EH	11' 6"	1315	40,946 / 61,418	12 / 18	21.7	71.9	12.1	18.4	AC-HE72-48	7,596.00
2593EH	11' 6"	1735	40,946 / 81,891	12 / 24	28.9	92.5	12.1	18.4	AC-HE93-48	9,297.00
2500 Series: SURFACE MOUNT - ELECTRIC HEAT - 600/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2551EH	11' 6"	900	20,473 / 40,946	6 / 12	11.6	51.2	12.1	18.4	AC-HE51-60	\$ 5,612.00
2572EH	11' 6"	1315	40,946 / 61,418	12 / 18	17.3	71.9	12.1	18.4	AC-HE72-60	7,596.00
2593EH	11' 6"	1735	40,946 / 81,891	12 / 24	23.1	92.5	12.1	18.4	AC-HE93-60	9,297.00
2500 Series: SURFACE MOUNT - HOT WATER HEAT - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2551WH	11' 6"	900	20,473 / 40,946	6 / 12	1.4	51.2	12.1	18.4	AC-HW51-23	\$ 5,612.00
2572WH	11' 6"	1315	30,709 / 61,418	9 / 18	2	71.9	12.1	18.4	AC-HW72-23	7,596.00
2593WH	11' 6"	1735	40,946 / 81,891	12 / 24	2.8	92.5	12.1	18.4	AC-HW93-23	9,297.00



Recessed Mount Air Curtains

2000R & 2500R Series

(Mount in ceiling recess above door and discharge downward)

STACK MODELS OF SAME SERIES END-TO-END FOR WIDER DOORS

2000R		Max. Door	Curtain Heat Output			Dimensions (Inches)			Part Number	LIST PRICE
Model	Height	CFM	(Btuh)	kW	FLA	Length	Height	Depth		
2000R Series: SURFACE MOUNT - AMBIENT [NO HEAT] - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2047R	9'	740	-	-	0.5	47	8	14	AC-CA47-23-R	\$ 3,423.00
2063R	9'	1060	-	-	0.7	63	8	14	AC-CA63-23-R	4,244.00
2083R	9'	1470	-	-	1	83	8	14	AC-CA83-23-R	5,292.00
2000R Series: SURFACE MOUNT - ELECTRIC HEAT - 208/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2047EHR	9'	740	15,370 / 30,735	4.5 / 9	24.5	47	8	14	AC-CE47-20-R	\$ 4,261.00
2063EHR	9'	1060	20,490 / 40,980	6 / 12	32.7	63	8	14	AC-CE63-20-R	4,995.00
2083EHR	9'	1470	30,735 / 61,470	9 / 18	49	83	8	14	AC-CE83-20-R	7,405.00
2000R Series: SURFACE MOUNT - ELECTRIC HEAT - 480/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2047EHR	9'	740	15,370 / 30,735	4.5 / 9	10.9	47	8	14	AC-CE47-48-R	\$ 4,261.00
2063EHR	9'	1060	20,490 / 40,980	6 / 12	13.5	63	8	14	AC-CE63-48-R	4,995.00
2083EHR	9'	1470	30,735 / 61,470	9 / 18	21.7	83	8	14	AC-CE83-48-R	7,405.00
2000R Series: SURFACE MOUNT - ELECTRIC HEAT - 600/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2047EHR	9'	740	15,370 / 30,735	4.5 / 9	9.3	47	8	14	AC-CE47-60-R	\$ 4,261.00
2063EHR	9'	1060	20,490 / 40,980	6 / 12	12.8	63	8	14	AC-CE63-60-R	4,995.00
2083EHR	9'	1470	30,735 / 61,470	9 / 18	18.6	83	8	14	AC-CE83-60-R	7,405.00
2000R Series: SURFACE MOUNT - HOT WATER HEAT - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2047WHR	9'	700	10,245 / 20490	3 / 6	0.5	47	8	14	AC-CW47-23-R	\$ 4,389.00
2063WHR	9'	1000	15,370 / 30,735	4.5 / 9	0.7	63	8	14	AC-CW63-23-R	5,233.00
2083WHR	9'	1400	20,490 / 40,980	6 / 12	1	83	8	14	AC-CW83-23-R	7,305.00
2500R		Max. Door	Curtain Heat Output			Dimensions (Inches)			Part Number	LIST PRICE
Model	Height	CFM	(Btuh)	kW	FLA	Length	Height	Depth		
2500R Series: SURFACE MOUNT - AMBIENT [NO HEAT] - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2547R	11' 6"	900	-	-	1.4	46.7	13.7	19.1	AC-HA47-23-R	\$ 5,093.00
2567R	11' 6"	1315	-	-	2	67.3	13.7	19.1	AC-HA67-23-R	6,892.00
2588R	11' 6"	1735	-	-	2.8	88	13.7	19.1	AC-HA88-23-R	8,446.00
2500R Series: SURFACE MOUNT - ELECTRIC HEAT - 208/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2547EHR	11' 6"	810	20,473 / 40,946	6 / 12	36	46.7	13.7	19.1	AC-HE47-20-R	\$ 6,659.00
2567EHR	11' 6"	1165	40,946 / 61,418	12 / 18	54	67.3	13.7	19.1	AC-HE67-20-R	8,993.00
2588EHR	11' 6"	1460	40,946 / 81,891	12 / 24	72	88	13.7	19.1	AC-HE88-20-R	11,025.00
2500R Series: SURFACE MOUNT - ELECTRIC HEAT - 480/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2547EHR	11' 6"	900	20,473 / 40,946	6 / 12	13.5	46.7	13.7	19.1	AC-HE47-48-R	\$ 6,659.00
2567EHR	11' 6"	1315	40,946 / 61,418	12 / 18	21.7	67.3	13.7	19.1	AC-HE67-48-R	8,993.00
2588EHR	11' 6"	1735	40,946 / 81,891	12 / 24	28.9	88	13.7	19.1	AC-HE88-48-R	11,025.00
2500R Series: SURFACE MOUNT - ELECTRIC HEAT - 600/3/60 : w/ WIRED CONTROL & DOOR SWITCH										
2547EHR	11' 6"	900	20,473 / 40,946	6 / 12	11.6	46.7	13.7	19.1	AC-HE47-60-R	\$ 6,659.00
2567EHR	11' 6"	1315	40,946 / 61,418	12 / 18	17.3	67.3	13.7	19.1	AC-HE67-60-R	8,993.00
2588EHR	11' 6"	1735	40,946 / 81,891	12 / 24	23.1	88	13.7	19.1	AC-HE88-60-R	11,025.00
2500R Series: SURFACE MOUNT - HOT WATER HEAT - 230/1/60 : w/ WIRED CONTROL & DOOR SWITCH										
2547WHR	11' 6"	900	20,473 / 40,946	6 / 12	1.4	46.7	13.7	19.1	AC-HW47-23-R	\$ 6,659.00
2567WHR	11' 6"	1315	30,709 / 61,418	9 / 18	2	67.3	13.7	19.1	AC-HW67-23-R	8,993.00
2588WHR	11' 6"	1735	40,946 / 81,891	12 / 24	2.8	88	13.7	19.1	AC-HW88-23-R	11,031.00



Typical accessories are listed below.

Other Accessories: next page

Transformers: page 11

Notes: IL 25 : NG Only; LP Discontinued

IL SERIES HIGH INTENSITY HEATERS

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

MODEL		CAPACITY	GAS	PART #	LIST PRICE
IL 25	NG ONLY	21,500 Btuh	NG ONLY	IL-0025-NG	\$ 741.00
IL 37	N or L	35,000 Btuh	NG	IL-0037-NG	773.00
			LP	IL-0037-LP	773.00
IL 50	N or L	50,000 Btuh	NG	IL-0050-NG	923.00
			LP	IL-0050-LP	923.00
IL 75	N or L	65,000 Btuh	NG	IL-0075-NG	1,079.00
			LP	IL-0075-LP	1,079.00
IL 100	N or L	100,000 Btuh	NG	IL-0100-NG	1,161.00
			LP	IL-0100-LP	1,161.00
IL 150	N or L	143,000 Btuh	NG	IL-0150-NG	1,996.00
			LP	IL-0150-LP	1,996.00
IL 200	N or L	200,000 Btuh	NG	IL-0200-NG	2,189.00
			LP	IL-0200-LP	2,189.00

IL Series Heaters require 24 volt connection

TYPICAL OPTIONAL ACCESSORIES FOR IL SERIES

Flexible Gas Connector 1/2" X 24" [up to 150,000 Btuh]

Flexible Gas Connector 3/4" x 36" - for ECO 52

#8 Jack Chain - 60 lb work load - box 50'

#2 Lion Chain - 115 lb work load - 200 ft roll

'S' Hooks - Package of 25

Safety Snap Hooks - 2"

Pressure Equalizer Venturi Cover [for drafty areas]

Note: IL 150 & 200 require two Venturi Covers



Package of 24
Package of 100

PART #	LIST PRICE
JL-0771-XX	\$ 53.00
JL-0771-YY	167.00
JL-0798-JC	97.00
JL-0800-XX	157.00
JL-0798-SH	37.00
JL-0800-SH	64.00
JL-0800-SH-B	197.00
JO-0368-XX	255.00

THERMOSTATS - For 24V Thermostat control requirements see 'Guidelines' page 11

Line Voltage [120V] Thermostat

Low Voltage [24V] Digital Thermostat °F & °C

[Requires Control Center JM-0300-AA below for multiple heaters]

TruTemp Set Back Infra-red Thermostat [24V]

[Requires Control Center JM-0300-AA below for multiple heaters]

Transformer/Relay [Required for 24V Control of Multiple Heaters]

JL-0772-XX	\$ 63.00
JS-0569-WR	106.00
JM-0150-XX	225.00
JM-0300-AA	167.00

MORE ACCESSORIES for IL SERIES HIGH INTENSITY HEATERS

Typical Accessories: previous page

Transformers: next page

TILE PROTECTING GRILLE: longer lead times for this accessory

[1/2" X 1/2" Bird Screen]

For: IL 25
IL 37
IL 50
IL 75
IL 100

PART #	LIST PRICE
JX-0249-XX	\$ 43.00
JX-0252-XX	79.00
JX-0253-XX	79.00
JX-0254-XX	84.00
JX-0255-XX	86.00

REFLECTOR EXTENSIONS - Single Side - Order Quantity 2 if both sides require extension

For: IL 25 Single Side
IL 37 Single Side
IL 50 Single Side
IL 75 Single Side
IL 100 Single Side

JX-0260-SG-P	\$ 68.00
JX-0236-SG-P	103.00
JX-0237-SG-P	108.00
JX-0238-SG-P	138.00
JX-0239-SG-P	206.00

Field Conversion for Fuel Gas: 'IL' Series High Intensity Heaters

IL 37
IL 50
IL 75
IL 100
IL 150
IL 200

NG to LP	LP to NG	
JX-0253-XA	JX-0252-XA	\$ 77.00
JX-0253-XB	JX-0252-XB	77.00
JX-0253-XC	JX-0252-XC	77.00
JX-0253-XD	JX-0252-XD	77.00
JX-0253-XC-A	JX-0252-XC-A	93.00
JX-0253-XD-A	JX-0252-XD-A	93.00

Gas Conversion Kits: Outdoor High Intensity IO-100 & IO-210 Series

		PART #	LIST PRICE
IO-100 Series NG to LP	CONV. KIT - NG TO LP - IO-135	JX-0253-XH	\$ 97.00
	CONV. KIT - NG TO LP - IO-150	JX-0253-XJ	98.00
IO-210 Series NG to LP	CONV. KIT - NG TO LP - IO-212	JX-0253-XE	77.00
	CONV. KIT - NG TO LP - IO-213	JX-0253-XF	77.00
IO-100 Series LP to NG	CONV. KIT - LP TO NG - IO-135	JX-0252-XH	97.00
	CONV. KIT - LP TO NG - IO-150	JX-0252-XJ	96.00
IO-210 Series LP to NG	CONV. KIT - LP TO NG - IO-212	JX-0252-XE	77.00
	CONV. KIT - LP TO NG - IO-213	JX-0252-XF	77.00

Models IO-152 & IO-252 are NG Only, and Not Convertible to LP

24V TRANSFORMERS for IL HIGH INTENSITY HEATERS

<u>QTY HEATERS*</u>	<u>REQUIRED SIZE</u>		<u>PART #</u>	<u>LIST PRICE</u>
1 heater	40 VA Transformer	4"x4" Electrical Box Mount	JL-0776-XX	\$ 113.00
Up to 4	100 VA Transformer	Closed Type	JL-0778-XX	209.00
5 to 6	150 VA Transformer	Closed Type	JL-0779-XX	252.00
7 to 9	200 VA Transformer	Closed Type	JL-0780-XX	288.00
10 to 12	250 VA Transformer	Closed Type	JL-0781-XX	314.00
13 to 16	350 VA Transformer	Closed Type	JL-0781-AA	367.00

* Except patio heaters - see below for sizing guidelines

See **INSTALLATION MANUAL** to determine gauge of wire to be used. [minimum 16 gauge].

24V TRANSFORMER SIZING:

For Space Heating & Process Applications

- 1] Transformer mounted at heater:
 - ☐ Use 40 VA 24V Transformer for each single 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 Outdoor IO-100 & IO-210 Series

- On a single heater use one 40 VA 24V transformer.
- On a zone or Patio Panel with multiple heaters, use transformer sized at 40 VA per first heater and 20 VA per each additional heater.

Zone Sizing Guidelines: The number of heaters in a zone is determined by any of the following parameters:

- 1) The capacity of the exhaust fan that can capably service the zone
- 2) Proximity of heaters to fan: horizontal distance between any heater and fan = maximum 6 times mounting height
- 3) Quantity of heaters required to satisfy conditions at the project site

HIGH INTENSITY HEATER 24V CONTROL OPTION GUIDELINES

for: TruTemp / 24V Thermostat ... Page 33

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-AA] + 1 Transformer
ORDER for EACH ZONE - One JM-0300-AA 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 sized at 40VA for 1st heater + 20VA for each additional heater in the zone is required to power the 24V heaters.

General Information: All Tube Heater Models

Ordering Tube Heater Kits

A tube heater can be ordered as a Complete Kit System, or by ordering the individual Burner and Tube Kits that comprise the system.

- Refer to the Complete Kit Systems listed for each model on the pages below, along with List Pricing for each system.
- The Burner and Tube Kit part numbers that comprise any Complete System are listed to the right of the Complete Systems.
- Part Numbers and Pricing for the Burner and Tube Kits are listed on the page following the Complete System listing

Fuel Type and Field Conversion:

1. Burner input capacities: 40,000, 45,000, 60,000, 80,000, 130,000 & 150,000 Btuh:

- All burners up to 150,000 Btuh [excluding 110,000] are produced and stocked for natural gas fuel.
- A Field Conversion Kit is required for conversion of burner to LP gas. See page 61 for a listing of Conversion Kits.

2. Burner input capacities: 110,000, 175,000 & 200,000 Btuh:

- Field Conversion Kits available for 110,000, 175,000 & 200,000 burners, but conversion is more substantial than lower inputs.
- Order 110,000, 175,000 and 200,000 Tube Heater Systems for the appropriate fuel. See model price pages below for details

Power Supply, and Line Voltage or 24 Vac Thermostat Control?

- All tube heater models have a 120Vac combustion air blower motor hence require 120Vac supplied to the burner.
- A step-down transformer [120/24Vac] provides 24Vac to ignition and gas controls and to a 24 Vac thermostat [field supplied].
- All tube heater models are factory ready for either a Line Voltage or 24Vac Thermostat.
- To control multiple tube heaters with one 24Vac Thermostat:
 - One heater is controlled by a 24Vac Thermostat
 - EACH additional heater requires a relay switch to close the thermostat terminals in the burner [see next page]

Connecting a Tube Heater to the Gas Supply

- Tube heaters require a flexible gas connector for connection to the gas supply.
- All tube heater burners are supplied with a flexible gas connector for connection to the gas supply.
- All flexible gas connectors supplied are approved for indoor or outdoor use.

Note: Minimum length for tube heater flexible connector is 24 inches.

Refer to table below for correct sized connector that is supplied and must be installed.

Gas connector is shipped in the Burner Kit carton

Flexible Gas Connector	
Input Btuh	Required ID x Length
40,000 to 125,000	1/2" x 24"
150,000 to 200,000	3/4" x 36"

Flexible Gas Connectors:

Stainless Steel Flex - Replacement Parts

FLEXIBLE Connector 1/2" x 24" - for 40,000 up to 125,000 Btuh

JL-0771-XX \$ 53.00

FLEXIBLE Connector 3/4" x 36" - for 150,000 up to 200,000 Btuh

JL-0771-YY \$ 167.00

High Altitude Application:

- Above 4,500 ft: REDUCE TOTAL SYSTEM LENGTH BY 20 FT [Total System = Air Duct + Tube + Vent].
- Refer to product manual for model details and orifice chart.

24 VOLT OPTION GUIDELINES

TruTemp / 24V Thermostat / Patio Panel / Remote Control of Infrasave Tube Heaters

Infrasave TUBE HEATERS

120Vac supply is ALWAYS required to the burner: Powers the blower and the transformer in each burner assembly regardless of the thermostat or controller voltage.

IMPORTANT: Models IQ, ITB, ITBU

The Fenwal ignition control has a post-purge feature that purges the system when call-for-heat ends

For the post-purge feature to function, a 24V thermostat or control signal must be used

Line voltage control will disconnect power from the ignition control and disable the post-purge feature

TUBE HEATER 24V CONTROL OPTIONS:

Single TUBE HEATER per Single TruTemp / 24V THERMOSTAT / patioPanel switch* / Remote Control

- Tube heaters are factory ready for 24Vac thermostat control
- 24V power to the thermostat is supplied by the transformer within the heater
- A 24V/120V relay switch [powers blower] is onboard the Fenwal Ignition Control, or is factory installed in the burner of Outdoor models that use a potted control

***ORDER - Any 24 volt thermostat or TruTemp supplied by Infrasave to control a single tube heater**

- **patioPanel:** 24V power to the panel switch is supplied from the transformer within the burner
ONLY ONE tube heater can be controlled by each patioPanel switch
- **Remote Control:** Each Burner is ready for installation of Remote Control Receiver Kit: JP-1236-RK
- Refer to patio heater section for information on Remote Control options

Multiple TUBE HEATERS per Single TruTemp / 24V THERMOSTAT / patioPanel switch* / Remote Control

MULTIPLE HEATERS IN A COMMON ZONE: Requires Accessory: Relay Switch JS-0568-CC

- 120V supply is ALWAYS required to each burner to power the blower and transformer
- The first burner is controlled by connection of a 24V thermostat [or TruTemp, or other 24V power source]
- 24V power is provided to the thermostat by the transformer in the first burner
- Each additional burner in the zone requires an individual Relay Switch JS-0568-CC
- The Relay Switch is field mounted on or in the burner housing
- For outdoor application the Relay Switch must be mounted in a field supplied NEMA 4 enclosure, or inside the burner housing

ORDER: 1ST Heater: 24V Thermostat [OR TruTemp] + ONE Relay Switch JS-0568-CC FOR EACH additional heater

RESIDENTIAL GARAGE / SHOP HEATER

Compact Model P40-R

FACTORY ASSEMBLED SYSTEM INSTALLS DIRECTLY FROM CARTON



Four suspension points on top
See illustration below

Compact 10 ft design
Includes: 24 volt thermostat
Hanging Chain
Suspension Hooks

Model P40-R

BURNER: 40,000 Btuh Natural Gas [optional conversion kit for LPG], 120V 3-Pronged Plug, 24V Thermostat with 20 ft of 18/2 wire;

TUBE / REFLECTOR SYSTEM: Corrosion resistant aluminized steel construction, 4 inch diameter U-tube provides 17 ft of heat exchange tube in compact 10 ft length; includes 4 ft Hanging Chain and four safety snap hooks.

MODEL	CAPACITY	FUEL	LENGTH	PART #	LIST PRICE
P40-R	40,000 Btuh	NG	10'	PU-R040-BN	\$ 2,187.00

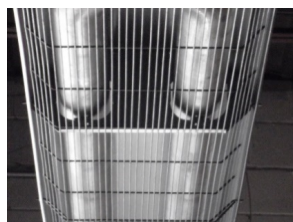
FIELD CONVERSION KIT TO LPG - P40-R BURNER [Burners are produced in natural gas only]

	INPUT	PART #	LIST PRICE*
Field Conversion Kit NG to LP	40,000 Btuh	JS-0555-XA	\$ 40.00

OPTIONAL ACCESSORIES:

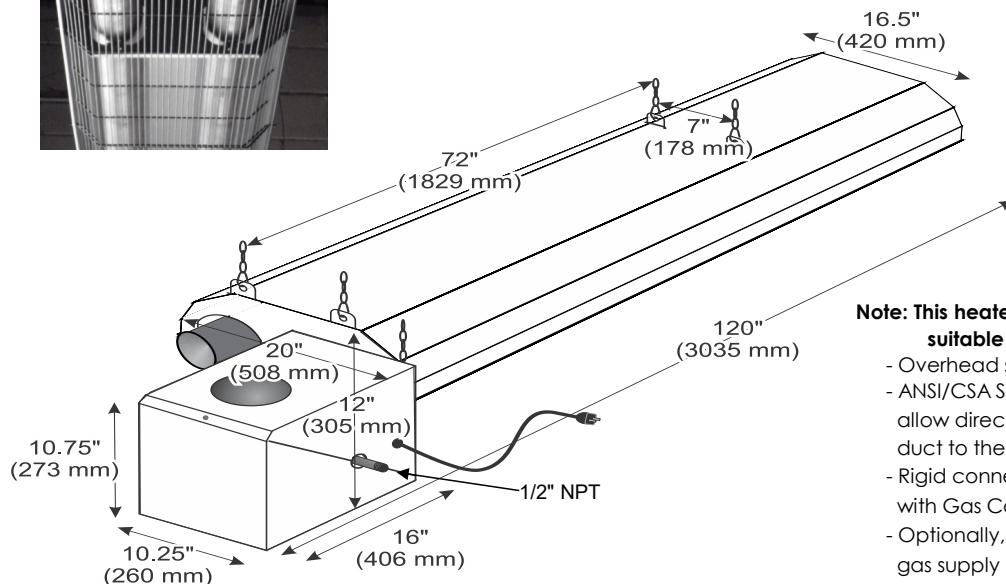
4" Horizontal Wall Flue Terminal	JA-0528-XX	\$ 41.00
Flexible Gas Connector 1/2" x 24"	JL-0771-XX	53.00

Protective Guard Screen



- Zinc coated protection
- Required for installations between 6 to 8 ft above floor
- Two piece set, field installed, clips in to pre-made holes in reflector

JS-0502-UR-GK 278.00



Note: This heater is approved as a Vented Room Heater suitable for use in residential garage/shop

- Overhead suspended type
- ANSI/CSA Standards and Code requirements do not allow direct connection of an outside combustion air duct to the heater
- Rigid connection to the gas supply is in compliance with Gas Code requirements
- Optionally, an installer may choose to connect to the gas supply using a metallic flexible gas connector
- Confirm gas connection requirements with local authority

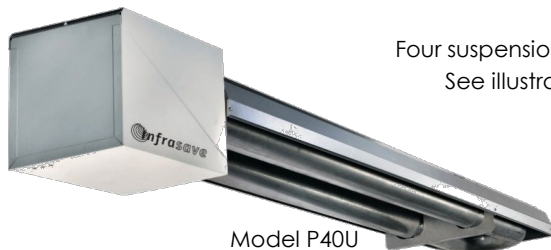
Indoor / Outdoor Commercial / Industrial Tube Heaters

P40U-I, P40U-IP, P40U-IW

P40U-I Complements Premier IQ Series and Builder ITB Series Models

- Compact low input factory assembled heater for commercial / industrial applications

P40U-IP & P40U-IW round out the outdoor and harsh environment models IWP & IW



Four suspension points on top
See illustration below

Compact 10 ft total length design
Factory assembled burner to tube
Installs directly from carton

For outdoor use:

- P40U-IP Powder Coated Housing
- P40U-IW Stainless Steel Housing

BURNER: 40,000 Btuh Natural Gas [optional conversion kit for LPG], Flexible Gas Connector, 120V 3-Pronged Plug,

4" dia. Combustion Air Collar.

P40U-I: Indoor; Painted burner housing with hinged lower panel and single fastener access for servicing

P40U-IP, -IW: Outdoor weather resistant burner housing for outdoor and harsh environments

TUBE / REFLECTOR SYSTEM: Corrosion resistant aluminized steel construction, 4 inch diameter U-tube provides 17 ft of heat exchange tube in compact 10 ft length; includes 4 ft Lion Chain and four safety snap hooks.

COMPLETE SYSTEMS:

MODEL	CAPACITY	FUEL	TOTAL LENGTH	Burner Housing	PART #	LIST PRICE
P40U-I	40,000 Btuh	NG	10'	Painted; Drop jaw access for service	PU-OJ40-AN	\$ 2,262.00
P40U-IP	40,000 Btuh	NG	10'-3"	Powder Coated weather resistant	PU-PJ40-AN	2,851.00
P40U-IW	40,000 Btuh	NG	10'-3"	Stainless Steel weather resistant	PU-WJ40-AN	3,195.00

FIELD CONVERSION KIT FOR P40U-I [-IP, -IW] SERIES: Burners are produced in Natural Gas only

Field Conversion Kit NG to LP	40,000 Btuh	JS-0555-XA	\$ 40.00
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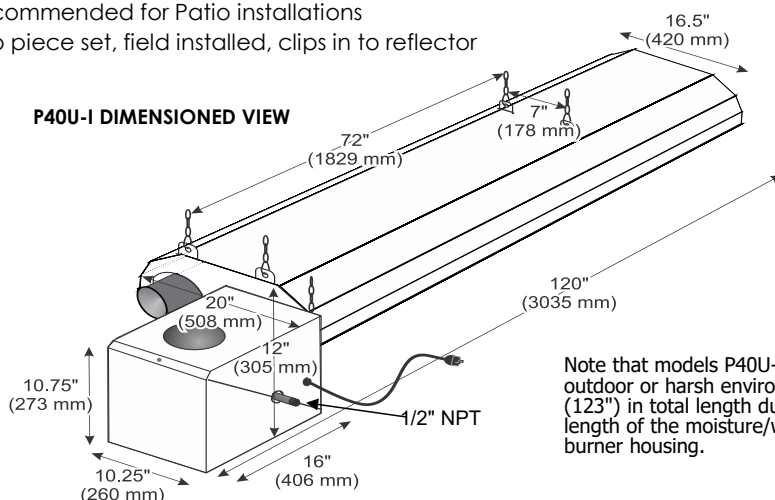
OPTIONAL ACCESSORIES:

4" Horizontal Wall Flue Terminal	JA-0528-XX	41.00
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Protective Guard Screen



- Required for installations between 6 to 8 ft above floor JS-0502-UR-GK 278.00
- Zinc coated weather protection
- Recommended for Patio installations
- Two piece set, field installed, clips in to reflector



Note that models P40U-IP and P40U-IW for outdoor or harsh environment are 10'-3" (123") in total length due to the longer length of the moisture/weather resistant burner housing.

superTube®
**Infrasave superTube®
Single-Stage**

IST FEATURES:

- High-efficiency ECM blower
- 24V or Line Voltage Thermostat Ready
- Optimized Reflector
- Power Cord with Plug
- Swing-down Cabinet Service Access
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

COMPLETE TUBE HEATER SYSTEMS:

ORDER BY KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE		SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
		LENGTH	FUEL	Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
IST-SB05-20-AN	50,000	20'	NG	JN-BS05-AN	TD-P2AH-ST	-	\$ 2,294.00
IST-SB05-30-AN		30'		JN-BS05-AN	TD-P3AH-ST	-	\$ 2,604.00
IST-SB05-40-AN		40'		JN-BS05-AN	TD-P4AH-ST	-	\$ 2,912.00
IST-SB06-20-AN	65,000	20'	NG	JN-BS06-AN	TD-P2AH-ST	-	\$ 2,294.00
IST-SB06-30-AN		30'		JN-BS06-AN	TD-P3AH-ST	-	\$ 2,604.00
IST-SB06-40-AN		40'		JN-BS06-AN	TD-P4AH-ST	-	\$ 2,912.00
IST-SB08-20-AN	80,000	20'	NG	JN-BS08-AN	TD-P2AH-ST	-	\$ 2,324.00
IST-SB08-30-AN		30'		JN-BS08-AN	TD-P3AH-ST	-	\$ 2,632.00
IST-SB08-40-AN		40'		JN-BS08-AN	TD-P4AH-ST	-	\$ 2,942.00
IST-SB11-30-AN	115,000	30'	NG	JN-BS11-AN	TD-P3AH-ST	-	\$ 2,632.00
IST-SB11-40-AN		40'		JN-BS11-AN	TD-P4AH-ST	-	\$ 2,942.00
IST-SB11-50-AN		50'		JN-BS11-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,423.00
IST-SB13-30-AN	130,000	30'	NG	JN-BS13-AN	TD-P3AH-ST	-	\$ 2,678.00
IST-SB13-40-AN		40'		JN-BS13-AN	TD-P4AH-ST	-	\$ 2,988.00
IST-SB13-50-AN		50'		JN-BS13-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,468.00
IST-SB15-40-AN	155,000	40'	NG	JN-BS15-AN	TD-P4AH-ST	-	\$ 2,988.00
IST-SB15-50-AN		50'		JN-BS15-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,468.00
IST-SB15-60-AN		60'		JN-BS15-AN	TD-P3AH-ST	TD-S3HH-ST	\$ 3,777.00
IST-SB18-50-AN	180,000	50'	NG	JN-BS18-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,548.00
IST-SB18-60-AN		60'		JN-BS18-AN	TD-P3AH-ST	TD-S3HH-ST	\$ 3,858.00
IST-SB18-70-AN		70'		JN-BS18-AN	TD-P3AH-ST	TD-S4HH-ST	\$ 4,166.00
IST-SB20-50-AN	205,000	50'	NG	JN-BS20-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,548.00
IST-SB20-60-AN		60'		JN-BS20-AN	TD-P3AH-ST	TD-S3HH-ST	\$ 3,858.00
IST-SB20-70-AN		70'		JN-BS20-AN	TD-P3AH-ST	TD-S4HH-ST	\$ 4,166.00
IST-SB22-60-AN	225,000	60'	NG	JN-BS22-AN	TD-P4SS-STM	TD-S2HH-ST	\$ 4,303.00
IST-SB22-70-AN		70'		JN-BS22-AN	TD-P4SS-STM	TD-S3HH-ST	\$ 4,613.00
IST-SB22-80-AN		80'		JN-BS22-AN	TD-P4SS-STM	TD-S4HH-ST	\$ 4,921.00
IST-SB25-60-AN	250,000	60'	NG	JN-BS25-AN	TD-P4SS-STM	TD-S2HH-ST	\$ 4,303.00
IST-SB25-70-AN		70'		JN-BS25-AN	TD-P4SS-STM	TD-S3HH-ST	\$ 4,613.00
IST-SB25-80-AN		80'		JN-BS25-AN	TD-P4SS-STM	TD-S4HH-ST	\$ 4,921.00

Tube Heater System ships in 2 or 3 cartons with Burner Kit + required Tube Kit[s] for heater length

Propane models are available. Please see page 61 for the conversion kit numbers

superTube®
**Infrasave superTube®
Two-Stage**

IST FEATURES:

- High-efficiency ECM blower
- 24V or Line Voltage Thermostat Ready
- Optimized Reflector
- Power Cord with Plug
- Swing-down Cabinet Service Access
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

COMPLETE TUBE HEATER SYSTEMS:

ORDER BY KIT MODEL #	CAPACITY		TUBE LENGTH	FUEL	SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
	INPUT [Btuh]				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
	Max	Min						
IST-TB05-20-AN	50,000	35,000	20'	NG	JN-BT05-AN	TD-P2AH-ST	-	\$ 2,553.00
IST-TB05-30-AN			30'		JN-BT05-AN	TD-P3AH-ST	-	\$ 2,861.00
IST-TB06-20-AN	65,000	45,000	20'	NG	JN-BT06-AN	TD-P2AH-ST	-	\$ 2,553.00
IST-TB06-30-AN			30'		JN-BT06-AN	TD-P3AH-ST	-	\$ 2,861.00
IST-TB08-20-AN	80,000	55,000	20'	NG	JN-BT08-AN	TD-P2AH-ST	-	\$ 2,599.00
IST-TB08-30-AN			30'		JN-BT08-AN	TD-P3AH-ST	-	\$ 2,907.00
IST-TB11-30-AN	115,000	75,000	30'	NG	JN-BT11-AN	TD-P3AH-ST	-	\$ 2,907.00
IST-TB11-40-AN			40'		JN-BT11-AN	TD-P4AH-ST	-	\$ 3,217.00
IST-TB13-30-AN	130,000	80,000	30'	NG	JN-BT13-AN	TD-P3AH-ST	-	\$ 2,953.00
IST-TB13-40-AN			40'		JN-BT13-AN	TD-P4AH-ST	-	\$ 3,262.00
IST-TB15-40-AN	155,000	90,000	40'	NG	JN-BT15-AN	TD-P4AH-ST	-	\$ 3,262.00
IST-TB15-50-AN			50'		JN-BT15-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,743.00
IST-TB18-50-AN	180,000	100,000	50'	NG	JN-BT18-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,812.00
IST-TB18-60-AN			60'		JN-BT18-AN	TD-P3AH-ST	TD-S3HH-ST	\$ 4,120.00
IST-TB20-50-AN	205,000	120,000	50'	NG	JN-BT20-AN	TD-P3AH-ST	TD-S2HH-ST	\$ 3,812.00
IST-TB20-60-AN			60'		JN-BT20-AN	TD-P3AH-ST	TD-S3HH-ST	\$ 4,120.00
IST-TB22-60-AN	225,000	135,000	60'	NG	JN-BT22-AN	TD-P4SS-STM	TD-S2HH-ST	\$ 4,567.00
IST-TB22-70-AN			70'		JN-BT22-AN	TD-P4SS-STM	TD-S3HH-ST	\$ 4,876.00
IST-TB25-60-AN	250,000	150,000	60'	NG	JN-BT25-AN	TD-P4SS-STM	TD-S2HH-ST	\$ 4,567.00
IST-TB25-70-AN			70'		JN-BT25-AN	TD-P4SS-STM	TD-S3HH-ST	\$ 4,876.00

Tube Heater System ships in 2 or 3 cartons with Burner Kit + required Tube Kit[s] for heater length

Propane models are available. Please see page 61 for the conversion kit numbers

**SST-U FEATURES:**

- High-efficiency ECM blower
- 24V or Line Voltage Thermostat Ready
- Optimized Single Reflector
- Power Cord with Plug
- Swing-down Cabinet Service Access
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

Infrasave superTube® U-Tube Models

Single-reflector configuration

COMPLETE TUBE HEATER SYSTEMS:

ORDER BY	OPERATING	CAPACITY	TUBE	SYSTEM COMPONENT KITS [individual cartons]					
KIT MODEL #	MODE	INPUT [Btu MAX	LENGTH	FUEL	Burner Kit #	Tube Kit 1 #	Tube Kit 2 #		LIST PRICE
IST-SU05-10-AN	Single-Stage	50,000	10'	NG	JN-BS05-AN	TU-P10AH-SST	-	\$	2,684.00
IST-SU06-10-AN	Single-Stage	65,000	10'	NG	JN-BS06-AN	TU-P10AH-SST	-	\$	2,684.00
IST-SU08-10-AN	Single-Stage	80,000	10'	NG	JN-BS08-AN	TU-P10AH-SST	-	\$	2,713.00
IST-SU11-15-AN	Single-Stage	115,000	15'	NG	JN-BS11-AN	TU-P15AH-SST	-	\$	2,850.00
IST-SU13-15-AN	Single-Stage	130,000	15'	NG	JN-BS13-AN	TU-P15AH-SST	-	\$	2,896.00
IST-SU15-20-AN	Single-Stage	155,000	20'	NG	JN-BS15-AN	TU-P20AH-SST	-	\$	3,354.00
IST-SU18-25-AN	Single-Stage	180,000	25'	NG	JN-BS18-AN	TU-P15AH-SST	TU-S10HH-SST	\$	3,662.00
IST-SU20-25-AN	Single-Stage	205,000	25'	NG	JN-BS20-AN	TU-P15AH-SST	TU-S10HH-SST	\$	3,662.00
IST-SU22-30-AN	Single-Stage	225,000	30'	NG	JN-BS22-AN	TU-P20SS-SST	TU-S10HH-SST	\$	4,601.00
IST-SU25-30-AN	Single-Stage	250,000	30'	NG	JN-BS25-AN	TU-P20SS-SST	TU-S10HH-SST	\$	4,601.00
IST-TU05-10-AN	Two-Stage	50,000	10'	NG	JN-BT05-AN	TU-P10AH-SST	-	\$	2,942.00
IST-TU06-10-AN	Two-Stage	65,000	10'	NG	JN-BT06-AN	TU-P10AH-SST	-	\$	2,942.00
IST-TU08-10-AN	Two-Stage	80,000	10'	NG	JN-BT08-AN	TU-P10AH-SST	-	\$	2,988.00
IST-TU11-15-AN	Two-Stage	115,000	15'	NG	JN-BT11-AN	TU-P15AH-SST	-	\$	3,125.00
IST-TU13-15-AN	Two-Stage	130,000	15'	NG	JN-BT13-AN	TU-P15AH-SST	-	\$	3,171.00
IST-TU15-20-AN	Two-Stage	155,000	20'	NG	JN-BT15-AN	TU-P20AH-SST	-	\$	3,629.00
IST-TU18-25-AN	Two-Stage	180,000	25'	NG	JN-BT18-AN	TU-P15AH-SST	TU-S10HH-SST	\$	3,926.00
IST-TU20-25-AN	Two-Stage	205,000	25'	NG	JN-BT20-AN	TU-P15AH-SST	TU-S10HH-SST	\$	3,926.00
IST-TU22-30-AN	Two-Stage	225,000	30'	NG	JN-BT22-AN	TU-P20SS-SST	TU-S10HH-SST	\$	4,865.00
IST-TU25-30-AN	Two-Stage	250,000	30'	NG	JN-BT25-AN	TU-P20SS-SST	TU-S10HH-SST	\$	4,865.00

TUBE KITS U-TUBE

Tube Kits include Swaged Tubes, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

KIT ITEM #	TUBE KIT TYPE	FIRST TUBE	SECOND TUBE	Notes	LIST PRICE
TU-P10AH-SST	Primary	Aluminized Steel	Painted Steel	IST-U 10' Primary Kit	\$ 1,282.00
TU-P15AH-SST	Primary	Aluminized Steel	Painted Steel	IST-U 15' Primary Kit	\$ 1,419.00
TU-P20AH-SST	Primary	Aluminized Steel	Painted Steel	IST-U 20' Primary Kit	\$ 1,877.00
TU-P20SS-SST	Primary	Stainless Steel	Painted Steel	IST-U 20' Primary Kit, Stainless-Steel	\$ 2,289.00
TU-S10HH-SST	Secondary	Painted Steel	Painted Steel	IST-U 10' Secondary Kit	\$ 687.00

ORDERING TUBE HEATERS:

- ✓ Order by Complete System: Order Kit Model # on previous pages ... or
- ✓ Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

BURNER KITS

<u>MODEL #</u>	<u>OPERATING MODE</u>	<u>INPUT [Btuh]</u>		<u>TUBE LENGTH</u>	<u>FUEL</u>	<u>LIST PRICE</u>
		Max	Min			
JN-BS05-AN	Single-Stage	50,000	-	20', 30', 40'	NG	\$ 1,402.00
JN-BS06-AN	Single-Stage	65,000	-	20', 30', 40'	NG	\$ 1,402.00
JN-BS08-AN	Single-Stage	80,000	-	20', 30', 40'	NG	\$ 1,431.00
JN-BS11-AN	Single-Stage	115,000	-	30', 40', 50'	NG	\$ 1,431.00
JN-BS13-AN	Single-Stage	130,000	-	30', 40', 50'	NG	\$ 1,477.00
JN-BS15-AN	Single-Stage	155,000	-	40', 50', 60'	NG	\$ 1,477.00
JN-BS18-AN	Single-Stage	180,000	-	50', 60', 70'	NG	\$ 1,557.00
JN-BS20-AN	Single-Stage	205,000	-	50', 60', 70'	NG	\$ 1,557.00
JN-BS22-AN	Single-Stage	225,000	-	60', 70', 80'	NG	\$ 1,625.00
JN-BS25-AN	Single-Stage	250,000	-	60', 70', 80'	NG	\$ 1,625.00
JN-BT05-AN	Two-Stage	50,000	35,000	20', 30'	NG	\$ 1,660.00
JN-BT06-AN	Two-Stage	65,000	45,000	20', 30'	NG	\$ 1,660.00
JN-BT08-AN	Two-Stage	80,000	50,000	20', 30'	NG	\$ 1,706.00
JN-BT11-AN	Two-Stage	115,000	75,000	30', 40'	NG	\$ 1,706.00
JN-BT13-AN	Two-Stage	130,000	80,000	30', 40'	NG	\$ 1,752.00
JN-BT15-AN	Two-Stage	155,000	90,000	40', 50'	NG	\$ 1,752.00
JN-BT18-AN	Two-Stage	180,000	100,000	50', 60'	NG	\$ 1,820.00
JN-BT20-AN	Two-Stage	205,000	120,000	50', 60'	NG	\$ 1,820.00
JN-BT22-AN	Two-Stage	225,000	135,000	60', 70'	NG	\$ 1,889.00
JN-BT25-AN	Two-Stage	250,000	150,000	60', 70'	NG	\$ 1,889.00

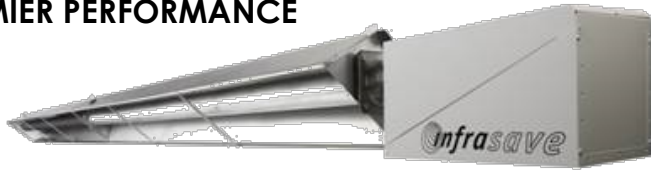
TUBE KITS

Tube Kits include Swaged Tubes, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

<u>KIT ITEM #</u>	<u>TUBE KIT TYPE</u>	<u>FIRST TUBE</u>	<u>SECOND TUBE</u>	<u>Notes</u>	<u>LIST PRICE</u>
TD-P2AH-ST	Primary	Aluminized Steel	Painted Steel	IST 20' Primary Kit	\$ 893.00
TD-P3AH-ST	Primary	Aluminized Steel	Painted Steel	IST 30' Primary Kit	\$ 1,202.00
TD-P4AH-ST	Primary	Aluminized Steel	Painted Steel	IST 40' Primary Kit	\$ 1,511.00
TD-P4SS-STM	Primary	Stainless Steel	Stainless Steel	IST 40' Primary Kit - 225 & 250 MBH Models	\$ 1,650.00
TD-S1HH-ST	Secondary	Painted Steel	Painted Steel	IST 10' Secondary Kit	\$ 516.00
TD-S2HH-ST	Secondary	Painted Steel	Painted Steel	IST 20' Secondary Kit	\$ 790.00
TD-S3HH-ST	Secondary	Painted Steel	Painted Steel	IST 30' Secondary Kit	\$ 1,099.00
TD-S4HH-ST	Secondary	Painted Steel	Painted Steel	IST 40' Secondary Kit	\$ 1,408.00

IQ SERIES TUBE HEATERS

PREMIER PERFORMANCE



Straight Tube - emissive coated

Plate hangers require 9'-8" o.c. positioning
Suspend with chain, cable, or threaded rod

IQ SERIES FEATURES:

- 24V or Line Voltage Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened Combustion Air Collar - 4"
- Swing-down Cabinet Service Access
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Emissive Coated Radiant Tubes
- Factory Mounted Igniter
- Flexible Gas Connector included

Supension points: 2 last tube + 1 other tubes; 50 ft heater has 6 suspension points

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 30 to 33

TO ORDER: Use the SYSTEM KIT MODEL # or INDIVIDUAL BURNER & TUBE COMPONENT KITS

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
PU-0J40-AN	40,000	10'U	NG*				\$ 2,262.00
IQ-45-20-AN	45,000	20'	NG*	JJ-S045-AN	TS-1420-JZ	-	2,260.00
IQ-60-20-AN	60,000	20'	NG*	JJ-S060-AN	TS-1420-JZ	-	2,260.00
IQ-60-30-AN		30'		JJ-S060-AN	TS-1430-JZ	-	2,569.00
IQ-80-20-AN	80,000	20'	NG*	JJ-S080-AN	TS-1420-JZ	-	2,260.00
IQ-80-30-AN		30'		JJ-S080-AN	TS-1430-JZ	-	2,569.00
IQ-80-40-AN		40'		JJ-S080-AN	TS-1040-JZ	-	2,881.00
IQ-100-20-AN	100,000	20'	NG Only	JJ-S100-AN	TS-1020-JZ	-	2,408.00
IQ-110-30-AL	110,000	30'	LP **	JJ-S110-AL	TS-1430-JZ	-	2,569.00
IQ-110-30-AN		30'	NG*	JJ-S110-AN	TS-1430-JZ	-	2,569.00
IQ-110-40-AL		40'	LP **	JJ-S110-AL	TS-1040-JZ	-	2,881.00
IQ-110-40-AN		40'	NG*	JJ-S110-AN	TS-1040-JZ	-	2,881.00
IQ-110-50-AL		50'	LP **	JJ-S110-AL	TS-F030-JZ	TS-0020-JZ	3,325.00
IQ-110-50-AN		50'	NG*	JJ-S110-AN	TS-F030-JZ	TS-0020-JZ	3,325.00
IQ-130-30-AN	125,000	30'	NG ONLY	JJ-S130-AN	TS-1430-JZ	-	2,569.00
IQ-130-40-AN		40'	NG*	JJ-S130-AN	TS-1040-JZ	-	2,881.00
IQ-130-50-AN		50'		JJ-S130-AN	TS-F030-JZ	TS-0020-JZ	3,325.00
IQ-155-40-AN	150,000	40'	NG*	JJ-S155-AN	TS-1040-JZ	-	2,983.00
IQ-155-50-AN		50'		JJ-S155-AN	TS-F030-JZ	TS-0020-JZ	3,428.00
IQ-155-60-AN		60'		JJ-S155-AN	TS-F030-JZ	TS-0030-JZ	3,738.00
IQ-175-50-AL	175,000	50'	LP **	JJ-S175-AL	TS-1030-JZ	TS-0020-JZ	3,611.00
IQ-175-50-AN		50'	NG*	JJ-S175-AN	TS-1030-JZ	TS-0020-JZ	3,611.00
IQ-175-60-AL		60'	LP **	JJ-S175-AL	TS-1030-JZ	TS-0030-JZ	3,922.00
IQ-175-60-AN		60'	NG*	JJ-S175-AN	TS-1030-JZ	TS-0030-JZ	3,922.00
IQ-175-70-AN		70'	NG Only	JJ-S175-AN	TS-1030-JZ	TS-0040-JZ	4,230.00
IQ-200-50-AN	200,000	50'	NG Only	JJ-S200-AN	TS-1030-JZ	TS-0020-JZ	3,611.00
IQ-200-60-AL		60'	LP **	JJ-S200-AL	TS-1030-JZ	TS-0030-JZ	3,922.00
IQ-200-60-AN		60'	NG*	JJ-S200-AN	TS-1030-JZ	TS-0030-JZ	3,922.00
IQ-200-70-AL		70'	LP **	JJ-S200-AL	TS-1030-JZ	TS-0040-JZ	4,230.00
IQ-200-70-AN		70'	NG*	JJ-S200-AN	TS-1030-JZ	TS-0040-JZ	4,230.00

Tube Heater System ships in 2 or 3 cartons with Burner Kit + required Tube Kit[s] for heater length

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

Burner Kits: IQ Series - Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-S045-AN	\$ 1,360.00
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-S060-AN	1,360.00
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-S080-AN	1,360.00
100,000 Btuh	20' special	N.G. ONLY	1/2" x 24"	JJ-S100-AN	1,360.00
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-S110-AN	1,360.00
110,000 Btuh LP **	30', 40', 50'	LP **	1/2" x 24"	JJ-S110-AL	1,360.00
125,000 Btuh	30'	30 ft = N.G. ONLY	1/2" x 24"	JJ-S130-AN	1,360.00
125,000 Btuh	40', 50'	N.G.* [40' & 50' for NG or LP]	1/2" x 24"	JJ-S130-AN	1,360.00
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-S155-AN	1,464.00
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-S175-AN	1,507.00
175,000 Btuh LP **	50', 60'	L.P.** [70' not available for LP]	3/4" X 36"	JJ-S175-AL	1,507.00
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-S200-AN	1,507.00
200,000 Btuh LP **	LP: 60', 70'	L.P.** [50' not available for LP]	3/4" X 36"	JJ-S200-AL	1,507.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Tube Kits: IQ Series - Can be ordered individually

Tube Kits include Swaged Tubes, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

<u>Stand-Alone Tube Kits [do not require any additional Tube Kit]</u>		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45/60/80,000	Flanged aluminized tube + 1 emissive coated steel tube: Turbulators 4 ft + 8 ft	TS-1420-JZ	\$ 900.00
20': 100,000 ONLY	Flanged aluminized tube + 1 emissive coated steel tube: Turbulator Special 8 ft	TS-1020-JZ	1,046.00
30': 60/80/110/125,000	Flanged aluminized tube + 1 aluminized tube + 1 emissive coated steel tube: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TS-1430-JZ	1,211.00
40': 80/110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 2 emissive coated steel tubes: Turbulators 2 ft + 10 ft	TS-1040-JZ	1,519.00
Primary Tube Kits [require a Secondary Kit that assembles to create 50', 60' & 70' heaters]			
30': 110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 1 emissive coated steel tube Turbulator 2 ft	TS-F030-JZ	1,194.00
30': 175/200,000	Flanged stainless steel tube + 1 aluminized tube + 1 emissive coated steel tube: Turbulators 4 ft + 6 ft [4 ft turbulator removed in field for 200,000 x 60 ft & 70 ft]	TS-1030-JZ	1,334.00
Secondary Tube Kits [needed with above Primary Kits to make 50', 60' & 70' heaters]			
20'	Two emissive coated steel tubes [makes 50' heater with either 30' primary]	TS-0020-JZ	770.00
30'	Three emissive coated steel tubes [makes 60' heater with either 30' primary]	TS-0030-JZ	1,079.00
40'	Four emissive coated steel tubes [makes 70' heater with 30' primary TS-1030-JZ]	TS-0040-JZ	1,388.00
10'	One emissive coated steel tube, reflector, hanger, reflector braces, coupler Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.	TS-1010-JZ	508.00



ITB TUBE HEATERS

BUILDER MARKET SERIES

Single Straight Tube - No emissive coat on tubes

Wire hangers allow flexible positioning along system

Suspend with chain, cable, or threaded rod; Suspension points: 2 per tube; e.g.: 40 ft heater has 8 suspension points

BUILDER MODEL ITB FEATURES:

- 24V or Line Voltage Thermostat Ready
- Birdscreened Combustion Air Collar - 4"
- Swing-down Cabinet Service Access
- Whisper Quiet Ceramic Burner
- End Capped Reflectors
- Flexible Gas Connector included

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 30 to 33

TO ORDER: Use the SYSTEM KIT MODEL # or INDIVIDUAL BURNER & TUBE COMPONENT KITS

SYSTEM KIT MODEL #	CAPACITY INPUT [Btu/h]	TUBE LENGTH	FUEL	COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
PU-0J40-AN	40,000	10'U	NG*				\$ 2,262.00
ITB-45-20-AN	45,000	20'	NG*	JJ-E045-BN	TM-1420-SX	-	1,915.00
ITB-60-20-AN	60,000	20'	NG*	JJ-E060-BN	TM-1420-SX	-	1,915.00
ITB-60-30-AN		30'	NG*	JJ-E060-BN	TM-1430-SX	-	2,130.00
ITB-80-20-AN	80,000	20'	NG*	JJ-E080-BN	TM-1420-SX	-	1,915.00
ITB-80-30-AN		30'	NG*	JJ-E080-BN	TM-1430-SX	-	2,130.00
ITB-80-40-AN		40'	NG*	JJ-E080-BN	TM-1040-SX	-	2,344.00
ITB-100-20-AN	100,000	20'	NG Only	JJ-E100-BN	TM-1020-SX	-	2,130.00
ITB-110-30-AL	110,000	30'	LP **	JJ-E110-BL	TM-1430-SX	-	2,130.00
ITB-110-30-AN		30'	NG*	JJ-E110-BN	TM-1430-SX	-	2,130.00
ITB-110-40-AL		40'	LP **	JJ-E110-BL	TM-1040-SX	-	2,344.00
ITB-110-40-AN		40'	NG*	JJ-E110-BN	TM-1040-SX	-	2,344.00
ITB-110-50-AL		50'	LP **	JJ-E110-BL	TM-F030-SX	TM-0020-SX	2,726.00
ITB-110-50-AN		50'	NG	JJ-E110-BN	TM-F030-SX	TM-0020-SX	2,726.00
ITB-130-30-AN	125,000	30'	NG Only	JJ-E130-BN	TM-1430-SX	-	2,130.00
ITB-130-40-AN		40'	NG*	JJ-E130-BN	TM-1040-SX	-	2,344.00
ITB-130-50-AN		50'	NG*	JJ-E130-BN	TM-F030-SX	TM-0020-SX	2,726.00
ITB-155-40-AN	150,000	40'	NG*	JJ-E155-BN	TM-1040-SX	-	2,454.00
ITB-155-50-AN		50'	NG*	JJ-E155-BN	TM-F030-SX	TM-0020-SX	2,835.00
ITB-155-60-AN		60'	NG*	JJ-E155-BN	TM-F030-SX	TM-0030-SX	3,064.00
ITB-175-50-AL	175,000	50'	LP **	JJ-E175-BL	TM-1030-SX	TM-0020-SX	3,054.00
ITB-175-50-AN		50'	NG*	JJ-E175-BN	TM-1030-SX	TM-0020-SX	3,054.00
ITB-175-60-AL		60'	LP **	JJ-E175-BL	TM-1030-SX	TM-0030-SX	3,283.00
ITB-175-60-AN		60'	NG*	JJ-E175-BN	TM-1030-SX	TM-0030-SX	3,283.00
ITB-175-70-AN		70'	NG Only	JJ-E175-BN	TM-1030-SX	TM-0040-SX	3,514.00
ITB-200-50-AN	200,000	50'	NG Only	JJ-E200-BN	TM-1030-SX	TM-0020-SX	3,054.00
ITB-200-60-AL		60'	LP **	JJ-E200-BL	TM-1030-SX	TM-0030-SX	3,283.00
ITB-200-60-AN		60'	NG*	JJ-E200-BN	TM-1030-SX	TM-0030-SX	3,283.00
ITB-200-70-AL		70'	LP **	JJ-E200-BL	TM-1030-SX	TM-0040-SX	3,514.00
ITB-200-70-AN		70'	NG*	JJ-E200-BN	TM-1030-SX	TM-0040-SX	3,514.00

Tube Heater System ships in 2 or 3 cartons with Burner Kit + required Tube Kit[s] for heater length

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent]. Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

Burner Kits: ITB Series - Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER; IGNITER FIELD INSTALLED IN 1ST TUBE

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-E045-BN	\$ 1,149.00
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-E060-BN	1,149.00
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-E080-BN	1,149.00
100,000 Btuh	20' special	N.G. ONLY	1/2" x 24"	JJ-E100-BN	1,149.00
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-E110-BN	1,149.00
110,000 Btuh LP **	30', 40', 50'	LP **	1/2" x 24"	JJ-E110-BL	1,149.00
125,000 Btuh	30'	30 ft = N.G. ONLY	1/2" x 24"	JJ-E130-BN	1,149.00
125,000 Btuh	40', 50'	N.G.* [40' & 50' for NG or LP]	1/2" x 24"	JJ-E130-BN	1,149.00
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-E155-BN	1,257.00
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-E175-BN	1,293.00
175,000 Btuh LP **	50', 60'	L.P.** [70' not available for LP]	3/4" X 36"	JJ-E175-BL	1,293.00
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-E200-BN	1,293.00
200,000 Btuh LP **	LP: 60', 70'	L.P.** [50' not available for LP]	3/4" X 36"	JJ-E200-BL	1,293.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Tube Kits: ITB Series - Can be ordered individually

Tube Kits include Swaged Tubes, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

<u>Stand-Alone Tube Kits [do not require any additional Tube Kit]</u>		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45/60/80,000	Flanged aluminized tube + 1 steel tube: Turbulators 4 ft + 8 ft	TM-1420-SX	\$ 767.00
20': 100,000 ONLY	Flanged aluminized tube + 1 steel tube: Turbulator Special 8 ft	TM-1020-SX	982.00
30': 60/80/110/125,000	Flanged aluminized tube + 1 aluminized tube + 1 steel tube: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TM-1430-SX	982.00
40': 80/110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 2 steel tubes: Turbulators 2 ft + 10 ft	TM-1040-SX	1,196.00
<u>Primary Tube Kits [require a Secondary Kit that assembles to create 50', 60' & 70' heaters]</u>			
30': 110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 1 steel tube: Turbulator 2 ft	TM-F030-SX	964.00
30': 175/200,000	Flanged stainless steel tube + 1 aluminized tube + 1 steel tube: Turbulators 4 ft + 6 ft [4 ft turbulator section removed in field for 200,000 x 60 ft & 70 ft]	TM-1030-SX	1,146.00
<u>Secondary Tube Kits [needed with above Primary Kits to make 50', 60' & 70' heaters]</u>			
20'	Two steel tubes [makes 50' heater with either 30' primary]	TM-0020-SX	616.00
30'	Three steel tubes [makes 60' heater with either 30' primary]	TM-0030-SX	844.00
40'	Four steel tubes [makes 70' heater with 30' primary TS-1030-JZ]	TM-0040-SX	1,076.00
10'	One steel tube, reflector, hangers, tube coupler Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.	TM-1010-SX	417.00



ITBU SERIES TUBE HEATERS

BUILDER MARKET SERIES

Side-by-Side 'U' Tube - No emissive coat

Beam hangers allow flexible positioning along system

Suspend with chain, cable, or threaded rod at each end of beam hanger

Suspension points: 4 per double 10 ft tube section; e.g.: 20 ft 'U' heater has 8 suspension points

BUILDER ITBU FEATURES:

- 24V or Line Voltage Thermostat Ready
- Birdscreened Combustion Air Collar - 4"
- Swing-down Cabinet Service Access
- Whisper Quiet Ceramic Burner
- End Capped Reflectors
- Flexible Gas Connector included
- U-tube concentrates heat output
- Gas supply & vent at same end of heater

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 30 to 33

TO ORDER: Use the SYSTEM KIT MODEL # or INDIVIDUAL BURNER & TUBE COMPONENT KITS

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
PU-0J40-AN	40,000	10' Total	NG*				\$ 2,262.00
ITBU-60-10-AN	60,000	10'U = 2 x 10'	NG*	JJ-E060-BN	TM-1410-SU	-	2,143.00
ITBU-80-10-AN	80,000	10'U = 2 x 10'	NG*	JJ-E080-BN	TM-1410-SU	-	2,143.00
ITBU-80-15-AN		15'U = 2 x 15'		JJ-E080-BN	TM-1415-SU	-	2,507.00
ITBU-110-15-AN	110,000	15'U = 2 x 15'	NG*	JJ-E110-BN	TM-1415-SU	-	2,507.00
ITBU-110-15-AL		15'U = 2 x 15'	LP**	JJ-E110-BL	TM-1415-SU	-	2,507.00
ITBU-110-20-AN		20'U = 2 x 20'	NG*	JJ-E110-BN	TM-1020-SU	-	2,592.00
ITBU-110-20-AL		20'U = 2 x 20'	LP**	JJ-E110-BL	TM-1020-SU	-	2,592.00
ITBU-130-15-AN	125,000	15'U = 2 x 15'	NG Only	JJ-E130-BN	TM-1415-SU	-	2,507.00
ITBU-130-20-AN		20'U = 2 x 20'	NG*	JJ-E130-BN	TM-1020-SU	-	2,592.00
ITBU-155-20-AN	150,000	20'U = 2 x 20'	NG*	JJ-E155-BN	TM-1020-SU	-	2,701.00
ITBU-155-30-AN		30'U = 2 x 30'		JJ-E155-BN	TM-0020-SU	TM-0010-SU	3,283.00
ITBU-175-30-AN	175,000	30'U = 2 x 30'	NG*	JJ-E175-BN	TM-A120-SU	TM-0010-SU	3,517.00
ITBU-200-30-AN	200,000	30'U = 2 x 30'	NG*	JJ-E200-BN	TM-A120-SU	TM-0010-SU	3,517.00

NOTE: 180° Turn Box packed in Tube Kit 1 #

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

Burner Kits: ITBU Series - Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER; IGNITER FIELD INSTALLED IN 1ST TUBE

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
60,000 Btuh	10' U	N.G.*	1/2" x 24"	JJ-E060-BN	\$ 1,149.00
80,000 Btuh	10' U, 15' U	N.G.*	1/2" x 24"	JJ-E080-BN	1,149.00
110,000 Btuh	15' U, 20' U	N.G.*	1/2" x 24"	JJ-E110-BN	1,149.00
110,000 Btuh LP **	15' U, 20' U	LP **	1/2" x 24"	JJ-E110-BL	1,149.00
125,000 Btuh	15' U	N.G. Only	1/2" x 24"	JJ-E130-BN	1,149.00
125,000 Btuh	20' U	N.G.*	1/2" x 24"	JJ-E130-BN	1,149.00
150,000 Btuh	20' U, 30' U	N.G.*	3/4" X 36"	JJ-E155-BN	1,257.00
175,000 Btuh NG	30' U	N.G. Only	3/4" X 36"	JJ-E175-BN	1,293.00
200,000 Btuh NG	30' U	N.G. Only	3/4" X 36"	JJ-E200-BN	1,293.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Tube Kits: ITBU Series

Tube Kits include Swaged Tubes, 180° Turn Box, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

Stand-Alone Tube Kits [do not require any additional Tube Kit]

		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
10'U: 60/80,000 Qty 2 x 10 ft tubes	Flanged aluminized tube + 1 steel tube; 180° Turn Box; Turbulators 4 ft + 10 ft	TM-1410-SU	\$ 995.00
15'U: 80/110/125,000 Qty 2 x 10 ft tubes + Qty 2 x 5 ft tubes	Flanged aluminized tube 10' + 1 steel tube 10' + 2 steel tube 5'; 180° Turn Box; Turbulators 4 ft + 10 ft	TM-1415-SU	1,359.00
20'U: 110/125/150,000 Qty 4 x 10 ft tubes	Flanged aluminized tube + 3 steel tube; 180° Turn Box; Turbulator 10 ft	TM-1020-SU	1,445.00

For 30'U Tube Systems: Primary Tube Kit + Secondary Tube Kit ship in separate cartons

Order Both Tube Kit #'s: 20 ft Primary Kit appropriate for input + 10 ft Secondary Kit to make 30'U-Tube heaters:

Option 1: 150,000 x 30' U

20'U Primary Kit	Flanged aluminized tube + 3 steel tube; 180° Turn Box	TM-0020-SU	1,409.00
+ 10 ft Secondary Kit	Needed with TM-0020-SU to make 30' U-Tube heaters	TM-0010-SU	616.00
Qty 6 x 10 ft tubes = 30' U Tube Assembly for 150,000 Burner			2,025.00

Option 2: 175,000 or 200,000 x 30' U

20'U Primary Kit	Flanged stainless steel tube + 1 aluminized tube + 2 steel tube; Turbulator 10 ft; 180° Turn Box	TM-A120-SU	\$ 1,611.00
+ 10 ft Secondary Kit	Needed with TM-A120-SU to make 30' U-Tube heaters	TM-0010-SU	616.00
Qty 6 x 10 ft tubes = 30' U Tube Assembly for 175,000 & 200,000 Burner			2,227.00



ITT SERIES - TWO STAGE

[Single Straight Tube - No emissive coat]

Wire hangers allow flexible positioning along system

Suspend with chain, cable, or threaded rod; Suspension points: 2 per tube; e.g.: 40 ft heater has 8 suspension points

MODEL ITT FEATURES:

- 2-Stage burner operation (100%/70%)
- Birdscreened Combustion Air Collar - 4"
- Status indicator lights
- Swing-down Cabinet Service Access
- Whisper Quiet Ceramic Burner
- End Capped Reflectors
- Flexible Gas Connector included

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 30 to 33

TO ORDER: Use the SYSTEM KIT MODEL # or INDIVIDUAL BURNER & TUBE COMPONENT KITS

SYSTEM KIT MODEL #	CAPACITY INPUT [Btu/h]	TUBE LENGTH	FUEL	COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
ITT-80-20-AN	80,000/60,000	20'	NG*	JJ-080T-BN	TM-1420-SX	-	\$ 2,346.00
ITT-80-30-AN		30'		JJ-080T-BN	TM-1430-SX	-	2,560.00
ITT-110-30-AN	110,000/75,000	30'	NG*	JJ-110T-BN	TM-1430-SX	-	2,560.00
ITT-110-30-AL		30'	LP**	JJ-110T-BL	TM-1430-SX	-	2,560.00
ITT-110-40-AN		40'	NG*	JJ-110T-BN	TM-1040-SX	-	2,775.00
ITT-110-40-AL		40'	LP**	JJ-110T-BL	TM-1040-SX	-	2,775.00
ITT-130-30-AN	125,000/90,000	30'	NG Only	JJ-130T-BN	TM-1430-SX	-	2,560.00
ITT-130-40-AN		40'	NG*	JJ-130T-BN	TM-1040-SX	-	2,775.00
ITT-155-40-AN	150,000/110,000	40'	NG*	JJ-155T-BN	TM-1040-SX	-	2,895.00
ITT-155-50-AN		50'		JJ-155T-BN	TM-F030-SX	TM-0020-SX	3,280.00
ITT-175-50-AN	175,000/125,000	50'	NG Only	JJ-175T-BN	TM-1030-SX	TM-0020-SX	3,510.00
ITT-175-60-AN		60'		JJ-175T-BN	TM-1030-SX	TM-0030-SX	3,738.00
ITT-200-50-AN	200,000/140,000	50'	NG Only	JJ-200T-BN	TM-1030-SX	TM-0020-SX	3,510.00
ITT-200-60-AN		60'		JJ-200T-BN	TM-1030-SX	TM-0030-SX	3,738.00

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

THERMOSTAT CONTROL for Two Stage:

Two Stage 24V Digital Thermostat

PART #	LIST PRICE*
JS-0569-DT	\$ 340.00

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

Burner Kits: 2-Stage ITT Series - Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac 2-Stage Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER; IGNITER FIELD INSTALLED IN 1ST TUBE

<u>CAPACITY Btuh</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
80,000/60,000	20', 30'	N.G.*	1/2" x 24"	JJ-080T-BN	\$ 1,610.00
110,000/75,000	30', 40'	N.G.*	1/2" x 24"	JJ-110T-BN	\$ 1,610.00
110,000/75,000	30', 40'	LP**	1/2" x 24"	JJ-110T-BL	1,610.00
125,000/90,000	30'	N.G. ONLY	1/2" x 24"	JJ-130T-BN	1,610.00
125,000/90,000	40'	N.G.*	1/2" x 24"	JJ-130T-BN	1,610.00
150,000/110,000	40', 50'	N.G.*	3/4" X 36"	JJ-155T-BN	1,733.00
175,000/125,000	50', 60'	N.G. ONLY	3/4" X 36"	JJ-175T-BN	1,782.00
200,000/140,000	50', 60'	N.G. ONLY	3/4" X 36"	JJ-200T-BN	1,782.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Tube Kits: ITT Series - Can be ordered individually

Tube Kits include Swaged Tubes, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

Stand-Alone Tube Kits [do not require any additional Tube Kit]

		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 80,000	Flanged aluminized tube + 1 steel tube; Turbulators 4 ft + 8 ft	TM-1420-SX	\$ 767.00
30': 80/110/125,000	Flanged aluminized tube + 1 aluminized tube + 1 steel tube: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TM-1430-SX	982.00
40': 110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 2 steel tubes: Turbulators 2 ft + 10 ft	TM-1040-SX	1,196.00

Primary Tube Kits [require a Secondary Kit that assembles to create 50' & 60' heaters]

30': 150,000	Flanged aluminized tube + 1 aluminized tube + 1 steel tube; Turbulator 2 ft	TM-F030-SX	964.00
30': 175/200,000	Flanged stainless steel tube + 1 aluminized tube + 1 steel tube: Turbulators 4 ft + 6 ft [4 ft turbulator section removed in field for 200,000 x 60 ft]	TM-1030-SX	1,146.00

Secondary Tube Kits [needed for above Primary Kits to make 50' & 60' heaters]

20'	Two steel tubes [makes 50' heater with either 30' primary]	TM-0020-SX	616.00
30'	Three steel tubes [makes 60' heater with either 30' primary]	TM-0030-SX	844.00
10'	One steel tube, reflector, hangers, tube coupler	TM-1010-SX	417.00

Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.



ITTU SERIES - TWO STAGE

[Double Tube - No emissive coat]

Beam hangers allow flexible positioning along system

Suspend with chain, cable, or threaded rod at each end of beam hanger

Suspension points: 4 per double 10 ft tube section; e.g.: 20 ft 'U' heater has 8 suspension points

MODEL ITTU FEATURES:

- 2-Stage burner operation (100/70%)
- Birdscreened Combustion Air Collar - 4"
- Status indicator lights
- Swing-down Cabinet Service Access
- Whisper Quiet Ceramic Burner
- End Capped Reflectors
- Flexible Gas Connector included
- U-tube concentrates heat output
- Gas supply & vent at same end of heater

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 30 to 33

TO ORDER: Use the SYSTEM KIT MODEL # or INDIVIDUAL BURNER & TUBE COMPONENT KITS

SYSTEM KIT MODEL #	CAPACITY INPUT [Btu/h]	TUBE			COMPONENT KITS [individual cartons]			LIST PRICE
		LENGTH	FUEL		Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
ITTU-80-10-AN	80,000/60,000	10'U =	2 x 10'	NG*	JJ-080T-BN	TM-1410-SU	-	\$ 2,573.00
ITTU-80-15-AN		15'U =	2 x 15'		JJ-080T-BN	TM-1415-SU	-	2,939.00
ITTU-110-15-AN	110,000/75,000	15'U =	2 x 15'	NG	JJ-110T-BN	TM-1415-SU	-	2,939.00
ITTU-110-15-AL		15'U =	2 x 15'	LP**	JJ-110T-BL	TM-1415-SU	-	2,939.00
ITTU-110-20-AN	110,000/75,000	20'U =	2 x 20'	NG	JJ-110T-BN	TM-1020-SU	-	3,024.00
ITTU-110-20-AL		20'U =	2 x 20'	LP**	JJ-110T-BL	TM-1020-SU	-	3,024.00
ITTU-130-15-AN	125,000/90,000	15'U =	2 x 15'	NG Only	JJ-130T-BN	TM-1415-SU	-	2,939.00
ITTU-130-20-AN		20'U =	2 x 20'	NG*	JJ-130T-BN	TM-1020-SU	-	3,024.00
ITTU-155-20-AN	150,000/110,000	20'U =	2 x 20'	NG*	JJ-155T-BN	TM-1020-SU	-	3,146.00
ITTU-155-30-AN		30'U =	2 x 30'		JJ-155T-BN	TM-0020-SU	TM-0010-SU	3,725.00
ITTU-175-30-AN	175,000/125,000	30'U =	2 x 30'	NG Only	JJ-175T-BN	TM-A120-SU	TM-0010-SU	3,972.00
ITTU-200-30-AN	200,000/140,000	30'U =	2 x 30'	NG Only	JJ-200T-BN	TM-A120-SU	TM-0010-SU	3,972.00

NOTE: 180° Turn Box packed in Tube Kit 1 #

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

THERMOSTAT CONTROL for Two Stage:

Two Stage 24V Digital Thermostat

PART #	LIST PRICE*
JS-0569-DT	\$ 340.00

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

2-Stage Burner Kits: ITTU Series - Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER; IGNITER FIELD INSTALLED IN 1ST TUBE

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>		<u>LIST PRICE</u>
80,000/60,000	10'U, 15'U	N.G.*	1/2" x 24"	JJ-080T-BN	\$	1,610.00
110,000/75,000	15'U, 20'U	N.G.*	1/2" x 24"	JJ-110T-BN		1,610.00
110,000/75,000 LP **	15' U, 20' U	LP **	1/2" x 24"	JJ-110T-BL		1,610.00
125,000/90,000	15'U	N.G. Only	1/2" x 24"	JJ-130T-BN		1,610.00
125,000/90,000	20' U	N.G.*	1/2" x 24"	JJ-130T-BN		1,610.00
150,000/110,000	20'U, 30'U	N.G.*	3/4" X 36"	JJ-155T-BN		1,733.00
175,000/125,000	30'U	N.G. Only	3/4" X 36"	JJ-175T-BN		1,782.00
200,000/140,000	30'U	N.G. Only	3/4" X 36"	JJ-200T-BN		1,782.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Tube Kits: ITTU Series - Can be ordered individually

Tube Kits include Swaged Tubes, 180° Turn Box, Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

Stand-Alone Tube Kits [do not require any additional Tube Kit]

		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
10'U: 80/60 Qty 2 x 10 ft tubes	Flanged aluminized tube + 1 steel tube; 180° Turn Box; Turbulators 4 ft + 10 ft	TM-1410-SU	\$ 995.00
15'U: 80/60, 110/75, 125/90 Qty 2 x 10 ft tubes + Qty 2 x 5 ft tubes	Flanged aluminized tube 10' + 1 steel tube 10' + 2 steel tube 5'; 180° Turn Box; Turbulators 4 ft + 10 ft	TM-1415-SU	1,359.00
20'U: 110/75, 125/90, 150/110 Qty 4 x 10 ft tubes	Flanged aluminized tube + 3 steel tube; 180° Turn Box; Turbulator 10 ft	TM-1020-SU	1,445.00

For 30'U Tube Systems: Primary Tube Kit + Secondary Tube Kit ship in separate cartons

Order Both Tube Kit #'s: 20 ft Primary Kit appropriate for input + 10 ft Secondary Kit to make 30'U-Tube heaters:

Option 1: 150,000/110,000 x 30' U

20'U Primary Kit	Flanged aluminized tube + 3 steel tube; 180° Turn Box	TM-0020-SU	1,409.00
+ 10 ft Secondary Kit	Needed with TM-0020-SU to make 30' U-Tube heaters	TM-0010-SU	616.00
Qty 6 x 10 ft tubes = 30' U Tube Assembly for 150,000 Burner			2,025.00

Option 2: 175,000/125,000 or 200,000/140,000 x 30' U

20'U Primary Kit	Flanged stainless steel tube + 1 aluminized tube + 2 steel tube; Turbulator 10 ft; 180° Turn Box	TM-A120-SU	\$ 1,611.00
+ 10 ft Secondary Kit	Needed with TM-A120-SU to make 30' U-Tube heaters	TM-0010-SU	616.00
Qty 6 x 10 ft tubes = 30' U Tube Assembly for 175,000 & 200,000 Burner			2,227.00

OPTIONAL ACCESSORIES - Page 1 of 3

INDOOR TUBE HEATER MODELS: IQ, ITB/U, ITT/U

Thermostats: Page 32

Suspension Hardware:

Calculate Quantity { IQ Series: Total Tube Length divided by 10 plus 2 $[(\text{Tube Length}/10) + 2]$
 Suspension Points: { ITB, ITT Models: Total Tube Length divided by 5 plus 1 $[(\text{heater tube length}/5) + 1]$

Calculate Chain: example: ITB x 40 ft heater located 3 ft below structural support = $[(40/5) + 1] = 9$ suspension points x 3 = 27 ft of chain

Gripple Express™ ~ For indoor use only

- ! No tools required for adjustment
- ! Ready to use 10 ft cable length kit - loop one end
- ! 100 lb work load

Package of 10

PART #

LIST PRICE

JL-0800-GR-B

\$

270.00



#2 Lion Chain - **115 lb work load** - 200 ft roll

JL-0800-XX

157.00

Safety Snap Hooks - 2"

Package of 24

JL-0800-SH

64.00

Package of 100

JL-0800-SH-B

197.00

'S' Hooks - 1 7/8"

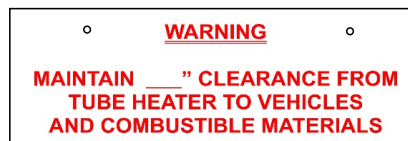
Package of 25

JL-0798-SH

37.00

CLEARANCE TO COMBUSTIBLES SIGN

Metal sign - 18" x 6" - 3/4" red lettering
on white background



JL-0798-CS

59.00

Elbow Kits: Install within the tube system

Models IQ, IW, IWP Modular Elbow Kit:



90° Aluminized Steel Elbow & Reflector Cover Kit [IQ, IW, IWP]:

JS-0508-JZ

\$

255.00

[Elbow can be installed right or left hand - Includes coupler, reflector cover, hanger plate]

180° Elbow Kit [IQ, IW, IWP]: ORDER: TWO x 90° ELBOW KITS

Qty 2 x JS-0508-JZ

510.00

Û Reflector Angle Adapter - ONE REQUIRED AT EACH JUNCTURE of an angle change

JS-0504-JZ

\$

25.00

NOTE: The elbow reflector cap must always be in the horizontal plane - cap cannot be angle mounted
 The Reflector Angle Adapter is required for angle mounting a reflector section before or after an elbow
 Or for mounting of a reflector section at a different angle relative to the other reflectors in the system.

ITB & ITT Series Elbow Kits: [These models do NOT have a reflector cover over the elbow]

ITB & ITT 90° Aluminized Steel Elbow Kit

JS-0508-SM

\$

190.00



S100 Elbow Kit includes: one elbow,
one 4" tube coupler and two
reflector end caps

ITB & ITT 180° Aluminized Steel Elbow Kit

- Order TWO x JS-0508-SM OR order Model S100U or SETU

Qty 2 x JS-0508-SM

380.00

90° Elbow Kit [all superTube models]:

JS-0508-SST

\$

301.00

OPTIONAL ACCESSORIES - Page 2 of 3

INDOOR TUBE HEATER MODELS: IQ, ITB/U, ITT/U

Thermostats: Next page

Combustion Air Intake Hood: *Optional*

All tube heater models have a 4" diameter collar on the blower or burner for 4" air duct attachment.

Refer to I&O manual for complete details on venting and combustion air.



4" Outside Air Intake Wall Vent Hood ~ birdscreened

PART #

JS-0532-VC

\$

LIST PRICE

30.00

CAUTION: In some climates hoarfrost can build on the birdscreen and cause heater malfunction on proving air switch. If your area experiences hoarfrost, use local solution for combustion air terminal.

Roof Vent [Rain Cap] Terminals supplied locally

Vent Options:



Horizontal / Wall Terminal*

* Fits single wall vent pipe - field crimp required to fit to double wall pipe

Use this termination cap by Infrasave or use an approved High Wind termination cap as supplied by others

Roof Termination: Use approved cap supplied by manufacturer of double-walled vent pipe

Flue Vent Terminals:

PART #**LIST PRICE**

4" horizontal [through wall]

JA-0528-XX

\$

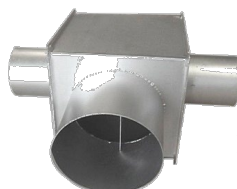
41.00

6" horizontal

JA-0529-XX

49.00

Vent Tee 4" X 4" X 6"
[Two couplers JA-0516-AA are optional]



4" x 4" x 6"
Vent Tee

JA-0514-XX

209.00

Optional Couplers for Vent Tee:

4" x 8" Aluminized Steel Coupler with 2 x U-bolts

JA-0516-AA

67.00

Decorative 'Tuxedo' Grille Kit - IQ, IW, IWP Models Only

Dress up your tube heater installations.

Ideal for: q Showrooms

q Retail areas

q Any area requiring a more refined 'look'



Matte black grille & aluminized steel framing secures with tabs to 'JZ' Series heater reflectors. [Not for ITB & ITT Series]

Decorative 'Tuxedo' Grille Kit - 10 ft - Matte Black Grille

Each 10 foot section

TG-0010-KT

\$

573.00

Reflector Side Extension - All models - 10" deep x 116" long c/w Qty 3 x 'S' hooks

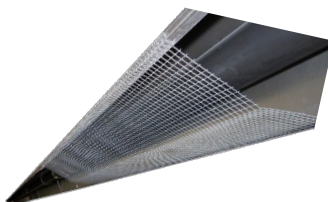
JS-0509-KT

76.00

Tube Protection Screen - 5 ft length

[1/2" x 1/2" galvanized screen]

[custom order: longer lead time]

**Models: IQ, IW, IWP**

JA-0780-XX

141.00

Models: ITB, ITT

JA-0780-XS

141.00

THERMOSTATS & CONTROL OPTIONS - next page

OPTIONAL ACCESSORIES - Page 3 of 3

THERMOSTATS & CONTROLS

Tube heaters are "factory ready" for line voltage or 24Vac thermostat control

IMPORTANT: Models IQ, ITB with Fenwal Ignition Control

The Fenwal ignition control has a post-purge feature that purges the system when call-for-heat ends

For the post-purge feature to function, a 24V thermostat or 24V control signal must be used

Line voltage control will disconnect power from the ignition control and disable the post-purge feature

Multiple heaters in 24 volt thermostat zone require option JS-0568-CC [see below]

TruTemp Infrared Setback Thermostat

24Vac; °F & °C scales

BEST thermostat control for IR heaters

Enables all features of the ignition control



JM-0150-XX

\$

225.00

Saves up to an additional 15%

See more detail on the TruTemp next page

Line Voltage Thermostat [°F & °C Scales]

Note: Line voltage control disables the Post Purge feature of the ignition control

Use 24Vac Thermostat for Post Purge



JL-0772-XX

\$

63.00

Low Voltage [24V] Digital Thermostat [°F / °C Selectable]

Note: Low voltage control enables all features of the ignition control



JS-0569-WR

\$

106.00

Moisture Proof Thermostat [NEMA 4X enclosure]



JS-0570-XX

\$

153.00

MULTIPLE HEATER - 24 VOLT CONTROL OPTIONS:

Control Multiple Tube Heaters in a common zone with one 24V Thermostat [wired to 1st heater]:

Each Additional heater requires 1 x 24V Relay Switch

JS-0568-CC

\$

28.00

✓ FIELD INSTALLED ON EXTERIOR OR INTERIOR OF BURNER HOUSING

✓ ONE REQUIRED FOR EACH BURNER EXCEPT THE FIRST ONE IN A ZONE

FIRST BURNER IS CONTROLLED BY 24V THERMOSTAT

[E.G.: A ZONE WITH 4 HEATERS REQUIRES: 1 x 24V Thermostat + 3 x Relay Switches]

✓ Refer to 24V Guidelines on page 11, and/or the I&O Manual wiring diagram for the heater model



2-STAGE THERMOSTAT CONTROL:

Two Stage 24V Digital Thermostat

JS-0569-DT

\$

340.00

TRUTEMP

Infrared Setback Thermostat



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 heating system operation. An automatic setback feature further adds to fuel savings when the building is unoccupied. TruTemp thermostat can be used in conjunction with all Infrasave indoor heaters. 4" Diameter hemisphere fits standard electrical box

<u>MODEL</u>	<u>VOLTAGE</u>	<u>PART #</u>	<u>LIST PRICE</u>
TruTemp Thermostat	24 volts ac	JM-0150-XX	\$ 225.00

FIELD MOUNTED OPTIONS REQUIRED WITH TruTemp THERMOSTAT

- For each SINGLE TUBE HEATER controlled by SINGLE TruTemp

<u>ORDER</u>	<u>PART #</u>
1 TruTemp Thermostat	JM-0150-XX

- For MULTIPLE TUBE HEATERS controlled by SINGLE TruTemp

Control Multiple Tube Heaters in a common zone with one 24V TruTemp [wired to 1st heater]:

Each Additional heater requires 1 x 24V Relay Switch JS-0568-CC \$ 28.00

n FIELD INSTALLED ON EXTERIOR OR INTERIOR OF BURNER HOUSING

n ONE REQUIRED FOR EACH BURNER EXCEPT THE FIRST ONE IN A ZONE
FIRST BURNER IS CONTROLLED BY 24V TruTemp

[E.G.: A ZONE WITH 4 HEATERS REQUIRES: 1 x 24V Thermostat + 3 x Relay Switches]

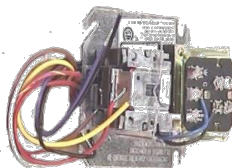
n Refer to 24V Guidelines on page 11, and/or the I&O Manual wiring diagram



- HIGH INTENSITY HEATERS with EXHAUST FAN controlled by SINGLE TruTemp per ZONE

ORDER TruTemp plus this item:

1 Transformer/Relay
[field mounted]



<u>PART #</u>	
JM-0300-AA	\$ 167.00

SECURITY OPTION TO PREVENT UNAUTHORIZED TAMPERING WITH TruTemp SETTINGS

Two S/S Tamperproof Screws and One Tool
[Order for the first TruTemp on project]

JM-0180-XX	\$ 104.00
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Two S/S Tamperproof Screws
[Order for each TruTemp on project]

JM-0180-AA	10.00
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ARENA SPECTATOR 'COMFORT' HEATING

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

Infrasave ARENA CONTROL PANEL

ARENA CONTROL PANEL IS USED TO CONTROL THE DURATION OF OPERATION OF Infrasave HEATERS IN ARENA SPECTATOR HEATING, OR OTHER APPLICATIONS WHERE MULTI-ZONE DURATION CONTROL IS REQUIRED.

Includes: A master timer that can be adjusted by the operator for 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 heaters [refer to page 11 for 24V Transformer sizing and pricing].

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

For arena applications, Infrasave recommends one [or at most two] heaters per zone.

For extraordinary projects contact Infrasave.

	<u>MODEL</u>	<u>NUMBER OF HEATERS</u>		<u>PART #</u>	<u>LIST PRICE</u>
		<u>or ZONES</u>			
ARENA CONTROL PANELS	ACPT- 8	up to	8	JM-0408-XX	\$ 1,864.00
	ACPT-12	up to	12	JM-0412-XX	2,007.00
	ACPT-16	up to	16	JM-0416-XX	2,189.00



- Outdoor Patio Heating
- Wash Bay Applications
- Wet & Harsh Environment
- Food Industry Applications

Four Models to suit the application and environment: Three Models with Single or 2-Stage Burners

IWP Series: Single Stage Burner with Powder Coated Cabinet

IWP2 Series: Two-Stage Burner with Powder Coated Cabinet

- ✓ Preferred model for covered and enclosed patio areas; most economical solution
- ✓ Fresh air adapter and cap for 'outside' combustion air
- ✓ Weather tight powder coated burner cabinet
- ✓ Moisture resistant spark ignition package
- ✓ Designer color blends with patio aesthetics
- ✓ Tough, durable finish
- ✓ Best choice for patios, outdoor, wash bays and damp environments
- ✓ Aluminized steel: reflectors and tubes

IW Series: Single Stage Burner with Stainless Steel Cabinet

IW2 Series: Two-Stage Burner with Stainless Steel Cabinet

- ✓ Preferred model for harsh environments
- ✓ Recommended for use in harsh environment applications: Car & truck power washes
- ✓ Weather tight stainless steel burner cabinet
- ✓ Fresh air adapter and cap for 'outside' combustion air
- ✓ Aluminized steel: reflectors and tubes
- ✓ Moisture resistant spark ignition package

IWS Series: Single-stage Burner with Stainless Steel Housing, Tubes, & Reflectors

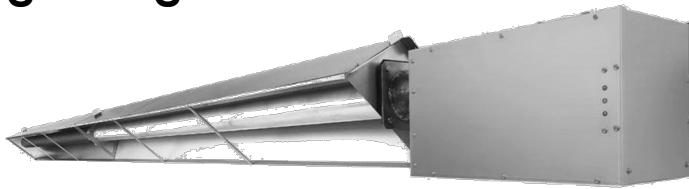
IW2S Series: 2-Stage Burner with Stainless Steel Housing, Tubes, & Reflectors

- ✓ Use ONLY where 'Stainless' is a necessity -> highly corrosive or food industry applications
- ✓ Stainless steel reflectors and stainless steel tubes
- ✓ Weather tight stainless steel burner cabinet
- ✓ Moisture resistant ignition control
- ✓ Fresh air adapter and cap for 'outside' combustion air
- ✓ Moisture resistant spark ignition package
- ✓ Fresh air adapter and cap for 'outside' combustion air
- ✓ NOTE: Stainless steel tubing has a lower emissivity value than aluminized steel tube
 - Less infrared heat output than other harsh environment models
 - Use the 'next size up' heater for infrared output equivalency to IW or IWP

P40U-IP, -IW Series: Single Stage only; Factory Assembled, Installs Directly from Carton

- ✓ Compact 'U'-Tube with 40,000 Btuh burner is 10'-3" total length
- ✓ P40U-IP has powder coated burner cabinet
- ✓ P40U-IW with stainless steel burner cabinet

Single Stage IWP Series



IWP FEATURES:

- 24V or Line Voltage Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened 4" Combustion Air Collar and Intake Wall Hood
- Whisper Quiet Ceramic Burner
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

PATIO, OUTDOOR, & WASH BAY

- Powder Coated Weather Tight Burner Cabinet
- Aluminized Steel Tubes & Reflectors

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 48 & 49

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
PU-PJ40-AN	40,000	10' U	NG*				\$ 2,851.00
IWP-45-20-AN	45,000	20'	NG*	JJ-045W-BN	TW-1420-JZ	-	2,869.00
IWP-60-20-AN	60,000	20'	NG*	JJ-060W-BN	TW-1420-JZ	-	2,869.00
IWP-60-30-AN		30'		JJ-060W-BN	TW-1430-JZ	-	3,174.00
IWP-80-20-AN	80,000	20'	NG*	JJ-080W-BN	TW-1420-JZ	-	2,869.00
IWP-80-30-AN		30'		JJ-080W-BN	TW-1430-JZ	-	3,174.00
IWP-80-40-AN		40'		JJ-080W-BN	TW-1040-JZ	-	3,525.00
IWP-110-30-AN	110,000	30'	NG*	JJ-110W-BN	TW-1430-JZ	-	3,174.00
IWP-110-30-AL		30'	LP**	JJ-110W-BL	TW-1430-JZ	-	3,174.00
IWP-110-40-AN		40'	NG*	JJ-110W-BN	TW-1040-JZ	-	3,525.00
IWP-110-40-AL		40'	LP**	JJ-110W-BL	TW-1040-JZ	-	3,525.00
IWP-110-50-AN		50'	NG*	JJ-110W-BN	TW-F030-JZ	TW-0020-JZ	3,987.00
IWP-110-50-AL		50'	LP**	JJ-110W-BL	TW-F030-JZ	TW-0020-JZ	3,987.00
IWP-130-30-AN	125,000	30'	NG Only	JJ-130W-BN	TW-1430-JZ	-	3,174.00
IWP-130-40-AN		40'	NG*	JJ-130W-BN	TW-1040-JZ	-	3,525.00
IWP-130-50-AN		50'	NG*	JJ-130W-BN	TW-F030-JZ	TW-0020-JZ	3,987.00
IWP-155-40-AN	150,000	40'	NG*	JJ-155W-BN	TW-1040-JZ	-	3,645.00
IWP-155-50-AN		50'		JJ-155W-BN	TW-F030-JZ	TW-0020-JZ	4,106.00
IWP-155-60-AN		60'		JJ-155W-BN	TW-F030-JZ	TW-0030-JZ	4,425.00
IWP-175-50-AL	175,000	50'	LP**	JJ-175W-BL	TW-1030-JZ	TW-0020-JZ	4,369.00
IWP-175-50-AN		50'	NG*	JJ-175W-BN	TW-1030-JZ	TW-0020-JZ	4,369.00
IWP-175-60-AL		60'	LP**	JJ-175W-BL	TW-1030-JZ	TW-0030-JZ	4,687.00
IWP-175-60-AN		60'	NG*	JJ-175W-BN	TW-1030-JZ	TW-0030-JZ	4,687.00
IWP-175-70-AN		70'	NG Only	JJ-175W-BN	TW-1030-JZ	TW-0040-JZ	5,025.00
IWP-200-50-AN	200,000	50'	NG Only	JJ-200W-BN	TW-1030-JZ	TW-0020-JZ	4,369.00
IWP-200-60-AL		60'	LP**	JJ-200W-BL	TW-1030-JZ	TW-0030-JZ	4,687.00
IWP-200-60-AN		60'	NG*	JJ-200W-BN	TW-1030-JZ	TW-0030-JZ	4,687.00
IWP-200-70-AL		70'	LP**	JJ-200W-BL	TW-1030-JZ	TW-0040-JZ	5,025.00
IWP-200-70-AN		70'	NG*	JJ-200W-BN	TW-1030-JZ	TW-0040-JZ	5,025.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent]. Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

Burner Kits: IWP Series - Powder Coated Burner Housing

- Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-045W-BN	\$ 1,903.00
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-060W-BN	1,903.00
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-080W-BN	1,903.00
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-110W-BN	1,903.00
110,000 Btuh LP **	30', 40', 50'	L.P.**	1/2" x 24"	JJ-110W-BL	1,903.00
125,000 Btuh	30'	N.G. Only	1/2" x 24"	JJ-130W-BN	1,903.00
125,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-130W-BN	1,903.00
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-155W-BN	2,023.00
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-175W-BN	2,072.00
175,000 Btuh LP **	50', 60'	L.P.**	3/4" X 36"	JJ-175W-BL	2,072.00
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-200W-BN	2,072.00
200,000 Btuh LP **	60', 70'	L.P.**	3/4" X 36"	JJ-200W-BL	2,072.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Aluminized Steel Tube Kits: IWP Series

- Can be ordered individually

ALL Tubes are Aluminized Steel Swaged, Aluminized Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s]

Stand-Alone Tube Kits [do not require any additional Tube Kit]

		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$ 965.00
30': 60/80/110/125,000	Flanged aluminized steel tube + 2 emissive coated aluminized tubes: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TW-1430-JZ	1,271.00
40': 80/110/125/150,000	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ	1,622.00

Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]

30': 110/125/150,000	Aluminized steel: Flanged tube + 2 emissive coated tubes: Turbulator 2 ft	TW-F030-JZ	1,235.00
30': 175/200,000	Flanged stainless tube + 1 aluminized steel tube + 1 emissive coated aluminized tube: Turbulator 10 ft	TW-1030-JZ	1,449.00

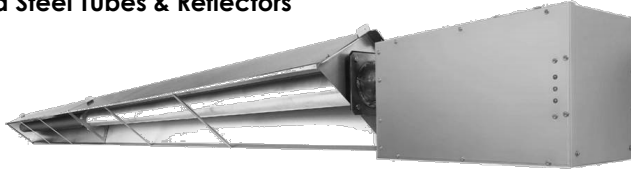
Secondary Tube Kits [needed for above Primary Kits to make 50', 60' & 70' heaters]

20'	Two emissive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ	849.00
30'	Three emissive coated aluminized tubes [makes 60' heater with either 30' primary]	TW-0030-JZ	1,168.00
40'	Four emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ	1,505.00
10'	One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.	TW-1010-JZ	525.00

Two-Stage IWP2 Series

PATIO, OUTDOOR, & WASH BAY

- Powder Coated Weather Tight Burner Cabinet
- Aluminized Steel Tubes & Reflectors



IWP2 FEATURES:

- 2-Stage Operation
- 24V Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened 4" Combustion Air Collar and Intake Wall Hood
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 48 & 49

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
IWP2-80-20-AN	78/58,000	20'	NG*	JJ-TW08-BN	TW-1420-JZ	-	\$ 3,024.00
IWP2-80-30-AN		30'	NG*	JJ-TW08-BN	TW-1430-JZ	-	3,328.00
IWP2-110-30-AN	110/80,000	30'	NG*	JJ-TW11-BN	TW-1430-JZ	-	3,328.00
IWP2-110-30-AL	108/70,000	30'	LP**	JJ-TW11-BL	TW-1430-JZ	-	3,328.00
IWP2-110-40-AN		40'	NG*	JJ-TW11-BN	TW-1040-JZ	-	3,681.00
IWP2-110-40-AL		40'	LP**	JJ-TW11-BL	TW-1040-JZ	-	3,681.00
IWP2-130-30-AN	120/85,000	30'	NG Only	JJ-TW13-BN	TW-1430-JZ	-	3,328.00
IWP2-130-40-AN		40'	NG*	JJ-TW13-BN	TW-1040-JZ	-	3,681.00
IWP2-155-40-AN	150/110,000	40'	NG*	JJ-TW15-BN	TW-1040-JZ	-	3,800.00
IWP2-155-50-AN		50'	NG*	JJ-TW15-BN	TW-F030-JZ	TW-0020-JZ	4,262.00
175 & 200 Models not suitable for patio application							
IWP2-175-50-AN	162/115,000	50'	NG Only	JJ-TW17-BN	TW-1030-JZ	TW-0020-JZ	\$ 4,522.00
IWP2-175-60-AN		60'	NG Only	JJ-TW17-BN	TW-1030-JZ	TW-0030-JZ	4,842.00
IWP2-200-50-AN	195/140,000	50'	NG Only	JJ-TW20-BN	TW-1030-JZ	TW-0020-JZ	4,522.00
IWP2-200-60-AN		60'	NG Only	JJ-TW20-BN	TW-1030-JZ	TW-0030-JZ	4,842.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below are ordered individually

Burner Kits: IWP2 2-Stage Series - Order individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: POWDER COATED HOUSING, FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>MODEL</u>	<u>ACTUAL CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
80/60	78 / 58,000	20', 30'	N.G.*	1/2" x 24"	JJ-TW08-BN	\$ 2,058.00
110/75	110 / 80,000	30', 40'	N.G.*	1/2" x 24"	JJ-TW11-BN	2,058.00
	108 / 70,000 L.P.**	30', 40'	L.P.**	1/2" x 24"	JJ-TW11-BL	2,058.00
130/90	120 / 85,000	30'	N.G. Only	1/2" x 24"	JJ-TW13-BN	2,058.00
	120 / 85,000	40'	N.G.*	1/2" x 24"	JJ-TW13-BN	2,058.00
155/110	150 / 110,000	40', 50'	N.G.*	3/4" X 36"	JJ-TW15-BN	2,178.00
175/125	162 / 115,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TW17-BN	2,228.00
200/140	195 / 140,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TW20-BN	2,228.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

** Burner can be ordered LP see notes page 61

Aluminized Steel Tube Kits: IWP2 & IWP Series

ALL Tubes are Aluminized Steel Swaged, Aluminized Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s]

Stand-Alone Tube Kits [do not require any additional Tube Kit]

		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$ 965.00
30': 60/80/110/125,000	Flanged aluminized steel tube + 2 emissive coated aluminized tubes: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TW-1430-JZ	1,271.00
40': 80/110/125/150,000	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ	1,622.00

Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]

30': 110/125/150,000	Aluminized steel: Flanged tube + 2 emissive coated tubes: No Turbulator	TW-F030-JZ	1,235.00
30': 175/200,000	Flanged stainless tube + 2 emissive coated aluminized tubes: Turbulator 10 ft	TW-1030-JZ	1,449.00

Secondary Tube Kits [needed for above Primary Kits to make 50', 60' & 70' heaters]

20'	Two emissive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ	849.00
30'	Three emissive coated aluminized tubes [makes 60' heater with either 30' primary]	TW-0030-JZ	1,168.00
40'	Four emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ	1,505.00
10'	One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler	TW-1010-JZ	525.00

Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.



Stainless Steel Burner Housing

Single Stage IW Series

PATIO, OUTDOOR, & WASH BAY

- Stainless Steel Weather Tight Burner Cabinet
- Aluminized Steel Tubes & Reflectors

IW SERIES FEATURES:

- 24V or Line Voltage Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened 4" Combustion Air Collar and Intake Wall Hood
- Whisper Quiet Ceramic Burner
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 48 & 49

SYSTEM	CAPACITY	TUBE		SYSTEM COMPONENT KITS [individual cartons]				
KIT MODEL #	INPUT [Btu/h]	LENGTH	FUEL	Burner Kit #	Tube Kit 1 #	Tube Kit 2 #		LIST PRICE
PU-W040-AN	40,000	10' U	NG*	[U-Tube; Factory Assembled in Carton - details Page 15]			\$	3,195.00
IW-45-20-AN	45,000	20'	NG*	JJ-P045-BN	TW-1420-JZ	-		3,217.00
IW-60-20-AN	60,000	20'	NG*	JJ-P060-BN	TW-1420-JZ	-		3,217.00
IW-60-30-AN		30'	NG*	JJ-P060-BN	TW-1430-JZ	-		3,522.00
IW-80-20-AN	80,000	20'	NG*	JJ-P080-BN	TW-1420-JZ	-		3,217.00
IW-80-30-AN		30'	NG*	JJ-P080-BN	TW-1430-JZ	-		3,522.00
IW-80-40-AN		40'	NG*	JJ-P080-BN	TW-1040-JZ	-		3,874.00
IW-110-30-AN	110,000	30'	NG*	JJ-P110-BN	TW-1430-JZ	-		3,522.00
IW-110-30-AL	110,000	30'	LP**	JJ-P110-BL	TW-1430-JZ	-		3,522.00
IW-110-40-AN		40'	NG*	JJ-P110-BN	TW-1040-JZ	-		3,874.00
IW-110-40-AL		40'	LP**	JJ-P110-BL	TW-1040-JZ	-		3,874.00
IW-110-50-AN		50'	NG*	JJ-P110-BN	TW-F030-JZ	TW-0020-JZ		4,336.00
IW-110-50-AL		50'	LP**	JJ-P110-BL	TW-F030-JZ	TW-0020-JZ		4,336.00
IW-130-30-AN	125,000	30'	NG Only	JJ-P130-BN	TW-1430-JZ	-		3,522.00
IW-130-40-AN		40'	NG*	JJ-P130-BN	TW-1040-JZ	-		3,874.00
IW-130-50-AN		50'	NG*	JJ-P130-BN	TW-F030-JZ	TW-0020-JZ		4,336.00
IW-155-40-AN	150,000	40'	NG*	JJ-P155-BN	TW-1040-JZ	-		3,960.00
IW-155-50-AN		50'	NG*	JJ-P155-BN	TW-F030-JZ	TW-0020-JZ		4,421.00
IW-155-60-AN		60'	NG*	JJ-P155-BN	TW-F030-JZ	TW-0030-JZ		4,739.00
IW-175-50-AL	175,000	50'	LP**	JJ-P175-BL	TW-1030-JZ	TW-0020-JZ		4,716.00
IW-175-50-AN		50'	NG*	JJ-P175-BN	TW-1030-JZ	TW-0020-JZ		4,716.00
IW-175-60-AL		60'	LP**	JJ-P175-BL	TW-1030-JZ	TW-0030-JZ		5,035.00
IW-175-60-AN		60'	NG*	JJ-P175-BN	TW-1030-JZ	TW-0030-JZ		5,035.00
IW-175-70-AN		70'	NG Only	JJ-P175-BN	TW-1030-JZ	TW-0040-JZ		5,372.00
IW-200-50-AN	200,000	50'	NG Only	JJ-P200-BN	TW-1030-JZ	TW-0020-JZ		4,716.00
IW-200-60-AL		60'	LP**	JJ-P200-BL	TW-1030-JZ	TW-0030-JZ		5,035.00
IW-200-60-AN		60'	NG*	JJ-P200-BN	TW-1030-JZ	TW-0030-JZ		5,035.00
IW-200-70-AL		70'	LP**	JJ-P200-BL	TW-1030-JZ	TW-0040-JZ		5,372.00
IW-200-70-AN		70'	NG*	JJ-P200-BN	TW-1030-JZ	TW-0040-JZ		5,372.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent]. Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually

Burner Kits: IW Series - Stainless Steel Housing

- Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-P045-BN	\$ 2,252.00
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-P060-BN	2,252.00
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-P080-BN	2,252.00
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-P110-BN	2,252.00
110,000 Btuh LP **	30', 40', 50'	LP**	1/2" x 24"	JJ-P110-BL	2,252.00
125,000 Btuh	30'	N.G. Only	1/2" x 24"	JJ-P130-BN	2,252.00
125,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-P130-BN	2,252.00
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-P155-BN	2,336.00
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-P175-BN	2,420.00
175,000 Btuh LP **	50', 60'	LP**	3/4" X 36"	JJ-P175-BL	2,420.00
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-P200-BN	2,420.00
200,000 Btuh LP **	60', 70'	LP**	3/4" X 36"	JJ-P200-BL	2,420.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Aluminized Steel Tube Kits: IW Series

- Can be ordered individually

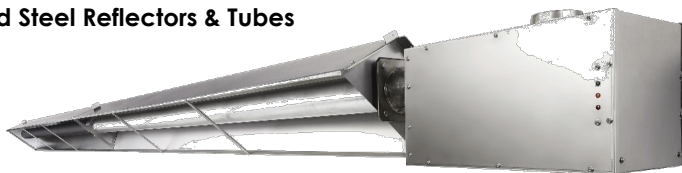
ALL Tubes are Aluminized Steel Swaged, Aluminized Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s]

<u>Stand-Alone Tube Kits [do not require any additional Tube Kit]</u>		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$ 965.00
30': 60/80/110/125,000	Flanged aluminized steel tube + 2 emissive coated aluminized tubes: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TW-1430-JZ	1,271.00
40': 80/110/125/150,000	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ	1,622.00
<u>Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]</u>			
30': 110/125/150,000	Aluminized steel: Flanged tube + 2 emissive coated tubes: Turbulator 2 ft	TW-F030-JZ	1,235.00
30': 175/200,000	Flanged stainless tube + 1 aluminized steel tube + 1 emissive coated aluminized tube: Turbulator 10 ft	TW-1030-JZ	1,449.00
<u>Secondary Tube Kits [needed with above Primary Kits to make 50', 60' & 70' heaters]</u>			
20'	Two emissive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ	849.00
30'	Three emissive coated aluminized tubes [makes 60' heater with either 30' primary]	TW-0030-JZ	1,168.00
40'	Four emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ	1,505.00
10'	One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.	TW-1010-JZ	525.00

Two-Stage IW2 Series

PATIO, OUTDOOR, & WASH BAY

- Stainless Steel Water Tight Burner Housing
- Aluminized Steel Reflectors & Tubes



STW-JZ FEATURES:

- 24V or Line Voltage Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened 4" Combustion Air Collar and Intake Wall Hood
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 48 & 49

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
IW2-80-20-AN	78/58,000	20'	NG*	JJ-TP08-BN	TW-1420-JZ	-	\$ 3,371.00
IW2-80-30-AN		30'	NG*	JJ-TP08-BN	TW-1430-JZ	-	3,677.00
IW2-110-30-AN	110/80,000	30'	NG*	JJ-TP11-BN	TW-1430-JZ	-	3,677.00
IW2-110-30-AL	108/70,000	30'	LP**	JJ-TP11-BL	TW-1430-JZ	-	3,677.00
IW2-110-40-AN		40'	NG*	JJ-TP11-BN	TW-1040-JZ	-	4,028.00
IW2-110-40-AL		40'	LP**	JJ-TP11-BL	TW-1040-JZ	-	4,028.00
IW2-130-30-AN	120/85,000	30'	NG Only	JJ-TP13-BN	TW-1430-JZ	-	3,677.00
IW2-130-40-AN		40'	NG*	JJ-TP13-BN	TW-1040-JZ	-	4,028.00
IW2-155-40-AN	150/110,000	40'	NG*	JJ-TP15-BN	TW-1040-JZ	-	4,131.00
IW2-155-50-AN		50'	NG*	JJ-TP15-BN	TW-F030-JZ	TW-0020-JZ	4,593.00
175 & 200 Models not suitable for Patio application							
IW2-175-50-AN	162/115,000	50'	NG Only	JJ-TP17-BN	TW-1030-JZ	TW-0020-JZ	\$ 4,874.00
IW2-175-60-AN		60'	NG Only	JJ-TP17-BN	TW-1030-JZ	TW-0030-JZ	5,195.00
IW2-200-50-AN	195/140,000	50'	NG Only	JJ-TP20-BN	TW-1030-JZ	TW-0020-JZ	4,874.00
IW2-200-60-AN		60'	NG Only	JJ-TP20-BN	TW-1030-JZ	TW-0030-JZ	5,195.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

Order by Complete System: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below are ordered individually

Burner Kits: IW2 2-Stage Series - Order individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: STAINLESS STEEL HOUSING, FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>MODEL</u>	<u>ACTUAL CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>		<u>LIST PRICE</u>
80/60	78 / 58,000	20', 30'	N.G.*	1/2" x 24"	JJ-TP08-BN	\$	2,406.00
110/75	110 / 80,000	30', 40'	N.G.*	1/2" x 24"	JJ-TP11-BN		2,406.00
	108 / 70,000 L.P.**	30', 40'	L.P.**	1/2" x 24"	JJ-TP11-BL		2,406.00
130/90	120 / 85,000	30'	N.G. Only	1/2" x 24"	JJ-TP13-BN		2,406.00
	120 / 85,000	40'	N.G.*	1/2" x 24"	JJ-TP13-BN		2,406.00
155/110	150 / 110,000	40', 50'	N.G.*	3/4" X 36"	JJ-TP15-BN		2,509.00
175/125	162 / 115,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TP17-BN		2,579.00
200/140	195 / 140,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TP20-BN		2,579.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

** Burner can be ordered LP see notes page 61

Aluminized Steel Tube Kits: IW2 & IW Series

ALL Tubes are Aluminized Steel Swaged, Aluminized Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s]

<u>Stand-Alone Tube Kits [do not require any additional Tube Kit]</u>		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$ 965.00
30': 60/80/110/125,000	Flanged aluminized steel tube + 2 emissive coated aluminized tubes: Turbulators 5 ft + 8 ft [5 ft turbulator removed in field for 60 & 80,000]	TW-1430-JZ	1,271.00
40': 80/110/125/150,000	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ	1,622.00

Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]

30': 110/125/150,000	Aluminized steel: Flanged tube + 2 emissive coated tubes: No Turbulator	TW-F030-JZ	1,235.00
30': 175/200,000	Flanged stainless tube + 2 emissive coated aluminized tubes: Turbulator 10 ft	TW-1030-JZ	1,449.00

Secondary Tube Kits [needed for above Primary Kits to make 50', 60' & 70' heaters]

20'	Two emissive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ	849.00
30'	Three emissive coated aluminized tubes [makes 60' heater with either 30' primary]	TW-0030-JZ	1,168.00
40'	Four emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ	1,505.00
10'	One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.	TW-1010-JZ	525.00



Single Stage IWS Series

HARSH ENVIRONMENT, PATIO*, OUTDOOR, & WASH BAYS

- Stainless Steel Water Tight Burner Cabinet
- Stainless Steel Tubes & Reflectors

IW2 FEATURES:

- Stainless Steel Burner Housing
- 24V or Line Voltage Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened 4" Combustion Air Collar and Intake Wall Hood
- Whisper Quiet Ceramic Burner
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Emissive Coated Radiant Tubes
- Flexible Gas Connector included
- Factory Mounted Igniter

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 48 & 49

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
IWS-45-20-AN	45,000	20'	NG*	JJ-P045-BN	TW-1420-JZ-2	-	\$ 4,578.00
IWS-60-30-AN	60,000	30'	NG*	JJ-P060-BN	TW-1430-JZ-2	-	5,455.00
IWS-80-30-AN	80,000	30'	NG*	JJ-P080-BN	TW-1430-JZ-2	-	5,455.00
IWS-80-40-AN		40'		JJ-P080-BN	TW-1040-JZ-2	-	6,334.00
IWS-110-40-AN	110,000	40'	NG*	JJ-P110-BN	TW-1040-JZ-2	-	6,334.00
IWS-110-40-AL		40'	LP**	JJ-P110-BL	TW-1040-JZ-2	-	6,334.00
IWS-110-50-AN		50'	NG*	JJ-P110-BN	TW-F030-JZ-2	TW-0020-JZ-2	7,489.00
IWS-110-50-AL		50'	LP**	JJ-P110-BL	TW-F030-JZ-2	TW-0020-JZ-2	7,489.00
IWS-130-40-AN	125,000	40'	NG*	JJ-P130-BN	TW-1040-JZ-2	-	6,334.00
IWS-130-50-AN		50'		JJ-P130-BN	TW-F030-JZ-2	TW-0020-JZ-2	7,489.00
IWS-155-50-AN	150,000	50'	NG*	JJ-P155-BN	TW-F030-JZ-2	TW-0020-JZ-2	7,574.00
IWS-155-60-AN		60'		JJ-P155-BN	TW-F030-JZ-2	TW-0030-JZ-2	8,453.00
IWS-175-60-AL	175,000	60'	LP**	JJ-P175-BL	TW-1030-JZ-2	TW-0030-JZ-2	8,536.00
IWS-175-60-AN		60'	NG*	JJ-P175-BN	TW-1030-JZ-2	TW-0030-JZ-2	8,536.00
IWS-175-70-AN		70'	NG* Only	JJ-P175-BN	TW-1030-JZ-2	TW-0040-JZ-2	9,414.00
IWS-200-60-AL	200,000	60'	LP**	JJ-P200-BL	TW-1030-JZ-2	TW-0030-JZ-2	8,536.00
IWS-200-60-AN		60'	NG*	JJ-P200-BN	TW-1030-JZ-2	TW-0030-JZ-2	8,536.00
IWS-200-70-AL		70'	LP**	JJ-P200-BL	TW-1030-JZ-2	TW-0040-JZ-2	9,414.00
IWS-200-70-AN		70'	NG*	JJ-P200-BN	TW-1030-JZ-2	TW-0040-JZ-2	9,414.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

HIGH ALTITUDE APPLICATION: Above 4,500 ft Reduce Total System Length by 20 ft [Total System = Air Duct + Tube + Vent].
Refer to manual for model details and orifice chart.

ORDERING TUBE HEATERS:

- n **Order by Complete System: Order Kit Model # on previous page ... or**
- n **Order by Burner and/or Tube Kits: Part #'s listed below can be ordered individually**

Burner Kits: IW Burner Kits - Stainless Steel Housing for IWS Series Systems

- Can be ordered individually

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>	<u>LIST PRICE</u>
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-P045-BN	\$ 2,252.00
60,000 Btuh	30'	N.G.*	1/2" x 24"	JJ-P060-BN	2,252.00
80,000 Btuh	30', 40'	N.G.*	1/2" x 24"	JJ-P080-BN	2,252.00
110,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-P110-BN	2,252.00
110,000 Btuh LP **	40', 50'	L.P.**	1/2" x 24"	JJ-P110-BL	2,252.00
125,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-P130-BN	2,252.00
150,000 Btuh	50', 60'	N.G.*	3/4" X 36"	JJ-P155-BN	2,336.00
175,000 Btuh	60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-P175-BN	2,420.00
175,000 Btuh LP **	60'	L.P.**	3/4" X 36"	JJ-P175-BL	2,420.00
200,000 Btuh	60', 70'	N.G.*	3/4" X 36"	JJ-P200-BN	2,420.00
200,000 Btuh LP **	60', 70'	L.P.**	3/4" X 36"	JJ-P200-BL	2,420.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

Stainless Steel Tube Kits: for IWS Series Systems

- Can be ordered individually

Include Stainless Swaged Tubes, Stainless Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

Stand-Alone Tube Kits [do not require any additional Tube Kit]

		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
20': 45,000	Stainless steel Flanged tube + 1 stainless steel tube: Turbulators 4 ft + 8 ft	TW-1420-JZ-2	\$ 2,327.00
30': 60,000/80,000	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 8 ft	TW-1430-JZ-2	3,207.00
40': 80/110/125,000	Stainless steel Flanged tube + 3 stainless steel tubes: Turbulators 2 ft + 10 ft	TW-1040-JZ-2	4,082.00

Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]

30': 110/125/150,000	Stainless steel Flanged tube + 2 stainless steel tubes: No Turbulator	TW-F030-JZ-2	3,207.00
30': 175/200,000	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 10 ft	TW-1030-JZ-2	3,207.00

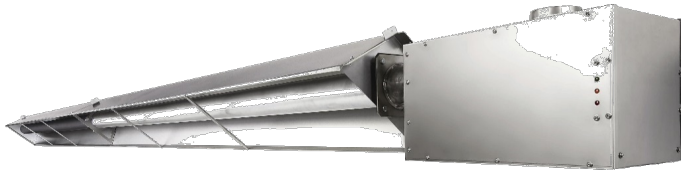
Secondary Tube Kits [needed with above Primary Kits to make 50', 60' & 70' heaters]

20'	Two stainless steel tubes [makes 50' heater with TW-F030-JZ-2 primary] 50 ft systems for inputs 110,000, 125,000, & 150,000 only	TW-0020-JZ-2	2,034.00
30'	Three stainless steel tubes [makes 60' heater with either 30' primary]	TW-0030-JZ-2	2,911.00
40'	Four stainless steel tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ-2	3,790.00
10'	One stainless steel tube, reflector, reflector braces, hanger, tube coupler Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.	TW-1010-JZ-2	1,156.00

Two Stage IW2S Series

PATIO, OUTDOOR, & WASH BAYS

- Stainless Steel Water Tight Burner Cabinet
- ALL Stainless Steel Tube & Reflector System



IWS2 FEATURES:

- All stainless steel construction
- 24V or Line Voltage Thermostat Ready
- Status Indicator Lights
- Power Cord with Plug
- Birdscreened 4" Combustion Air Collar and Intake Wall Hood
- 'Focus Shield' Reflector & End Caps for Premier IR Heat Output
- Flexible Gas Connector included

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 48 & 49

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	FUEL	SYSTEM COMPONENT KITS [individual cartons]			LIST PRICE
				Burner Kit #	Tube Kit 1 #	Tube Kit 2 #	
IW2S-80-30-AN	78/58,000	30'	NG*	JJ-TP08-BN	TW-1430-JZ-2	-	\$ 5,613.00
IW2S-110-40-AN	110/80,000	40'	NG*	JJ-TP11-BN	TW-1040-JZ-2	-	6,488.00
IW2S-110-40-AL	108/70,000	40'	LP**	JJ-TP11-BL	TW-1040-JZ-2	-	6,488.00
IW2S-130-40-AN	120/85,000	40'	NG*	JJ-TP13-BN	TW-1040-JZ-2	-	6,488.00
IW2S-155-50-AN	150/110,000	50'	NG*	JJ-TP15-BN	TW-F030-JZ-2	TW-0020-JZ-2	7,750.00
175 & 200 Models not suitable for Patio application							
IW2S-175-60-AN	162/115,000	60'	NG Only	JJ-TP17-BN	TW-1030-JZ-2	TW-0030-JZ-2	8,697.00
IW2S-200-60-AN	195/140,000	60'	NG Only	JJ-TP20-BN	TW-1030-JZ-2	TW-0030-JZ-2	8,697.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

A Tube Heater System ships in 2 or 3 individual cartons with a Burner Kit + Tube Kit[s] required for heater length

Burner Kits, and tube kits are packaged separately and clearly labelled for ease of assembling orders and shipment

ORDERING TUBE HEATERS:

Order by Complete System Kit Numbers: Order Kit Model # on previous page ... or

Order by Burner and/or Tube Kits: Part #'s listed below are ordered individually

Burner Kits: IW2 2-Stage Burner Kits for IW2S Series Systems

All burner assemblies operate on line voltage [120VAC], but are factory ready for 24Vac Thermostat control

BURNER KIT INCLUDES: STAINLESS STEEL HOUSING, FLEXIBLE GAS CONNECTOR, STATUS INDICATOR LIGHTS, ELECTRICAL CORD & PLUG, MOUNTED IGNITER, BIRDSCREENED 4" DIAMETER AIR INTAKE ADAPTER ON BLOWER.

<u>MODEL</u>	<u>ACTUAL CAPACITY</u>	<u>MOUNTS TO TUBE LENGTHS</u>	<u>FUEL TYPE IN PRODUCTION</u>	<u>FLEX GAS CONNECTOR</u>	<u>PART #</u>		<u>LIST PRICE</u>
80/60	78 / 58,000	30'	N.G.*	1/2" x 24"	JJ-TP08-BN	\$	2,406.00
110/75	110 / 80,000	40'	N.G.*	1/2" x 24"	JJ-TP11-BN		2,406.00
110/75	108 / 70,000 L.P.**	40'	L.P.**	1/2" x 24"	JJ-TP11-BL		2,406.00
130/90	120 / 85,000	40'	N.G.*	1/2" x 24"	JJ-TP13-BN		2,406.00
155/110	150 / 110,000	50'	N.G.*	3/4" X 36"	JJ-TP15-BN		2,509.00
175/125	162 / 115,000	60'	N.G. Only	3/4" X 36"	JJ-TP17-BN		2,579.00
200/140	195 / 140,000	60'	N.G. Only	3/4" X 36"	JJ-TP20-BN		2,579.00

* Field conversion kits required for LP fuel are listed on page 61; ** Burner can be ordered LP see notes page 61

** Burner can be ordered LP see notes page 61

Stainless Steel Tube Kits: For IW2S Series Systems

- Ordered individually

Includes Stainless Swaged Tubes, Stainless Reflectors, End Caps, Hangers, Tube Couplers and Turbulator[s] as required

<u>Stand-Alone Tube Kits [do not require any additional Tube Kit]</u>		<u>TUBE KIT #</u>	<u>LIST PRICE</u>
30': 80/60	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 8 ft	TW-1430-JZ-2	3,207.00
40': 110/75, 130/90	Stainless steel Flanged tube + 3 stainless steel tubes: Turbulators 2 ft + 10 ft	TW-1040-JZ-2	4,082.00
<u>Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]</u>			
30': 155/110	Stainless steel Flanged tube + 2 stainless steel tubes: No Turbulator	TW-F030-JZ-2	3,207.00
30': 175/125, 200/140	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 10 ft	TW-1030-JZ-2	3,207.00
<u>Secondary Tube Kits [needed with above Primary Kits to make 50' & 60' heaters]</u>			
20'	Two stainless steel tubes [makes 50' heater with TW-F030-JZ-2 Primary Kit] 50 ft systems for inputs 110,000, 125,000, & 150,000 only	TW-0020-JZ-2	2,034.00
30'	Three stainless steel tubes [makes 60' heater with either 30' Primary Kit]	TW-0030-JZ-2	2,911.00
10'	One stainless steel tube, reflector, reflector braces, hanger, tube coupler	TW-1010-JZ-2	1,156.00

Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.

OPTIONAL ACCESSORIES - Page 1 of 2

IWP, IW & IW2 TUBE HEATERS

Wet Environment & Outdoor Temperature Control:

NEMA 4X Rated Thermostat



<u>PART #</u>	<u>LIST PRICE</u>
JS-0570-XX	\$ 153.00

NOTE: Heater Suspension items are not available from Infrasave in stainless steel

Hanging Chain:

#2 Lion Chain - **115 lb work load** - 200 ft roll



<u>PART #</u>	<u>LIST PRICE</u>
JL-0800-XX	\$ 157.00

Quantity of Chain
required:

IW, IWP Series heater = $[(\text{heater tube length}/10) + 2] \times \text{length of chain at each suspension point}$
ie: IWP 40 ft heater 3 ft below structural support = $[(40/10) + 2] \times 3 = 18$ ft of chain

Safety Snap Hooks - 2"



Package of 24	JL-0800-SH	64.00
Package of 100	JL-0800-SH-B	197.00

'S' Hooks - 1 7/8" - Package of 25

JL-0798-SH	37.00
------------	-------

Quantity of 'Snap'
or 'S' Hooks:

IW, IWP Series quantity required = $[(\text{tube length}/10) \times 2] + 4$: ie: SPW-JZ x 40 ft = $[(40/10) \times 2] + 4 = 12$ hooks

CLEARANCE TO COMBUSTIBLES SIGN

Metal sign - 18" x 6"
- 3/4" red lettering on white
background

WARNING

**MAINTAIN ____" CLEARANCE FROM
TUBE HEATER TO VEHICLES
AND COMBUSTIBLE MATERIALS**

JL-0798-CS	59.00
------------	-------

Vent Options:



Horizontal / Wall Terminal*

Flue Vent Terminals:

4" horizontal [through wall]
6" horizontal

<u>PART #</u>	<u>LIST PRICE</u>
JA-0528-XX	\$ 41.00
JA-0529-XX	49.00

Vent Tee 4" X 4" X 6" - **Not Available in Stainless Steel**
[Two Couplers JA-0516-AA are optional]

Optional Couplers for Vent Tee:

4" x 8" Aluminized Steel Coupler with 2 x U-Bolts

[ADD TWO optional tube couplers JA-0516-AA or JA-0516-XX if desired for vent pipe connection to Tee]



JA-0514-XX	209.00
JA-0516-AA	67.00

HORIZONTAL VENTING: Use the 'Wall' termination cap by Infrasave, or use an approved 'High Wind' termination cap

VERTICAL VENTING: Use the termination cap for double walled pipe as supplied by the vent pipe manufacturer

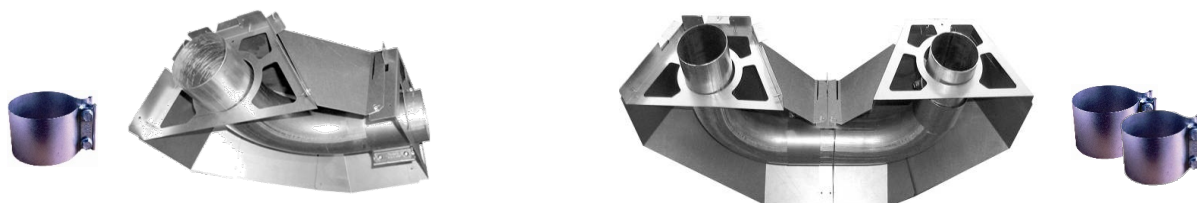
* Fits single wall vent pipe - field modification required to fit to double wall pipe

OPTIONAL ACCESSORIES - Page 2 of 2

IWP, IW & IW2 TUBE HEATERS

Modular Elbow Kit:

Note: Stainless Steel accessories have longer lead times



IW & IWP 90° Aluminized Steel Elbow & Reflector Cover Kit:

[Elbow can be installed right or left hand - Includes Coupler, Reflector Cover, Hanger Plate]

JS-0508-JZ \$ 255.00

IW & IWP 180° Elbow & Reflector Cover Kit: ORDER: TWO x 90° ELBOW KITS

Qty 2 x JS-0508-JZ 510.00

IW2: 90° Stainless Steel Elbow & Reflector Cover Kit: [Longer lead time]

JS-0508-JZ-2 662.00

For 180° Elbow Kits = Combine TWO JS-0508-JZ[-2] Kits as Required

Ü Reflector Angle Adapter - ONE REQUIRED AT EACH JUNCTURE of an angle change

JS-0504-JZ 25.00

NOTE: The elbow reflector cap must always be in the horizontal plane - cap cannot be angle mounted

The Reflector Angle Adapter is required for angle mounting a reflector section before or after an elbow

Or for mounting of a reflector section at a different angle relative to the other reflectors in the system.

Other Optional Accessories:

Decorative 'Tuxedo' Grille Kit - Matte Black Finish

Dress up your tube heater installations.

Ideal for: Patios

Retail areas

Showrooms



Matte black aluminum grille & aluminized steel framing secures with tabs to 'JZ' Series reflectors.

Decorative 'Tuxedo' Grille Kit - 10 ft - Matte Black Grille

Each 10 foot section

TG-0010-KT

\$ 573.00

Reflector Side Extension Extension

- IW & IWP models - 10" deep x 116" long c/w Qty 3 x 'S' hooks

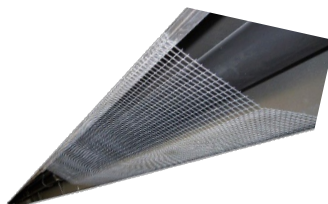
JS-0509-KT 76.00

Tube Protection Screen '-JZ' Tube Kit - 5 ft length

[1/2" x 1/2" galvanized screen]

[custom order: longer lead time]

[not available stainless steel]



JA-0780-XX

141.00

PATIO HEATER SELECTION GUIDELINES

Patio layouts and conditions differ widely and usually require a unique heating solution for each patio. Below are some guidelines to assist in the selection of heaters for your patio project. Infrasave offers design services for patio projects. Copy, complete and submit the form at the back of this price list.

General

- ✧ Gas fired infrared radiant heat is ideal for "spot comfort" applications like patios, waiting lines, and smoking areas.
- ✧ Besides temperature, wind-chill is the greatest opponent to comfort - any wind break will improve outdoor comfort.
- ✧ Heating customers from at least two sides is much more effective than heating from only one side
- ✧ If a project faces budget constraints, it is most effective to heat only a portion of a patio. Spreading too few heaters over a larger area will not satisfy customers nor the owner.
- ✧ Patio heating supplies customer seating in a welcomed surrounding more cost-effectively than any other renovation
- ✧ 24 volt control patio heater models can be centrally operated from a patio panel, or by remote control.

	High Intensity		Tube Heaters		Electric
	IO-100-SS	IO-210-SS	IWP	IW	EL/ELD
Open Patio Area	P	P			
Canopy / Roof Over	R	R	P	P	P
Enclosed Area	R	R	P	P	P
Coastal Salt-Air Location	P	P		P	
Perimeter Mount	P	P	P	P	P
Permanent Mount	P	P	P	P	P
Central Panel Control	P	P	P	P	P
Remote Hand Set Control	P	P	P	P	
Natural Gas or Propane	PRR	PRR	P	P	

R High Intensity approved for indoor and covered areas provided there is sufficient exhaust installed:
 _ National Fuel Gas Code (NFPA 54) requires 4 cfm for each 1,000 Btuh input
 RR Two Stage IO-152-SS available NG Only

IO-100 Series High Intensity Heaters

- Single-stage 35,000 and 50,000 Btuh: Natural Gas or Propane Gas; 2-Stage 50,000/36,500: Natural Gas Only
- 24V electrical supply & ignition - central or remote control; 2-Stage unit require switch gang controls listed on page 50
- Best suited to 'open' patios
- Available with Marine Grade Stainless Steel outer assembly
- Finishes: Black high temperature coated stainless steel [409] outer assembly - improves aesthetic and helps heater "disappear"
- [316] Marine Grade Stainless Steel for coastal areas or when stainless steel appearance desired

IO-210 Series High Intensity Heaters

- Best suited to 'open' patios
- 25,000 and 35,000 Btuh Natural Gas or Propane Gas
- 24V electrical supply & ignition - central or remote control
- All models have a black emissive coated [316] marine grade S/S lens - improves performance and helps heater "disappear"

Patio Tube Heaters - IW, IW2 & IWP, IWP2

- 40,000 to 150,000 Btuh, 10 ft to 40 ft tube length
- 120V required for burner, but has 24V ignition for central or remote control
- Best suited for covered or enclosed areas - combustion products can be direct vented to beyond the area being heated
- IWP** - Powder coated burner housing for standard covered or enclosed patio application
- IW** - Stainless steel burner housing for harsh or salt-air environments

ES / ESD Electric heaters

- Instant comfort at the flip of a switch
- Enclosed or covered patios
- 'Tight' spots
- Where long gas pipe runs are impractical



Marine Grade 316 Stainless Steel Finish



Black High Temperature Finish on Marine Grade 316 Stainless Steel Outer Cabinet

Outdoor IO-100 Series

<u>MODEL</u>	<u>INPUT</u>	<u>FINISH</u>	<u>GAS</u>	<u>PART #</u>	<u>LIST PRICE</u>
IO-135	35,000	Black High Temperature Coat on 316 Stainless	NG	IO-0135-NG	\$ 2,563.00
			LP	IO-0135-LP	2,563.00
IO-150	50,000	Black High Temperature Coat on 316 Stainless	NG	IO-0150-NG	2,772.00
			LP	IO-0150-LP	2,772.00
IO-135-SS	35,000	Marine Grade Stainless Steel [316]	NG	IO-0135-SN	2,563.00
			LP	IO-0135-SL	2,563.00
IO-150-SS	50,000	Marine Grade Stainless Steel [316]	NG	IO-0150-SN	2,772.00
			LP	IO-0150-SL	2,772.00

2-Stage ~ 50,000 Btuh High Stage; 36,500 Btuh Low Stage - Natural Gas Only

IO-152	50/36,499	2-Stage - Black High Temp. Coated 316 S/S	NG	IO-0152-NG	\$ 3,049.00
IO-152-SS	50/36,500	2-Stage - Marine Grade Stainless Steel	NG	IO-0152-SN	3,049.00

IO-100 Faceplate (NEW!)

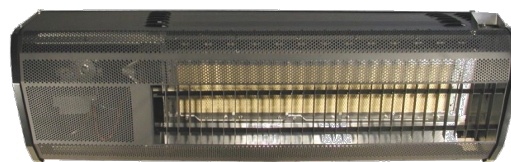


IO-100 Faceplate Assembly Kit (316 S/S)
 IO-100 Faceplate Assembly Kit (316 S/S) Painted-Black Finish

<u>PART #</u>	<u>LIST PRICE</u>
JJ-2100-FP-S	\$ 229.00
JJ-2100-FP-SP	229.00

Outdoor IO-210 SERIES

Marine Grade Stainless Steel Housing with Black Emissive Coating
 - Helps preserve appearance
 - Increases IR output



<u>MODEL</u>	<u>INPUT</u>	<u>FINISH - Including Lens Cover</u>	<u>Minimum Mounting Height</u>	<u>PART #</u>	<u>LIST PRICE</u>
IO 212	23,000	Marine Grade S/S BLACK - High Temperature	8 ft	IO-0212-NG	\$ 2,836.00
				IO-0212-LP	2,836.00
IO 213	35,000	Marine Grade S/S BLACK - High Temperature	8 ft 6 in	IO-0213-NG	3,309.00
				IO-0213-LP	3,309.00
2-Stage ~ 50,000 Btuh High Stage; 35,000 Btuh Low Stage - Natural Gas Only					
IO 252	50/35000	Marine Grade S/S BLACK - High Temperature	9 ft	IO-0252-NG	\$ 3,339.00

See 2-Stage Illuminated Switch control options previous page

IO-100 & IO-210 Series Gas Connection

Black Finish Stainless Steel Flexible Gas Connector 3/8" x 24"
 Flexible Gas Connector 1/2" x 24"

JL-0771-OD \$ 69.00
 JL-0771-XX 53.00

Controls & Accessories for IO-100 & IO-210 Systems:

Mounting Options: Next page

Controls and 24 VAC guidelines pages 54 - 55

Gas Conversion Kits for IO-100 & IO-210 Series: See Page 10

MOUNTING OPTIONS

IO-100 & IO-210 SERIES HEATERS

Wall Mount Brackets: Mount heater at 30° angle, and combustible clearance from wall

PART #

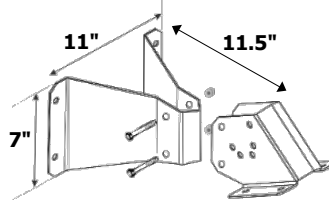
LIST PRICE

Wall Mount Bracket: IO-100 Series Models & Model IO-252:

Mounts heater at 11.5" from wall @ 30°

~ Provides combustible clearance from wall surface

~ 11" x 7" minimum mounting surface footprint



Painted Steel	JP-2100-MB	\$	238.00
Stainless Steel	JP-2100-MB-SS		291.00

Wall Mount Bracket: Models IO-212, IO-213 Only:

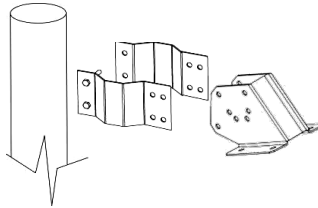
Mounts heater at combustible clearance from wall @ 30°



Painted Steel	JP-2300-MB	\$	238.00
Stainless Steel	JP-2300-MB-SS		252.00

4" Pole Mount Assembly: IO-100 & IO-210 Series

Pole Clamp + Heater Bracket

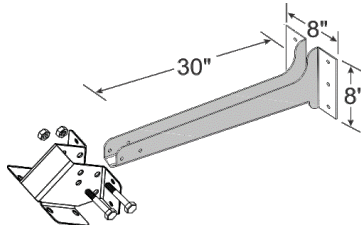


Painted Steel	JP-2300-PK	\$	225.00
Stainless Steel	JP-2300-PK-SS		239.00

Wall Mount Arm Kit IO-100 & IO-210 Series

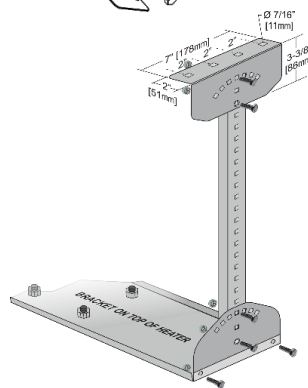
Locates heater 30 inches from mounting surface at 30° Angle

Hardware needed for fastening to structure is field supplied



Painted Steel	JP-2300-MK	\$	351.00
Stainless Steel	JP-2300-MK-SS		485.00

Ceiling Mount Kit IO-100 & IO-210 Series



Ceiling Mount Kit is Stainless Steel construction ONLY	JP-2100-CB-K	\$	187.00
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One end shown only - two brackets are supplied

Remote & patioPanel Controls ~ See Next Page for information, sizes & pricing ~

Remote Control of Patio Systems

Remote Receiver, Hand Set & Wireless Keypad Options

ORDER ITEMS SEPARATELY

1) Remote Control Receiver Kit field installs in burner: **REQUIRED**

- Order one for each heater - High Intensity or Tube type
- Includes receiver, wires, instructions

24Vac powered



JP-1236-RK \$ 249.00

2) Hand Set Control [four On/Off buttons]: **REQUIRED**

- Order one for every four zones: a Zone is 1 or more heaters
- Control up to 4 individual heaters or up to 4 zones with multiple heaters in each zone
- At least one hand set is always required for master programming of receiver or Keypad
- Infrasave recommends ordering two hand sets for each control area [4 heaters or zones] so that a back-up hand-set is always available if one is misplaced....
- OR - order one master hand set and Keypad Transmitter [below] for each 4 zones

JP-1236-HS 131.00

3) Wireless Remote Control Keypad Transmitter: **OPTIONAL**

JP-1236-KT 174.00

[Note: Above Hand Set Control is required for Master Code programming]

- Control up to four patio zones:
 - 3 Zones with unique 4 digit PIN
 - Plus 1 zone with direct push button
- Weather resistant: Outdoor or indoor installation
- No more misplaced hand sets



Central Panel Control of Patio Systems

Single HEATER per each panel switch recommended for best comfort control

- Panel switches have 24 volt capacity

24 Volt SYSTEM TRANSFORMER NOT INCLUDED - SEE NEXT PAGE for SIZES & PRICING.

<u>MODEL</u>	<u>HEATERS</u>	<u>PART #</u>		<u>LIST PRICE</u>
PCP-4	Up To 4	JM-0204-NT	\$	419.00
PCP-8	Up To 8	JM-0208-NT	\$	524.00
PCP-12	Up To 12	JM-0212-NT	\$	608.00



24 Volt Control Guidelines

IO-100 & IO-210 Series

~ High Intensity Heaters

- Size 24V transformer 40VA for 1st heater + 20 VA for each additional heater
- Patio Panel switches are 24 volt capacity
- Patio Panel: Size transformer for ALL heaters controlled by each individual panel
- for best comfort control, assign one heater to each Patio Panel switch
- At most two IO-210 heaters can be assigned to each Patio Panel switch
- Remote Control: Size transformer[s] for ALL heaters installed on the patio

IWP(2) & IW(2) Series

~ Tube Heaters

- 120 V supply is ALWAYS required to the burner to power the blower and the individual transformer in each burner assembly
- Patio Panel: 24V power to the panel switch is supplied from the transformer within the heater's burner
- ONLY ONE tube heater can be controlled by each Patio Panel switch
- Remote Control: The Burner is ready for installation of Remote Control Receiver Kit: JP-1236-RK

2-Stage Controls: Illuminated Switch Gang

Required for Control of 2-Stage Heater Systems Only: Models IO-152 & IO-252

Model IO-152; Model IO-252

- Brushed Stainless Cover Plate; Factory Wired; Electrical Box Supplied; 24 Vac Capacity [Transformer field supplied]



JM-0201-TS



JM-0202-TS



JM-0203-TS

Switch gangs have special
"Off, On, On" sequence
 required for heater operation

*Do Not Use a switch with
 "On, Off, On" sequence*

<u>24VAC SWITCH</u>	<u>CONTROL</u>	<u>PART #</u>		<u>LIST PRICE</u>
Single Switch Gang	1 Zone of 1 To 4 Heaters	JM-0201-TS	\$	97.00
Double Switch Gang	2 Zones: 2 To 8 Heaters	JM-0202-TS		173.00
Triple Switch Gang	3 Zones: 3 To 12 Heaters	JM-0203-TS		249.00

ZONE TRANSFORMERS 24Vac

For All IO-100 & IO-210 Series Models

A Patio Panel requires a 24 volt Transformer to power the panel switches, and in turn power the heater[s]. The transformer is sized to suit the total number of heaters being controlled by the panel - see below for sizing guide.

IO-100 & IO-210 Series heaters require a 24 volt transformer[s] sized to suit the total number of heaters installed - see below for sizing guide.

Refer to previous page for guidelines on 24 Volt control of IO-100 & IO-210 heating systems

24V TRANSFORMER SIZING GUIDE: IO-100 & IO-210 Series heaters

- On a single heater use one 40 VA transformer.
- On a zone with multiple heaters, use a transformer sized at 40 VA per first heater and 20 VA per each additional heater.

24V TRANSFORMERS

<u>SIZE</u>	<u>HEATER QTY</u>		<u>PART #</u>		<u>LIST PRICE</u>
40 VA Transformer	1	4"x 4" Electrical Box Mount	JL-0776-XX	\$	113.00
100 VA Transformer	Up to 4	Closed Type	JL-0778-XX		209.00
150 VA Transformer	Up to 6	Closed Type	JL-0779-XX		252.00
200 VA Transformer	Up to 9	Closed Type	JL-0780-XX		288.00
250 VA Transformer	Up to 11	Closed Type	JL-0781-XX		314.00
350 VA Transformer	Up to 16	Closed Type	JL-0781-AA		367.00

See INSTALLATION MANUAL to determine gauge of distribution wire. [minimum 16 gauge].

Specific information on each of the Outdoor Tube Heater Series is in this Price List on pages as noted below.

Models: P40U-IP, -IW

See Page 15 for information on the P40U-IP / -IW



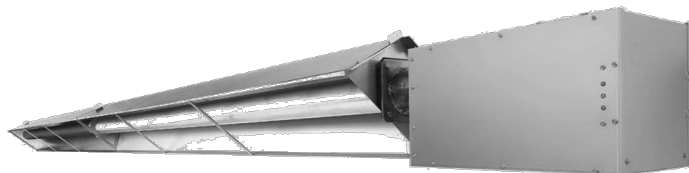
Factory assembled heater
 Installs directly from carton
 Compact 10 ft 3 inch total length design

Model P40U-P/-W: Weather tight burner housing

Please note that larger input models 175,000 and 200,000 Btuh for the following Tube Series are not suitable for Patio application

Models IWP & IWP2

See Pages 36 to 39 for information on the IWP & IWP2



Powder Coated Cabinet.
Economical heating for covered or enclosed patios

Model IWP shown with optional Tuxedo Grille

Model IW, IW2 & IWS, IW2S

See Pages 40 to 43 for information on the IW & IW2

See Pages 44 to 47 for information on the IWS & IW2S ALL Stainless Steel Series



STAINLESS STEEL BURNER CABINET
BEST for Salt-Air Coastal Regions

Model IW shown with optional Tuxedo Grille

Accessories for Outdoor Tube Heaters are listed on Pages 48 & 49

**PARASOL STAINLESS STEEL
4000 SERIES
PORTABLE or FIXED MOUNT
FOR OUTDOOR PATIOS**

**4005-CB Portable
4SN5-CB Fixed Mount
Premier Commercial
Stainless Steel Finish**

38,000 Btuh Conical Burner
16% LESS FUEL USE than 45,000 Btuh heaters.
Fuel tank lasts longer
Labor saved with fewer tank changes

Conical burner has inner & outer radiant heat emitters:
Increases radiant heat output
Conical shape directs heat to patio patrons

Single piece 32" reflector

Battery electronic ignitor

Portable model has large 4" diameter wheels for easy portability
Housing for 20 lb tank [L.P. tank not included]

Three year commercial use warranty on burner

4005-CB*
Stainless Steel
Portable



4SN5-CB**
Stainless Steel
Fixed Mount



Portable 4005-CB* Stainless Steel Finish

<u>MODEL</u>	<u>FINISH</u>	<u>Gas Type</u>	<u>INPUT</u>	<u>ORDER PART #</u>	<u>LIST PRICE</u>
4005-CB*	Stainless Steel [304]	LP Gas Only	38,000 Btuh	PS-4005-CB	\$ 1,104.00

* Ships in two separate cartons: 1: Burner, post, tank cover, base
+ 2: Reflector JP-4070-CB

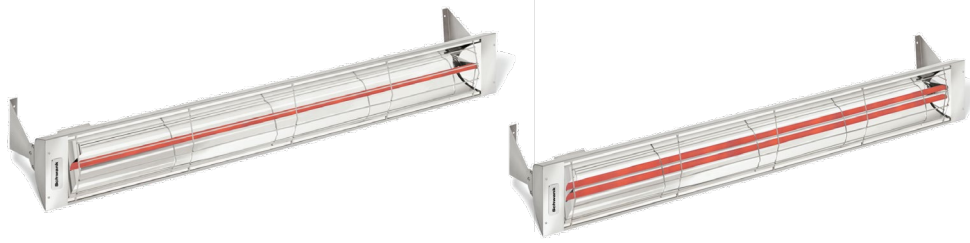
Fixed Mount 4SN5-CB Stainless Steel Finish - Order Heater as three component parts**

<u>MODEL</u>	<u>FINISH</u>	<u>FUEL TYPE</u>	<u>INPUT</u>	<u>ORDER PART #</u>	<u>LIST PRICE</u>
4SN5-CB**	Stainless Steel [304]	Nat. Gas Only	38,000 Btuh	PS-4SN5-CB	\$ 1,586.00

** Ships in three separate cartons: 1: Burner Head & Heater Base JP-4SN5-CB
+ 2: One Piece Post JP-4PST-SS
+ 3: Reflector JP-4070-CB

NOTE: No gas regulator is supplied with fixed mount heater. Gas pressure to be regulated at gas supply by installer.
Refer to installation manual for details.

32" Single Piece Replacement Reflector: Portable or Fixed Mount	JP-4070-CB	\$ 174.00
Base weight for 4005 portable heater	JP-4089-XX	43.00



Applications:

- Patios
- Sports venues
- Outdoor smoking areas
- Balcony/terrace
- Hobby shops
- Garage/workshop
- Warehouse facilities

ES/ESD electricSeries IR Heater
Mid-Wave Infrared for Instant Comfort
Single & Dual Bulb Models

Standard heaters are Stainless Steel Finish - Color Finish Options Available (see below)

Heaters greater than 1500 Watts are for "Commercial Use Only."

Do not use as a residential or household heater. Risk of fire.

Available in 500, 750, 1000, 1500, 2000, 2500, 3000, 4000, 5000, and 6000 Watts

<u>Model</u>	<u>Application</u>	<u>Capacity</u>	<u>Electrical</u>		<u>Part #</u>	<u>List Price</u>
			<u>Voltage</u>	<u>Amps</u>		
ES-519	Outdoor / Indoor **	500 Watts	120Vac	4.2	ES-0519-12	\$ 628.00
ES-719	Outdoor / Indoor **	750 Watts	120Vac	6.3	ES-0719-12	628.00
ES-1033	Outdoor / Indoor **	1000 Watts	120Vac	8.3	ES-1033-12	642.00
ES-1533	Outdoor / Indoor **	1500 Watts	120Vac	12.5	ES-1533-12	668.00
ES-1533	Outdoor / Indoor **	1500 Watts	208Vac	7	ES-1533-20	668.00
ES-1533	Outdoor / Indoor **	1500 Watts	240Vac	6.3	ES-1533-24	668.00
ES-2039	Outdoor / Indoor	2000 Watts	208Vac	10	ES-2039-20	693.00
ES-2039	Outdoor / Indoor	2000 Watts	240Vac	8.3	ES-2039-24	693.00
ES-2539	Outdoor / Indoor	2500 Watts	208Vac	12	ES-2539-20	713.00
ES-2539	Outdoor / Indoor	2500 Watts	240Vac	10.4	ES-2539-24	713.00
ESD-3033	Outdoor / Indoor	3000 Watts	208Vac	14	ES-3033-20	849.00
ESD-3033	Outdoor / Indoor	3000 Watts	240Vac	12.5	ES-3033-24	849.00
ES-3061	Outdoor / Indoor	3000 Watts	208Vac	14	ES-3061-20	930.00
ES-3061	Outdoor / Indoor	3000 Watts	240Vac	12.5	ES-3061-24	930.00
ESD-4039	Outdoor / Indoor	4000 Watts	208Vac	19	ES-4039-20	849.00
ESD-4039	Outdoor / Indoor	4000 Watts	240Vac	16.7	ES-4039-24	849.00
ES-4061	Outdoor / Indoor	4000 Watts	208Vac	19	ES-4061-20	930.00
ES-4061	Outdoor / Indoor	4000 Watts	240Vac	16.7	ES-4061-24	930.00
ESD-5039	Outdoor / Indoor	5000 Watts	208Vac	24	ES-5039-20	968.00
ESD-5039	Outdoor / Indoor	5000 Watts	240Vac	20.8	ES-5039-24	968.00
ESD-6061	Outdoor / Indoor	6000 Watts	208Vac	28.8	ES-6061-20	1,113.00
ESD-6061	Outdoor / Indoor	6000 Watts	240Vac	25	ES-6061-24	1,113.00

Note: 2000W to 6000W heaters are also available in *277V and *480V. Please contact your sales rep for information

** Typically recommended for indoor use due to the low wattage. Suitable for Residential application.

Custom Color Options:

A Heater is available in the following custom colors. Black, White, Beige, Mineral Bronze, Almond, Biscuit.

Please contact your sales rep for information on how to order colored heaters & frame kits.

JE-0500-	\$	103.00
JE-0520-	\$	103.00

Recessed Mounting Options:

33" recessed mount frame S/S	JE-0520-33	707.00
39" recessed mount frame S/S	JE-0520-39	707.00
61.25" recessed mount frame S/S	JE-0520-61	713.00



ON/OFF



2 STAGE



VARIABLE

Control Options:

Application

ON / OFF CONTROLS

Designed for use with single bulb 120volt heaters ONLY.

Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box
Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box
Single - Flush Mount c/w Weatherproof Cover
Dual - Flush Mount c/w Weatherproof Cover
Single - Surface Mount c/w Weatherproof Gang Box and Cover
Dual - Surface Mount c/w Weatherproof Gang Box and Cover

Voltage	Electrical		Part #	List Price
	Amps			
120v	15 Max	JM-4100-XX	\$	152.00
120v	15 Max	JM-4105-XX		256.00
120v	15 Max	JM-4110-XX		165.00
120v	15 Max	JM-4115-XX		296.00
120v	15 Max	JM-4120-XX		192.00
120v	15 Max	JM-4125-XX		311.00

ON / OFF CONTROLS

Designed for use with single bulb heaters 208-277volt ONLY.

Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box
Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box
Single - Flush Mount c/w Weatherproof Cover
Dual - Flush Mount c/w Weatherproof Cover
Single - Surface Mount c/w Weatherproof Gang Box and Cover
Dual - Surface Mount c/w Weatherproof Gang Box and Cover

208/240/277V	20 Max	JM-4400-XX	\$	152.00
208/240/277V	20 Max	JM-4405-XX		256.00
208/240/277V	20 Max	JM-4410-XX		165.00
208/240/277V	20 Max	JM-4415-XX		296.00
208/240/277V	20 Max	JM-4420-XX		192.00
208/240/277V	20 Max	JM-4425-XX		311.00

2 STAGE CONTROLS

Designed for use with dual bulb ESD heaters ONLY. (Ability to turn each bulb on and off independently).

Single Duplex - Flush Mount c/w S/S Wall Plate and Gang Box
Dual Duplex - Flush Mount c/w S/S Wall Plate and Deep Box
Single Duplex - Flush Mount c/w Weatherproof Cover
Dual Duplex - Flush Mount c/w Weatherproof Cover
Single Duplex - Surface Mount c/w Weatherproof Box and Cover
Dual Duplex - Surface Mount c/w Weatherproof Box and Cover

208/240/277V	20 Per switch	JM-4300-XX	\$	165.00
208/240/277V	20 Per switch	JM-4305-XX		271.00
208/240/277V	20 Per switch	JM-4310-XX		192.00
208/240/277V	20 Per switch	JM-4315-XX		311.00
208/240/277V	20 Per switch	JM-4320-XX		210.00
208/240/277V	20 Per switch	JM-4325-XX		336.00

VARIABLE CONTROLS

Designed for use with single bulb heaters up to 3000 watts ONLY (max 15 amps).

Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box
Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box
Single - Flush Mount c/w Weatherproof Cover
Dual - Flush Mount c/w Weatherproof Cover
Single - Surface Mount c/w Weatherproof Gang Box and Cover
Dual - Surface Mount c/w Weatherproof Gang Box and Cover

240V	15 Max	JM-4200-XX	\$	165.00
240V	15 Max	JM-4205-XX		271.00
240V	15 Max	JM-4210-XX		192.00
240V	15 Max	JM-4215-XX		311.00
240V	15 Max	JM-4220-XX		210.00
240V	15 Max	JM-4225-XX		336.00

Electric Heater - Electromechanical Relay Package

Schwank offers a wide range of custom control options in our industry to meet the needs of any residential or commercial application. The Electromechanical Relay (EMR) package allows you to install and control your heaters using any 24/120V thermostat or our TC Plus controller. It also provide you the capability to control one or more heaters in a specified zone (Zone Heating).

This package includes NEMA 4 rated enclosure kit and appropriate relay depending on the number of heater amp draw

NOTE: All electrical parts will be shipped loose and the wiring should be completed in the field by an authorized electrician/contractor. It should be approved by the local jurisdiction

		<u>Part #</u>	<u>List Price</u>
Control Panel Enclosure Kit - NEMA 4 RATED Kit Includes 1 x Enclosure - NEMA 4 RATED 1 x Transformer - 40VA 1 x Terminal Block		JM-4000-XX	692.00
		JM-4005-XX	
		JA-0777-XX	
		JM-0455-DD	
Electromechanical Relays (EMR) 18 Amp Relay - 18A/600VAC/24VAC 32 Amp Relay - 32A/600VAC/24VAC 50 Amp Relay - 50A/600VAC/24VAC 75 Amp Relay - 75A/600VAC/24VAC		JM-4010-XX	153.00
		JM-4015-XX	243.00
		JM-4020-XX	439.00
		JM-4025-XX	555.00

NOTES:

Each relay can handle up to 3 heaters
 Each control panel (enclosure) fits maximum of 2 relays
 Please refer to the table below to select the appropriate relay size

Heater Capacity (W)	Voltage				
	120	208	240	277	480
500	18A	-	-	-	-
750	18A	-	-	-	-
1000	18A	-	-	-	-
1500	32A	18A	18A	-	-
2000	-	32A	18A	18A	18A
2500	-	32A	32A	32A	18A
3000	-	32A	32A	32A	18A
4000	-	50A	50A	32A	32A
5000	-	75A	75A	50A	32A
6000	-	75A	75A	75A	32A



Zone Analog Controller
(with and without timer)



Solid State Relay Panel



Home Management Relay Panel

Electric Heater - Solid State Control Options:

ZONE ANALOG CONTROLLER

The ability to adjust heating intensity. All Controllers are NEMA 12 RATED, and can be exposed to mist, but not direct rain. Each Intensity Control Knob can control a maximum of three relays in the Relay Panel.

	<u>Part #</u>	<u>List Price</u>
1 Zone Analog Controller	JM-4032-XX \$	858.00
2 Zone Analog Controller	JM-4033-XX	1,142.00
3 Zone Analog Controller	JM-4034-XX	1,452.00
4 Zone Analog Controller	JM-4035-XX	1,768.00
1 Zone Analog Controller with Digital Timer	JM-4045-XX	1,109.00
2 Zone Analog Controller with Digital Timer	JM-4046-XX	1,401.00
3 Zone Analog Controller with Digital Timer	JM-4047-XX	1,709.00
4 Zone Analog Controller with Digital Timer	JM-4048-XX	2,026.00

SOLID STATE RELAY PANEL

The Solid State Relay Panel and Zone Analog Controller (with or without optional timer) work together

All Relay Panels are NEMA 4 RATED, and completely weather resistant.

Maximum of 9,000 watts @ 240V or 8,000 watts @ 208V per relay.

	<u>Part #</u>	<u>List Price</u>
1 Relay Control Panel	JM-4051-XX \$	1,657.00
2 Relay Control Panel	JM-4052-XX	2,165.00
3 Relay Control Panel	JM-4053-XX	2,746.00
4 Relay Control Panel	JM-4054-XX	3,326.00
5 Relay Control Panel	JM-4055-XX	4,023.00
6 Relay Control Panel	JM-4056-XX	4,710.00

HOME MANAGEMENT RELAY PANEL

Integrate electricSchwank heaters directly into your home management system

All Relay Panels are NEMA 4 RATED, and completely weather resistant.

Note: Requires 0-10V DC Signal

	<u>Part #</u>	<u>List Price</u>
1 Relay Home Management Control Panel	JM-4061-XX \$	2,943.00
2 Relay Home Management Control Panel	JM-4062-XX	4,065.00
3 Relay Home Management Control Panel	JM-4063-XX	6,044.00
4 Relay Home Management Control Panel	JM-4064-XX	7,007.00
5 Relay Home Management Control Panel	JM-4065-XX	9,130.00
6 Relay Home Management Control Panel	JM-4066-XX	10,067.00

Note: Please contact your sales rep for information on our custom designed Solid State Relay Control Packages

GAS CONVERSION KITS

Only Conversion Kits for Current Production Orders are Listed Below.

Burners in your stock, and installed in the field: 2

To ensure correct kit:

- **Model # & Serial # MUST be provided** (located on Burner rating plate).
- Contact Customer Service 1-877-686-3779

Infrasave TUBE HEATERS

NOTE: Conversion kits are NOT available for Tube Heater Models: IT, IRB

As safe practice, Infrasave does not recommend or support fuel conversion of heaters that have been in service for 10 years or longer.

Heater Model	Input	NG to LP	LP to NG	List Price	List Price
P40-R, P40U-I, P40U-IP, P40U-IW	40,000	JS-0555-XA	JS-0555-XB	\$ 40.00	\$ 40.00
MODELS: IQ, ITB, IWP, IW	45,000	JS-0556-XC	JS-0556-XD	76.00	76.00
	60,000	JS-0557-XX	JS-0558-XX	40.00	40.00
	80,000	JS-0559-XX	JS-0560-XX	40.00	40.00
	100,000	NG ONLY - Not Convertible			
	110,000 1	JS-0561-XB	JS-0562-XB	177.00	137.00
	125,000 3	JS-0563-XB	JS-0564-XB	68.00	68.00
	150 / 155,000	JS-0565-XX	JS-0566-XX	40.00	40.00
	175,000 1, 3	JS-0567-AS	JS-0567-BS	137.00	134.00
	200,000 1, 3	JS-0567-CS	JS-0567-DS	86.00	69.00

** NOTES: 1. 110,000, 175,000 & 200,000 Burners for LP:

These input rate burners require more extensive conversion in the field

Conversion is available, but best to order burners produced in LP from the factory

2. Different burner configurations exist for some burner input rates.

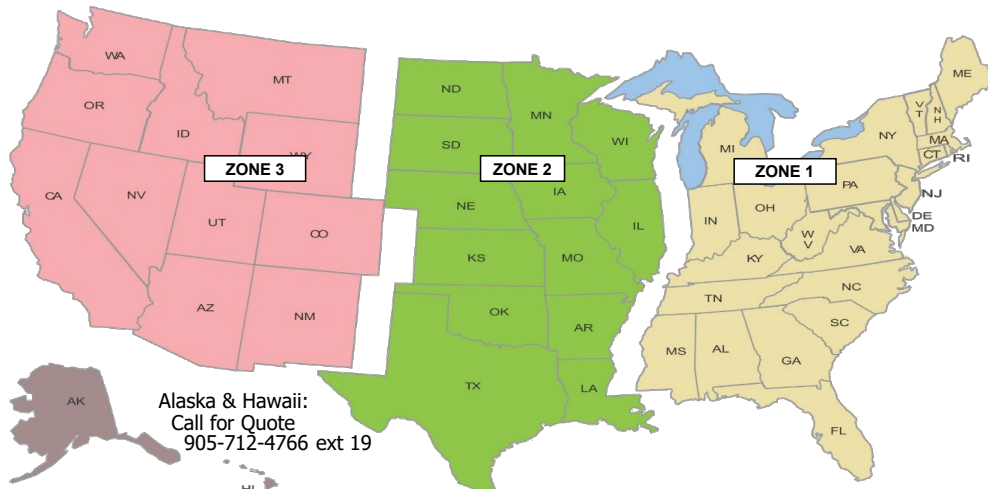
MUST provide Model and Serial Numbers to Customer Service 1-877-686-3779

3. Check specific model price pages or manual for length restrictions with LP burners

		NG to LP	LP to NG		
MODEL: ITT	80/60,000	JS-0555-TC	JS-0555-TD	\$ 67.00	\$ 67.00
2-STAGE TUBE HEATERS	110,75,000	JS-0555-TG	JS-0555-TH	67.00	67.00
	125/90,000	JS-0555-TK	JS-0555-TL	67.00	67.00
	155/110,000	JS-0555-TO	JS-0555-TP	67.00	67.00

	Input	NG to LP	Burner Type	List Price
superTube IST Models	50,000	JS-0553-AL	1-stage	53.00
Single-Stage	65,000	JS-0553-BL	1-stage	53.00
	80,000	JS-0553-CL	1-stage	53.00
	115,000	JS-0553-DL	1-stage	53.00
	130,000	JS-0553-EL	1-stage	53.00
	155,000	JS-0553-FL	1-stage	53.00
	180,000	JS-0553-GL	1-stage	53.00
	205,000	JS-0553-HL	1-stage	53.00
	225,000	JS-0553-JL	1-stage	53.00
	250,000	JS-0553-KL	1-stage	53.00
superTube IST Models	50,000	JS-0554-LL	2-stage	63.00
Two-Stage	65,000	JS-0554-ML	2-stage	63.00
	80,000	JS-0554-NL	2-stage	63.00
	115,000	JS-0554-PL	2-stage	63.00
	130,000	JS-0554-RL	2-stage	63.00
	155,000	JS-0554-SL	2-stage	63.00
	180,000	JS-0554-TL	2-stage	63.00
	205,000	JS-0554-UL	2-stage	63.00
	225,000	JS-0554-VL	2-stage	63.00
	250,000	JS-0554-WL	2-stage	63.00

FREIGHT ZONES & CHARGES



Minimum Order / Invoice: \$100 LIST; \$50 NET

IMPORTANT NOTES: ITEMS EXEMPT FROM ADDER RATES [for other products see Table below]

- ▮ **PARTS/ ACCESSORIES, SMALL ORDERS by Courier: FULL COURIER CHARGES Apply**
- ▮ **Bulky replacement parts that ship "Prepaid & Charged" by Transport Truck [such as tubes and reflectors] will be invoiced the full Transport Truck freight charges [minimum \$100]**
- ▮ **MINIMUM TRANSPORT TRUCK FREIGHT CHARGE: \$100**

1. Infrasave will ship any product via your account with the shipping company of your choice.

When placing your order, please include the shipping company's name, telephone, and your account number.

2. Prepay & Charge Service: Infrasave can arrange shipment of your order, prepay freight, and charge the shipping costs on your product invoice. Please refer to the following freight options and charges that result from a single shipment to your warehouse location:

Rates and percentages listed below are provided to assist you in estimating your freight cost for heater orders [*see Important Notes above]. The percentage listed represents the maximum freight cost.

TRANSPORT FREIGHT CHARGE* BASED ON LIST PRICE: Applicable Taxes Extra

Zone	Total Product LIST PRICE [US\$]	ADD to Any Order That INCLUDES a TUBE HEATER	ADD to Order For Only High Intensity, Patio, or Electric Heaters
#1	\$15,000 and OVER	0%	0%
#1	\$7,500 to \$14,999	5%	3%
#1	\$100* to \$7,499.	7%	5%
#2	\$20,000 and OVER	0%	0%
#2	\$10,000 to \$19,999	7%	3%
#2	\$100* to \$9,999.	9%	5%
#3	\$25,000 and OVER	0%	0%
#3	\$20,000 to \$24,999	5%	3%
#3	\$10,000 to \$19,999	9%	5%
#3	\$100* to \$9,999.	11%	7%

Any additional charges that result from re-delivery fees, storage fees, residential delivery fees, job-site unloading fees, etc. will be invoiced. It is the customer's responsibility to arrange receiving of the product shipment.

WARRANTY SUMMARY

Infrasave Product	WARRANTY TERM (YEARS)					
	All Heaters	Luminous	Tube Heaters		Outdoor Parasol	
	Components	Ceramic Tile	Burner C u p	Radiating T u b e s	Burner	Mantle
LUMINOUS HEATERS: IL Series	2	10				
TUBE HEATERS: superTube – IST Series	3		10	10		
Premier – IQ Series	3		10	10		
Builder – ITB(U) Series	2		5	5		
Two-stage – ITT(U) Series	2		5	5		
P40U- Series (-IP, -IW)	3		10	10		
Residential – P40-R Vented Room Heater	3		10	10		
OUTDOOR/WET ENVIRONMENT HEATERS: Luminous IO-100 Series	1	3				
Luminous IO-210 Series	1	3				
Tube Heaters: IWP / IWP2 & IW / IW2 / IWS / IWS2	3		10	10		
Parasol 4000	1				3	3
ES /ESD Electric IR	2					
AIR CURTAINS 500 Series – Drive-Thru Window	1					
1200 Series	1					
2000 & 2500 Series	2					

**OPTIONAL ACCESSORIES AND REPLACEMENT PARTS ARE COVERED BY
THE PART MANUFACTURER'S WARRANTY: TYPICALLY 1 YEAR**

Product warranties consist only of providing a like replacement part for a defective part during the term of the warranty, F.O.B. InfraSave.

Please note, that the above does not constitute a description of product warranty. This table is intended only as a summary of general warranty term information and is subject to change without notice.

Individual product warranty statements are supplied within each product manual.