

PRODUCT PRICE LIST 2019 USA

PRICES IN EFFECT APRIL 1, 2019

RELEASE: 19-1A, APRIL 1, 2019



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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

Changes to Infrasave Freight Fees - Effective April 1, 2019

■ The transport freight charges for all schwank products will increase, effective April 1, 2019. Schwank has not increased the freight charges for more than a decade, and revenues from the freight charges have not been adequate to keep pace with the increase in courier services fees over this time. Please refer to revised freight policy on page 57 for more details.

PRODUCT NOTES

Air Curtains

- Infrasave has decided to replace the Infrasave air curtain brand with SchwankAir brand, effective April 1, 2019. All Infrasave air curtain item numbers have been replaced by equivalent SchwankAir item numbers.
 All Infrasave distributors will have access to the full line of SchwankAir air curtains products.
- The following models of 1000 series Air Curtains have been discontinued and removed from the pricelist:

AB-1003-12-01 SchwankAir curtain 1003
 AB-1004-12-01 SchwankAir curtain 1004

24Vac or Line Voltage Control

- All tube heater models can be controlled with either Line Voltage or 24Vac Thermostat as determined by project requirements or installer's choice (also see Fenwal Control notes below)
- NOTE: 24V Thermostat Control Kit JS-0568-KT is no longer required for models S100 & S100U
 Models S100 & S100U are now factory ready for 24Vac or Line Voltage T-stat control

IMPORTANT: Fenwal Control: Models IQ. ITB. ITBU. ITT. ITTU

- 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 thermostat or control must be installed in the thermostat loop from the terminal block in the burner
- Control interuption of the power supply will disconnect the ignition control and disable the post-purge feature
- Refer to 24V Guidelines page 21 and/or the heater model manual for more information
- New: Relay Switch JS-0568-CC replaces JM-0303-KT for 24V control of multiple heaters in a common zone

All Tube Heater Models Factory Ready for Outside Combustion Air

- A 4" diameter collar is attached to the blower inlet for simple connection of outside air duct
- Optional duct terminal caps allow outside air from wall or roof
- Air Intake Adapter JS-0532-SE is no longer required for models ITB[U] & ITT[U]

Also refer to General Info on Tube Heaters ... Page 12

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: 1-877-446-3727; 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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SchwankAir







500 Series

1000 Series

Surface Mount Air Curtains

2000 Series

STACK MODELS OF SAME SERIES END-TO-END FOR WIDER DOORS
REFER TO BROCHURE, MANUAL, OR SUBMITTAL DATA FOR DETAILED SPECIFICATIONS

500										
	Max. Do	<u>or</u>	Curtain Heat	Output		Dimen	sions (In	ches)		
<u>Model</u>	<u>Height</u>	<u>CFM</u>	(Btuh)	<u>kW</u>	<u>FLA</u>	<u>Length</u>	<u>Height</u>	<u>Depth</u>	Part Number	LIST PRICE
500 Serie	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	\$ 902.00
532EH	7' 6"	220	8,400 / 16,770	2.46 / 4.91	25	32	8	4.75	AC-JE32-20	1,273.00
1000	•				•			:		
1000	M D-		O	0.44		D:	-: (1	-1 \		
Model	Max. Do	<u>or</u> CFM	Curtain Heat			<u>Dimen</u> Length	sions (In	<u>cnes)</u> Depth	Dart Number	LIST PRICE
iviouei	<u>Height</u>	<u>CI IVI</u>	(Btuh)	<u>kW</u>	<u>FLA</u>	Lengin	neigni	Deptil	<u>Part Number</u>	LIST FRICE
			OUNT - AMBIENT [NO	HEAT] -						
1006	7' 3"	1340 / 1	1060 -	-	5.25	70.9	9.1	8.5	AB-1006-12-01	1,726.00
2000	i '				į			:		
2000	May Do	•	Curtain Heat	Output		Dimon	oiono (In	oboo)		
Model	Max. Do Height	Or CFM	<u>Curtain Heat</u> (Btuh)	kW	FLA	Lenath	sions (In	Depth	Part Number	LIST PRICE
iviouei	neigni	<u>OI IVI</u>	(Dtull)	KVV	ILA	Lengui	rieigni	<u> Берш</u>	<u>r art Number</u>	<u>LIOTT RIOL</u>
2000 Ser		FACE MC	OUNT - AMBIENT [NO	HEAT] -	230/1/60 : v	v/ WIRE	D CONT	ROL & D	OOR SWITCH	
2045	10'	740	-	-	0.5	45	8	11	AC-CA45-23	\$ 2,834.00
2066	10'	1060	-	-	0.7	66	8	11	AC-CA66-23	3,244.00
2087	10'	1470	-	-	1	87	8	11	AC-CA87-23	4,123.00
2000 Ser	ies: SUR	FACE MC	OUNT - ELECTRIC HE	AT - 208/	3/60 : w/ W	IRED CO	ONTROL	& DOOI	R SWITCH	
2045EH	10'	740	15,370 / 30,735	4.5 / 9	24.5	45	8	11	AC-CE45-20	\$ 2,994.00
2066EH	10'	1060	20,490 / 40,980	6 / 12	32.7	66	8	11	AC-CE66-20	3,326.00
2087EH	10'	1470	30,735 / 61,470	9 / 18	49	87	8	11	AC-CE87-20	5,346.00
2000 Ser	ies: SUR	FACE MC	OUNT - ELECTRIC HE	AT - 480/	3/60 : w/ W	IRED CO	ONTROL	& DOOI	R SWITCH	
2045EH	10'	740	15,370 / 30,735	4.5 / 9	10.9	45	8	11	AC-CE45-48	\$ 2,994.00
2066EH	10'	1060	20,490 / 40,980	6 / 12	13.5	66	8	11	AC-CE66-48	3,326.00
2087EH	10'	1470	30,735 / 61,470	9 / 18	21.7	87	8	11	AC-CE87-48	5,346.00
2000 Sor	ioo. CIID	EACE MC	OUNT - ELECTRIC HE	AT 600/	2/60 / \/	UDED CO	NITROL	8 DOO!	D SWITCH	
2045EH	10'	740	15,370 / 30,735	4.5 / 9	9.3	45	8	11	AC-CE45-60	\$ 2,994.00
2066EH	10'	1060	20,490 / 40,980	6 / 12	12.8	66	8	11	AC-CE66-60	3,326.00
2087EH	10'	1470	30,735 / 61,470	9 / 18	18.6	87	8	11	AC-CE87-60	5,346.00
2000 Ser	ies: SUR	FACE MC	OUNT - HOT WATER H	IEAT - 23	0/1/60 : w/	WIRED	CONTRO	DL & DO	OR SWITCH	
2045WH	10'	700	10,245 / 20490	3/6	0.5	45	8	11	AC-CW45-23	\$ 3,173.00
2066WH	10'	1000	15,370 / 30,735	4.5 / 9	0.7	66	8	11	AC-CW66-23	3,708.00
2087WH	10'	1400	20,490 / 40,980	6 / 12	1	87	8	11	AC-CW87-23	4,855.00
					į					





2500

CONTACT CUSTOMER SERVICE FOR AVAILABILITY & PRICING 1-877-446-3727

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

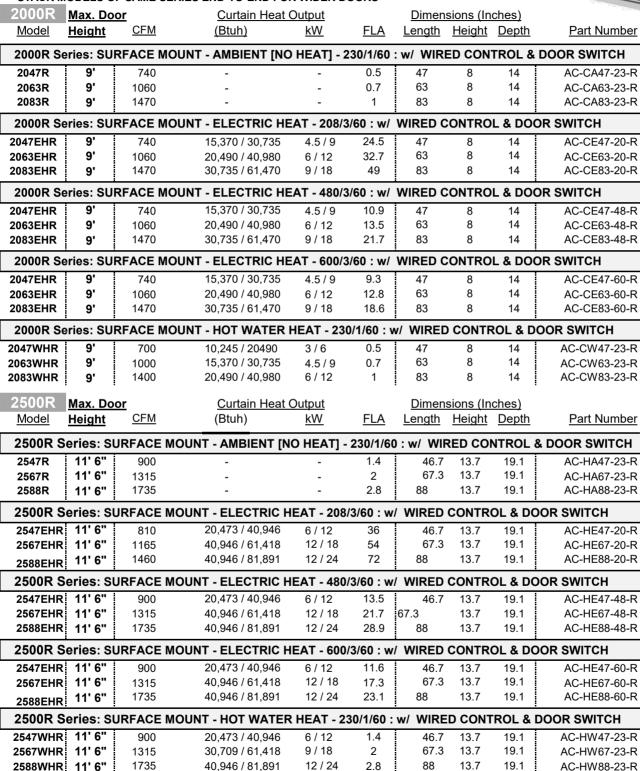
2500									
	Max. Do	or	Curtain Heat	Output		Dimen	sions (In	ches)	
<u>Model</u>	Height	CFM	(Btuh)	kW	<u>FLA</u>	Length	Height	Depth	Part Number
2500 Son	ioo. SIID	EACE MOU	INT - AMBIENT [NO	LEATI	220/4/60	w/ WIDE	D CONT	POI 9 I	OOD SWITCH
2500 Ser		FACE MOU	INI - AMBIENI [NO	пеаіј.	- 230/1/60 : \	W/ VVIRE	D CONTI		JOOK SWITCH
2551	11' 6"	900	-	-	1.4	51.2	12.1	18.4	AC-HA51-23
2572	11' 6"	1315	-	-	2	71.9	12.1	18.4	AC-HA72-23
2593	11' 6"	1735	-	-	2.8	92.5	12.1	18.4	AC-HA93-23
2500 Ser	ies: SUR	FACE MOU	INT - ELECTRIC HE	AT - 208	/3/60 : w/ W	VIRED CO	ONTROL	& DOO	R SWITCH
2551EH	11' 6"	810	20,473 / 40,946	6 / 12	36	51.2	12.1	18.4	AC-HE51-20
2572EH	11' 6"	1165	40,946 / 61,418	12 / 18	54	71.9	12.1	18.4	AC-HE72-20
2593EH	11' 6"	1460	40,946 / 81,891	12 / 24	72	92.5	12.1	18.4	AC-HE93-20
2500 Ser	ies: SUR	FACE MOU	INT - ELECTRIC HE	AT - 480	/3/60 : w/ W	VIRED CO	ONTROL	& DOO	R SWITCH
2551EH	11' 6"	900	20,473 / 40,946	6 / 12	13.5	51.2	12.1	18.4	AC-HE51-48
2572EH	11' 6"	1315	40,946 / 61,418	12 / 18	21.7	71.9	12.1	18.4	AC-HE72-48
2593EH	11' 6"	1735	40,946 / 81,891	12 / 24	28.9	92.5	12.1	18.4	AC-HE93-48
2500 Ser	ies: SUR	FACE MOU	INT - ELECTRIC HE	AT - 600	/3/60 : w/ W	VIRED CO	ONTROL	& DOO	R SWITCH
2551EH	11' 6"	900	20,473 / 40,946	6 / 12	11.6	51.2	12.1	18.4	AC-HE51-60
2572EH	11' 6"	1315	40,946 / 61,418	12 / 18	17.3	71.9	12.1	18.4	AC-HE72-60
2593EH	11' 6"	1735	40,946 / 81,891	12 / 24	23.1	92.5	12.1	18.4	AC-HE93-60
2500 Ser	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
2572WH	11' 6"	1315	30,709 / 61,418	9 / 18	2	71.9	12.1	18.4	AC-HW72-23
2593WH	11' 6"	1735	40,946 / 81,891	12 / 24	2.8	92.5	12.1	18.4	AC-HW93-23

SchwankAir

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







Typical accessories are listed below. Other Accessories: next page Transformers: page 11

Notes: IL-M Millivolt Series Discontinued 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	<u>GAS</u>	PART #	LIST PRICE
IL 25	NG ONLY	21,500 Btuh	NG ONLY	IL-0025-NG	\$ 638.00
IL 37	N or L	35,000 Btuh	NG	IL-0037-NG	665.00
			LP	IL-0037-LP	665.00
IL 50	N or L	50,000 Btuh	NG	IL-0050-NG	794.00
			LP	IL-0050-LP	794.00
IL 75	N or L	65,000 Btuh	NG	IL-0075-NG	929.00
			LP	IL-0075-LP	929.00
IL 100	N or L	100,000 Btuh	NG	IL-0100-NG	999.00
			LP	IL-0100-LP	999.00
IL 150	N or L	143,000 Btuh	NG	IL-0150-NG	1,718.00
			LP	IL-0150-LP	1,718.00
IL 200	N or L	200,000 Btuh	NG	IL-0200-NG	1,884.00
			LP	IL-0200-LP	1,884.00

IL Series Heaters require 24 volt connection

TYPICAL OPTIONAL ACCESSORIES FOR IL SERIES	PART#	LIST	PRICE
Flexible Gas Connector 1/2" X 24" [up to 150,000 Btuh]	JL-0771-XX	\$	44.40
Flexible Gas Connector 3/4" x 36" - for ECO 52	JL-0771-YY		140.00
#8 Jack Chain - 60 lb work load - box 50'	JL-0798-JC		81.70
#2 Lion Chain - 115 lb work load - 200 ft roll	JL-0800-XX		133.00
'S' Hooks - Package of 25	JL-0798-SH		31.40
Safety Snap Hooks - 2" Package of 24	JL-0800-SH		54.10
Package of 100	JL-0800-SH-B		167.00
Pressure Equalizer Venturi Cover [for drafty areas] Note: IL 150 & 200 require two Venturi Covers	JO-0368-XX		216.00
THERMOSTATS - For 24V Thermostat control requirements see 'Guidelines' page 11			
Line Voltage [120V] Thermostat	JL-0772-XX	\$	53.10
Low Voltage [24V] Digital Thermostat °F & °C [Requires Control Center JM-0300-AA below for multiple heaters]	JS-0569-WR		89.10
TruTemp Set Back Infra-red Thermostat [24V] [Requires Control Center JM-0300-AA below for multiple heaters]	JM-0150-XX		189.00
Transformer/Relay [Required for 24V Control of Multiple Heaters]	JM-0300-AA		140.00



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]		PART#	LIST P	RICE
For: IL 25		JX-0249-XX	\$	36.10
IL 37		JX-0252-XX		66.90
IL 50		JX-0253-XX		66.90
IL 75		JX-0254-XX		70.70
IL 100		JX-0255-XX		72.60
<u> </u>	Side - Order Quantity 2 if both sides require			
For: IL 25	Single Side	JX-0260-SG-P	\$	57.50
IL 37	Single Side	JX-0236-SG-P		86.90
IL 50	Single Side	JX-0237-SG-P		91.10
IL 75	Single Side	JX-0238-SG-P		117.00
IL 100	Single Side	JX-0239-SG-P		174.00

Field Conversion for Fuel Gas:

'IL' Series High Intensity Heaters	NG to LP	LP to NG	
IL 37	JX-0253-XA	JX-0252-XA	\$ 65.40
IL 50	JX-0253-XB	JX-0252-XB	65.40
IL 75	JX-0253-XC	JX-0252-XC	65.40
IL 100	JX-0253-XD	JX-0252-XD	65.40
IL 150	JX-0253-XC-A	JX-0252-XC-A	78.50
IL 200	JX-0253-XD-A	JX-0252-XD-A	78.50

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	\$ 81.90
	CONV. KIT - NG TO LP - IO-150	JX-0253-XJ	82.60
IO-210 Series NG to LP	CONV. KIT - NG TO LP - IO-212	JX-0253-XE	65.40
	CONV. KIT - NG TO LP - IO-213	JX-0253-XF	65.40
IO-100 Series LP to NG	CONV. KIT - LP TO NG - 10-135	JX-0252-XH	81.90
	CONV. KIT - LP TO NG- IO-150	JX-0252-XJ	81.50
IO-210 Series LP to NG	CONV. KIT - LP TO NG - IO-212	JX-0252-XE	65.40
	CONV. KIT - LP TO NG - IO-213	JX-0252-XF	65.40
	Models IO-152 & IO-252 are NG Only, and Not Co	nvertible to LP	



24V TRANSFORMERS for IL HIGH INTENSITY HEATERS

QTY HEATERS*	REQUIRED SIZE		PART #	LIST PI	RICE
1 heater	40 VA Transformer	4"x4" Electrical Box Mount	JL-0776-XX	\$	95.50
Up to 4	100 VA Transformer	Closed Type	JL-0778-XX		177.00
5 to 6	150 VA Transformer	Closed Type	JL-0779-XX		213.00
7 to 9	200 VA Transformer	Closed Type	JL-0780-XX		243.00
10 to 12	250 VA Transformer	Closed Type	JL-0781-XX		265.00
13 to 16	350 VA Transformer	Closed Type	JL-0781-AA		310.00

^{*} 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

- 11 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 29

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

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 \$ 44.40

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

JL-0771-YY \$ 140.00

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



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

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 Lion Chain and four safety snap hooks.

MODEL	CAPACITY	<u>FUEL</u>	<u>LENGTH</u>	PART#	LIST PRICE
P40-R	40,000 Btuh	NG	10'	PU-R040-BN	\$ 1,863.00

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

	<u>INPUT</u>	PART #	LIST PRICE*
Field Conversion Kit NG to LP	40,000 Btuh	JS-0555-XA	\$ 33.40

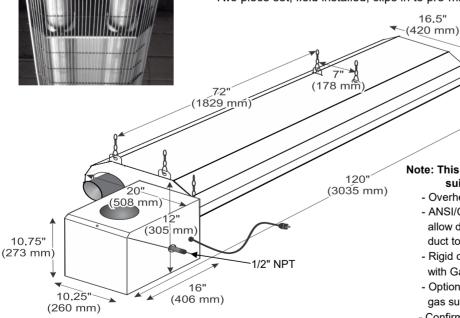
OPTIONAL ACCESSORIES:

4" Horizontal Wall Flue Terminal 34.70 JA-0528-XX Flexible Gas Connector 1/2" x 24" JL-0771-XX 44.40

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

16.5"



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

JS-0502-UR-GK

- 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

235.00



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



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

16.5"

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:

			IOIAL			
MODEL	CAPACITY	<u>FUEL</u>	LENGTH	Burner Housing	PART#	LIST PRICE
P40U-I	40,000 Btuh	NG	10'	Painted; Drop jaw access for service	PU-0J40-AN	\$ 1,928.00
P40U-IP	40,000 Btuh	NG	10'-3"	Powder Coated weather resistant	PU-PJ40-AN	2,430.00
P40U-IW	40,000 Btuh	NG	10'-3"	Stainless Steel weather resistant	PU-WJ40-AN	2,723.00

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	\$ 33.40
OPTIONAL ACCESSORIES:	4" Horizontal Wall Flue Terminal	JA-0528-XX	34.70

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Protective Guard Screen

- Required for installations between 6 to 8 ft above floor
 - JS-0502-UR-GK

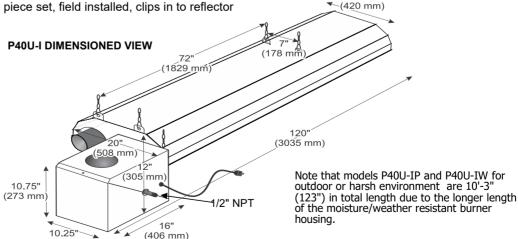


- Recommended for Patio installations

(260 mm)



- Two piece set, field installed, clips in to reflector



RD: April 1, 2019 RL: 19-1A

235.00



IQ SERIES TUBE HEATERS



Straight Tube - emissive coated

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

COMPLETE TUBE HEATER SYSTEMS:

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

OPTIONAL ACCESSORIES PAGES 26 to 29

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

SYSTEM	CAPACITY	TUBE		COMPONENT P	(ITS [individual c	artons]	
KIT MODEL#	INPUT [Btuh]	<u>LENGTH</u>	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2#	<u>LIST PRICE</u>
PU-0J40-AN	40,000	10'U	NG*				[Details Page 15] \$ 1,928.00
IQ-45-20-AN	45,000	20'	NG*	JJ-S045-AN	TS-1420-JZ	-	1,908.00
IQ-60-20-AN	60,000	20'	NG*	JJ-S060-AN	TS-1420-JZ	-	1,908.00
IQ-60-30-AN		30'		JJ-S060-AN	TS-1430-JZ	-	2,170.00
IQ-80-20-AN	80,000	20'	NG*	JJ-S080-AN	TS-1420-JZ	-	1,908.00
IQ-80-30-AN		30'		JJ-S080-AN	TS-1430-JZ	-	2,170.00
IQ-80-40-AN		40'		JJ-S080-AN	TS-1040-JZ	-	2,432.00
IQ-100-20-AN	100,000	20'	NG Only	JJ-S100-AN	TS-1020-JZ	-	2,033.00
IQ-110-30-AL	110,000	30'	LP **	JJ-S110-AL	TS-1430-JZ	-	2,170.00
IQ-110-30-AN		30'	NG*	JJ-S110-AN	TS-1430-JZ	-	2,170.00
IQ-110-40-AL		40'	LP **	JJ-S110-AL	TS-1040-JZ	-	2,432.00
IQ-110-40-AN		40'	NG*	JJ-S110-AN	TS-1040-JZ	-	2,432.00
IQ-110-50-AL		50'	LP **	JJ-S110-AL	TS-F030-JZ	TS-0020-JZ	2,807.00
IQ-110-50-AN		50'	NG*	JJ-S110-AN	TS-F030-JZ	TS-0020-JZ	2,807.00
IQ-130-30-AN	125,000	30'	NG ONLY	JJ-S130-AN	TS-1430-JZ	-	2,170.00
IQ-130-40-AN		40'	NG*	JJ-S130-AN	TS-1040-JZ	-	2,432.00
IQ-130-50-AN		50'		JJ-S130-AN	TS-F030-JZ	TS-0020-JZ	2,807.00
IQ-155-40-AN	150,000	40'	NG*	JJ-S155-AN	TS-1040-JZ	-	2,519.00
IQ-155-50-AN		50'		JJ-S155-AN	TS-F030-JZ	TS-0020-JZ	2,895.00
IQ-155-60-AN		60'		JJ-S155-AN	TS-F030-JZ	TS-0030-JZ	3,156.00
IQ-175-50-AL	175,000	50'	LP **	JJ-S175-AL	TS-1030-JZ	TS-0020-JZ	3,049.00
IQ-175-50-AN		50'	NG*	JJ-S175-AN	TS-1030-JZ	TS-0020-JZ	3,049.00
IQ-175-60-AL		60'	LP **	JJ-S175-AL	TS-1030-JZ	TS-0030-JZ	3,311.00
IQ-175-60-AN		60'	NG*	JJ-S175-AN	TS-1030-JZ	TS-0030-JZ	3,311.00
IQ-175-70-AN		70'	NG Only	JJ-S175-AN	TS-1030-JZ	TS-0040-JZ	3,572.00
IQ-200-50-AN	200,000	50'	NG Only	JJ-S200-AN	TS-1030-JZ	TS-0020-JZ	3,049.00
IQ-200-60-AL		60'	LP **	JJ-S200-AL	TS-1030-JZ	TS-0030-JZ	3,311.00
IQ-200-60-AN		60'	NG*	JJ-S200-AN	TS-1030-JZ	TS-0030-JZ	3,311.00
IQ-200-70-AL		70'	LP **	JJ-S200-AL	TS-1030-JZ	TS-0040-JZ	3,572.00
IQ-200-70-AN		70'	NG*	JJ-S200-AN	TS-1030-JZ	TS-0040-JZ	3,572.00

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

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.

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55



ORDERING TUBE HEATERS:

either ■ 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: 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.

MOUNTS TO FUEL TYPE IN		FUEL TYPE IN	FLEX GAS				
	CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	LIS	T PRICE
	45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-S045-AN	\$	1,148.00
	60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-S060-AN		1,148.00
	80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-S080-AN		1,148.00
	100,000 Btuh	20' special	N.G. ONLY	1/2" x 24"	JJ-S100-AN		1,148.00
	110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-S110-AN		1,148.00
	110,000 Btuh LP **	30', 40', 50'	LP **	1/2" x 24"	JJ-S110-AL		1,148.00
	125,000 Btuh	30'	30 ft = N.G. ONLY	1/2" x 24"	JJ-S130-AN		1,148.00
	125,000 Btuh	40', 50'	N.G.* [40' & 50' for NG or LP]	1/2" x 24"	JJ-S130-AN		1,148.00
	150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-S155-AN		1,236.00
	175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-S175-AN		1,273.00
	175,000 Btuh LP **	50', 60'	L.P.** [70' not available for LP]	3/4" X 36"	JJ-S175-AL		1,273.00
	200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-S200-AN		1,273.00
	200,000 Btuh LP **	LP: 60', 70'	L.P.** [50' not available for LP]	3/4" X 36"	JJ-S200-AL		1,273.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

Tube Kits: IQ Series - Can be ordered individually

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

Stand-Alone	e Tube K	(its [do not require any additional Tube Kit]	TUBE KIT #	LIST PRICE
20' : 45/60/80,00	00	Flanged aluminized tube + 1 emissive coated steel tube: Turbulators 4 ft + 8 ft	TS-1420-JZ	\$ 760.00
20' : 100,000 ON	NLY	Flanged aluminized tube + 1 emissive coated steel tube: Turbulator Special 8 ft	TS-1020-JZ	884.00
30' : 60/80/110/1	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	1,022.00
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	1,283.00
Primary Tub	oe Kits [r	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	1,008.00
30' : 175/200,0	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	1,127.00
Secondary 7	Tube Kit	<u>s</u> [needed with above Primary Kits to make 50', 60' & 70' heaters]		
20'	Two emis	sive coated steel tubes [makes 50' heater with either 30' primary]	TS-0020-JZ	650.00
30'	Three em	issive coated steel tubes [makes 60' heater with either 30' primary]	TS-0030-JZ	911.00
40'	Four emis	ssive coated steel tubes [makes 70' heater with 30' primary TS-1030-JZ]	TS-0040-JZ	1,172.00
		sive coated steel tube, reflector, hanger, reflector braces, coupler e the 10 ft tube kit to extend heater length beyond the maximum length approved fo	TS-1010-JZ or any input.	429.00



BUILDER MODEL ITB FEATURES: - 24V or Line Voltage Thermostat Ready - Birdscreened Combustion Air Collar - 4"

- Whisper Quiet Ceramic Burner - End Capped Reflectors

- Flexible Gas Connector included

- Swing-down Cabinet Service Access



BUILDER MARKET SERIES

Wire hangers allow flexible positioning along system

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

Single Straight Tube - No emissive coat on tubes

OPTIONAL ACCESSORIES PAGES 26 to 29

COMPLETE TUBE HEATER SYSTEMS:

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

SYSTEM	CAPACITY	TUBE		COMPONENT I	KITS [individual ca	artons]	
KIT MODEL #	INPUT [Btuh]	LENGTH	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2 #	LIST PRICE
PU-0J40-AN	40,000	10'U	NG*			[Details P	age 15] \$ 1,928.00
ITB-45-20-AN	45,000	20'	NG*	JJ-E045-BN	TM-1420-SX	-	1,648.00
ITB-60-20-AN	60,000	20'	NG*	JJ-E060-BN	TM-1420-SX	-	1,648.00
ITB-60-30-AN		30'	NO	JJ-E060-BN	TM-1430-SX	-	1,833.00
ITB-80-20-AN	80,000	20'	NG*	JJ-E080-BN	TM-1420-SX	-	1,648.00
ITB-80-30-AN		30'		JJ-E080-BN	TM-1430-SX	-	1,833.00
ITB-80-40-AN		40'		JJ-E080-BN	TM-1040-SX	-	2,017.00
ITB-100-20-AN	100,000	20'	NG Only	JJ-E100-BN	TM-1020-SX	-	1,833.00
ITB-110-30-AL	110,000	30'	LP **	JJ-E110-BL	TM-1430-SX	-	1,833.00
ITB-110-30-AN		30'	NG*	JJ-E110-BN	TM-1430-SX	-	1,833.00
ITB-110-40-AL		40'	LP **	JJ-E110-BL	TM-1040-SX	-	2,017.00
ITB-110-40-AN		40'	NG*	JJ-E110-BN	TM-1040-SX	-	2,017.00
ITB-110-50-AL		50'	LP **	JJ-E110-BL	TM-F030-SX	TM-0020-SX	2,346.00
ITB-110-50-AN		50'	NG	JJ-E110-BN	TM-F030-SX	TM-0020-SX	2,346.00
ITB-130-30-AN	125,000	30'	NG Only	JJ-E130-BN	TM-1430-SX	-	1,833.00
ITB-130-40-AN		40'	NG*	JJ-E130-BN	TM-1040-SX	-	2,017.00
ITB-130-50-AN		50'		JJ-E130-BN	TM-F030-SX	TM-0020-SX	2,346.00
ITB-155-40-AN	150,000	40'	NG*	JJ-E155-BN	TM-1040-SX	-	2,111.00
ITB-155-50-AN		50'		JJ-E155-BN	TM-F030-SX	TM-0020-SX	2,440.00
ITB-155-60-AN		60'		JJ-E155-BN	TM-F030-SX	TM-0030-SX	2,637.00
ITB-175-50-AL	175,000	50'	LP **	JJ-E175-BL	TM-1030-SX	TM-0020-SX	2,628.00
ITB-175-50-AN		50'	NG*	JJ-E175-BN	TM-1030-SX	TM-0020-SX	2,628.00
ITB-175-60-AL		60'	LP **	JJ-E175-BL	TM-1030-SX	TM-0030-SX	2,825.00
ITB-175-60-AN		60'	NG*	JJ-E175-BN	TM-1030-SX	TM-0030-SX	2,825.00
ITB-175-70-AN		70'	NG Only	JJ-E175-BN	TM-1030-SX	TM-0040-SX	3,024.00
ITB-200-50-AN	200,000	50'	NG Only	JJ-E200-BN	TM-1030-SX	TM-0020-SX	2,628.00
ITB-200-60-AL		60'	LP **	JJ-E200-BL	TM-1030-SX	TM-0030-SX	2,825.00
ITB-200-60-AN		60'	NG*	JJ-E200-BN	TM-1030-SX	TM-0030-SX	2,825.00
ITB-200-70-AL		70'	LP **	JJ-E200-BL	TM-1030-SX	TM-0040-SX	3,024.00
ITB-200-70-AN		70'	NG*	JJ-E200-BN	TM-1030-SX	TM-0040-SX	3,024.00

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

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.

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55



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

	MOUNTS TO FUEL TYPE IN		FLEX GAS					
CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	<u>LIS</u>	T PRICE		
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-E045-BN	\$	988.00		
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-E060-BN		988.00		
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-E080-BN		988.00		
100,000 Btuh	20' special	N.G. ONLY	1/2" x 24"	JJ-E100-BN		988.00		
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-E110-BN		988.00		
110,000 Btuh LP **	30', 40', 50'	LP **	1/2" x 24"	JJ-E110-BL		988.00		
125,000 Btuh	30'	30 ft = N.G. ONLY	1/2" x 24"	JJ-E130-BN		988.00		
125,000 Btuh	40', 50'	N.G.* [40' & 50' for NG or LP]	1/2" x 24"	JJ-E130-BN		988.00		
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-E155-BN		1,082.00		
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-E175-BN		1,112.00		
175,000 Btuh LP **	50', 60'	L.P.** [70' not available for LP]	3/4" X 36"	JJ-E175-BL		1,112.00		
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-E200-BN		1,112.00		
200,000 Btuh LP **	LP: 60', 70'	L.P.** [50' not available for LP]	3/4" X 36"	JJ-E200-BL		1,112.00		

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

Tube Kits: ITB 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]											
20' : 45/60/80,000	Flanged aluminized tube + 1 steel tube: Turbulators 4 ft + 8 ft	TM-1420-SX	\$	660.00							
20' : 100,000 ONLY	Flanged aluminized tube + 1 steel tube: Turbulator Special 8 ft	TM-1020-SX		845.00							
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		845.00							
40' : 80/110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 2 steel tubes: Turbulators 2 ft + 10 ft	TM-1040-SX		1,029.00							
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 steel tube; Turbulator 2 ft	TM-F030-SX		829.00							
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 & 70 ft]		986.00							
Secondary Tube K	Lits [needed with above Primary Kits to make 50', 60' & 70' heaters]										
20' Two ste	el tubes [makes 50' heater with either 30' primary]	TM-0020-SX		530.00							
30' Three s	teel tubes [makes 60' heater with either 30' primary]	TM-0030-SX		726.00							
40' Four st	eel tubes [makes 70' heater with 30' primary TS-1030-JZ]	TM-0040-SX		926.00							
	One steel tube, reflector, hangers, tube coupler TM-1010-SX 359.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.										





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

Supension 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 26 to 29

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

SYSTEM	CAPACITY	TUBE		COMPONE	ENT KITS [indivi	dual cartons]		
KIT MODEL #	INPUT [Btuh]	LENGTH F	UEL	Burner Kit	# Tube Kit	<u>1#</u> Tube K	it 2 #	LIST PRICE
PU-0J40-AN	40,000	10' Tota	al	NG*				\$ 1,928.00
ITBU-60-10-AN	60,000	10'U =	2 x 10'	NG*	JJ-E060-BN	TM-1410-SU	-	1,844.00
ITBU-80-10-AN	80,000	10'U =	2 x 10'	NG*	JJ-E080-BN	TM-1410-SU	-	 1,844.00
ITBU-80-15-AN		15'U =	2 x 15'		JJ-E080-BN	TM-1415-SU	-	2,158.00
ITBU-110-15-AN	110,000	15'U =	2 x 15'	NG*	JJ-E110-BN	TM-1415-SU	-	2,158.00
ITBU-110-15-AL		15'U =	2 x 15'	LP**	JJ-E110-BL	TM-1415-SU	-	2,158.00
ITBU-110-20-AN		20'U =	2 x 20'	NG*	JJ-E110-BN	TM-1020-SU	-	2,231.00
ITBU-110-20-AL		20'U =	2 x 20'	LP**	JJ-E110-BL	TM-1020-SU	-	2,231.00
ITBU-130-15-AN	125,000	15'U =	2 x 15'	NG Only	JJ-E130-BN	TM-1415-SU	-	2,158.00
ITBU-130-20-AN		20'U =	2 x 20'	NG*	JJ-E130-BN	TM-1020-SU	-	2,231.00
ITBU-155-20-AN	150,000	20'U =	2 x 20'	NG*	JJ-E155-BN	TM-1020-SU	-	2,325.00
ITBU-155-30-AN		30'U =	2 x 30'		JJ-E155-BN	TM-0020-SU	TM-0010-SU	 2,825.00
ITBU-175-30-AN	175,000	30'U =	2 x 30'	NG*	JJ-E175-BN	TM-A120-SU	TM-0010-SU	 3,027.00
ITBU-200-30-AN	200,000	30'U =	2 x 30'	NG*	JJ-E200-BN	TM-A120-SU	TM-0010-SU	3,027.00

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

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.

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55



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

	MOUNTS TO	FUEL TYPE IN	FLEX GAS			
CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	<u>LIS</u>	T PRICE
60,000 Btuh	10' U	N.G.*	1/2" x 24"	JJ-E060-BN	\$	988.00
80,000 Btuh	10' U, 15' U	N.G.*	1/2" x 24"	JJ-E080-BN		988.00
110,000 Btuh	15' U, 20' U	N.G.*	1/2" x 24"	JJ-E110-BN		988.00
110,000 Btuh LP **	15' U, 20' U	LP **	1/2" x 24"	JJ-E110-BL		988.00
125,000 Btuh	15' U	N.G. Only	1/2" x 24"	JJ-E130-BN		988.00
125,000 Btuh	20' U	N.G.*	172 7 2 4	JJ-E130-BN		988.00
150,000 Btuh	20' U, 30' U	N.G.*	3/4" X 36"	JJ-E155-BN		1,082.00
175,000 Btuh NG	30' U	N.G. Only	3/4" X 36"	JJ-E175-BN		1,112.00
200,000 Btuh NG	30' U	N.G. Only	3/4" X 36"	JJ-E200-BN		1,112.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

Tube Kits: ITBU Series

Stand-Alone Tube Kits Ido not require any additional Tube Kit1

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

Stand-Alone Tube Kits Jud	not require any additional Tube Kiti		IUBE KII #	LIST PRICE
10'U : 60/80,000 Qty 2 x 10 ft tubes	Flanged aluminized tube + 1 steel tube; 180° Tur Turbulators 4 ft + 10 ft	n Box;	TM-1410-SU	\$ 857.00
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' + 1 180° Turn Box; Turbulators 4 ft + 10 ft	2 steel tube 5';	TM-1415-SU	1,170.00
20'U : 110/125/150,000 Qty 4 x 10 ft tubes	Flanged aluminized tube + 3 steel tube; 180° Tur	n Box; Turbulator 10 ft	TM-1020-SU	1,244.00
For 30'U Tube Systems: P	rimary Tube Kit + Secondary Tube Kit ship in s	eparate cartons		
Order Both Tube Kit #'s: 2	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° Tur	n Box	TM-0020-SU +	1,213.00
+ 10 ft Secondary Kit	Needed with TM-0020-SU to make 30' U-Tube heaters	3	TM-0010-SU	530.00
	Qty 6 x 10 ft tube	es = 30' U Tube Asser	mbly for 150,000 Burner	1,743.00
Option 2: 175,000 or 200,0	00 x 30' U			
20'U Primary Kit	Flanged stainless steel tube + 1 aluminized tube Turbulator 10 ft; 180° Turn Box	+ 2 steel tube;	TM-A120-SU +	\$ 1,386.00
+ 10 ft Secondary Kit	Needed with TM-A120-SU to make 30' U-Tube heaters	3	TM-0010-SU	530.00
	Qty 6 x 10 ft tubes = 30)' U Tube Assembly for 17	5,000 & 200,000 Burner	1,916.00

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LIST PRICE

TURE KIT#





ITT SERIES - TWO STAGE

[Single Straight Tube - No emissive coat]

Wire hangers allow flexible positioning along system

Suspend with chain, cable, or threaded rod; Supension 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 26 to 29

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

SYSTEM	CAPACITY	TUBE		COMPONENT P	(ITS [individual c	artons]	
KIT MODEL #	INPUT [Btuh]	LENGTH	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2#	LIST PRICE
ITT-80-20-AN	80,000/60,000	20'	NG*	JJ-080T-BN	TM-1420-SX	-	\$ 2,019.00
ITT-80-30-AN		30'		JJ-080T-BN	TM-1430-SX	-	2,204.00
ITT-110-30-AN	110,000/75,000	30'	NG*	JJ-110T-BN	TM-1430-SX	-	2,204.00
ITT-110-30-AL		30'	LP**	JJ-110T-BL	TM-1430-SX	-	2,204.00
ITT-110-40-AN		40'	NG*	JJ-110T-BN	TM-1040-SX	-	2,388.00
ITT-110-40-AL		40'	LP**	JJ-110T-BL	TM-1040-SX	-	2,388.00
ITT-130-30-AN	125,000/90,000	30'	NG Only	JJ-130T-BN	TM-1430-SX	-	2,204.00
ITT-130-40-AN		40'	NG*	JJ-130T-BN	TM-1040-SX	-	2,388.00
ITT-155-40-AN	150,000/110,000	40'	NG*	JJ-155T-BN	TM-1040-SX	-	2,492.00
ITT-155-50-AN		50'	110	JJ-155T-BN	TM-F030-SX	TM-0020-SX	2,822.00
ITT-175-50-AN	175,000/125,000	50'	NG Only	JJ-175T-BN	TM-1030-SX	TM-0020-SX	3,020.00
ITT-175-60-AN		60'	ito omy	JJ-175T-BN	TM-1030-SX	TM-0030-SX	3,217.00
ITT-200-50-AN	200,000/140,000	50'	NG Only	JJ-200T-BN	TM-1030-SX	TM-0020-SX	3,020.00
ITT-200-60-AN		60'		JJ-200T-BN	TM-1030-SX	TM-0030-SX	 3,217.00

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

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

287.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55



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

	MOUNTS TO	FUEL TYPE IN	FLEX GAS		
CAPACITY Btuh	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART #	LIST PRICE
80,000/60,000	20', 30'	N.G.*	1/2" x 24"	JJ-080T-BN	1,359.00
110,000/75,000	30', 40'	N.G.*	1/2" x 24"	JJ-110T-BN \$	1,359.00
110,000/75,000	30', 40'	LP**	1/2" x 24"	JJ-110T-BL	1,359.00
125,000/90,000	30'	N.G. ONLY	1/2" x 24"	JJ-130T-BN	1,359.00
125,000/90,000	40'	N.G.*	172 X21	JJ-130T-BN	1,359.00
150,000/110,000	40', 50'	N.G.*	3/4" X 36"	JJ-155T-BN	1,463.00
175,000/125,000	50', 60'	N.G. ONLY	3/4" X 36"	JJ-175T-BN	1,504.00
200,000/140,000	50', 60' `	N.G. ONLY	3/4" X 36"	JJ-200T-BN	1,504.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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	TUBE KIT #	LIST PRICE	
20' : 80,000	Flanged aluminized tube + 1 steel tube: Turbulators 4 ft + 8 ft	TM-1420-SX	\$ 660.00
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	845.00
40' : 110/125/150,000	Flanged aluminized tube + 1 aluminized tube + 2 steel tubes: Turbulators 2 ft + 10 ft	TM-1040-SX	1,029.00
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	829.00
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	986.00
Secondary Tube K	its [needed for above Primary Kits to make 50' & 60' heaters]		
20'	Two steel tubes [makes 50' heater with either 30' primary]	TM-0020-SX	530.00
30'	Three steel tubes [makes 60' heater with either 30' primary]	TM-0030-SX	726.00
10'	One steel tube, reflector, hangers, tube coupler	TM-1010-SX	359.00
Do not u	se the 10 ft tube kit to extend heater length beyond the maximum length approved for	any input.	

RD: April 1, 2019





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

Supension 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 26 to 29

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

SYSTEM	CAPACITY	TUBE			COMPONENT	KITS [individua	al cartons]	
KIT MODEL#	INPUT [Btuh]	LENGTH F	UEL		Burner Kit #	Tube Kit 1#	Tube Kit 2#	LIST PRICE
ITTU-80-10-AN	80.000/60.000	10'U =	2 x 10'	NG*	JJ-080T-BN	TM-1410-SU	-	\$ 2,215.00
ITTU-80-15-AN	, ,	15'U =	2 x 15'		JJ-080T-BN	TM-1415-SU	-	2,529.00
ITTU-110-15-AN	110,000/75,000	15'U =	2 x 15'	NG	JJ-110T-BN	TM-1415-SU	-	2,529.00
ITTU-110-15-AL	110,000/73,000	15'U =	2 x 15'	LP**	JJ-110T-BL	TM-1415-SU	=	2,529.00
ITTU-110-20-AN	110,000/75,000	20'U =	2 x 20'	NG	JJ-110T-BN	TM-1020-SU	-	2,602.00
ITTU-110-20-AL	110,000/75,000	20'U =	2 x 20'	LP**	JJ-110T-BL	TM-1020-SU	-	2,602.00
ITTU-130-15-AN	125,000/90,000	15'U =	2 x 15'	NG Only	JJ-130T-BN	TM-1415-SU	-	2,529.00
ITTU-130-20-AN	125,000/90,000	20'U =	2 x 20'	NG*	JJ-130T-BN	TM-1020-SU	-	2,602.00
ITTU-155-20-AN	150,000/110,000	20'U =	2 x 20'	NG*	JJ-155T-BN	TM-1020-SU	-	2,707.00
ITTU-155-30-AN	150,000/110,000	30'U =	2 x 30'		JJ-155T-BN	TM-0020-SU	TM-0010-SU	3,206.00
ITTU-175-30-AN	175,000/125,000	30'U =	2 x 30'	NG Only	JJ-175T-BN	TM-A120-SU	TM-0010-SU	3,419.00
ITTU-200-30-AN	200,000/140,000	30'U =	2 x 30'	NG Only	JJ-200T-BN	TM-A120-SU	TM-0010-SU	 3,419.00

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

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 #	<u>LI</u>	ST PRICE*
JS-0569-DT	\$	287.00

RD: April 1, 2019 RL: 19-1A

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55



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

CAPACITY	MOUNTS TO TUBE LENGTHS	FUEL TYPE IN PRODUCTION	FLEX GAS CONNECTOR	PART#	LIST PRICE
80,000/60,000	10'U, 15'U	N.G.*	1/2" x 24"	JJ-080T-BN \$	1,359.00
110,000/75,000	15'U, 20'U	N.G.*	1/2" x 24"	JJ-110T-BN	1,359.00
110,000/75,000 LP **	15' U, 20' U	LP **	1/2" x 24"	JJ-110T-BL	1,359.00
125,000/90,000	15'U	N.G. Only	1/2" x 24"	JJ-130T-BN	1,359.00
125,000/90,000	20' U	N.G.*	1/2" x 24"	JJ-130T-BN	1,359.00
150,000/110,000	20'U, 30'U	N.G.*	3/4" X 36"	JJ-155T-BN	1,463.00
175,000/125,000	30'U	N.G. Only	3/4" X 36"	JJ-175T-BN	1,504.00
200,000/140,000	30'U	N.G. Only	3/4" X 36"	JJ-200T-BN	1,504.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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	TUBE KIT #	LIST PRICE	
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	\$ 857.00
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 tul 180° Turn Box; Turbulators 4 ft + 10 ft	pe 5'; TM-1415-SU	1,170.00
20'U : 110/75, 125/90, 150/110 Qty 4 x 10 ft tubes	Flanged aluminized tube + 3 steel tube; 180° Turn Box; Tu	rbulator 10 ft TM-1020-SU	1,244.00
For 30'U Tube Systems: Pr	imary Tube Kit + Secondary Tube Kit ship in separate	cartons	
Order Both Tube Kit #'s: 2	0 ft Primary Kit appropriate for input + 10 ft Seconda	ry 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 +	1,213.00
+ 10 ft Secondary Kit	Needed with TM-0020-SU to make 30' U-Tube heaters	TM-0010-SU	 530.00
	Qty 6 x 10 ft tubes =	30' U Tube Assembly for 150,000 Burner	1,743.00
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 Turbulator 10 ft; 180° Turn Box	tube; TM-A120-SU +	\$ 1,386.00
+ 10 ft Secondary Kit	Needed with TM-A120-SU to make 30' U-Tube heaters	TM-0010-SU	 530.00
	Qty 6 x 10 ft tubes = 30' U Tube	Assembly for 175,000 & 200,000 Burner	1,916.00



OPTIONAL ACCESSORIES - Page 1 of 3

INDOOR TUBE HEATER MODELS: IQ, ITB/U, ITT/U Thermostats: Page 28

Suspension Hardware:

PART# LIST PRICE

Calculate Quantity [IQ Series: Total Tube Length divided by 10 plus 2 [[Tube Length/10] + 2]

Suspension Points: TITB, ITT Models: Total Tube Length divided by 5 plus 1 [[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

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

Safety Snap Hooks - 2"

'S' Hooks - 1 7/8"







Package of 25

Package of 10

167.00 31.40

228 00

133.00

54.10

JL-0798-SH

JL-0800-XX

JL-0800-SH

JL-0800-SH-B

JI -0800-GR-B

JL-0798-CS 49.80

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

Elbow Kits: Install within the tube system

Models IQ. IW. IWP Modular Elbow Kit:









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

[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 432.00

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

JS-0508-JZ

21.20

216.00

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

160.00

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

320.00



OPTIONAL ACCESSORIES - Page 2 of 3 INDOOR TUBE HEATER MODELS: IQ, ITB/U, ITT/U

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.

PART#

IST PRICE

JS-0532-VC

25.20

Thermostats: Next page

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

4" Outside Air Intake Wall Vent Hood ~ birdscreened

Vent Options:



Flue Vent Terminals:	PART #	LIST PRICE
4" horizontal [through wall]	JA-0528-XX	\$ 34.70
6" horizontal	JA-0529-XX	41 80

^{*} 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

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



JA-0514-XX

177.00

41.80

Optional Couplers for Vent Tee:

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

JA-0516-AA

56.20

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

Dress up your tube heater installations.

Ideal for:

Showrooms



☐ 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 484.00

Reflector Side Extension - All models - 10" deep x 116" long c/w Qty 3 x 'S' hooks JS-0509-KT 64.40

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 119.00

Models: ITB, ITT JA-0780-XS 119.00

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



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

Low Voltage [24V] Digital Thermostat [°F / °C Selectable] Note: Low voltage control enables all features of the ignition control



JS-0569-WR \$

JM-0150-XX

JL-0772-XX

\$

\$

189.00

53.10

89.10

Moisture Proof Thermostat [NEMA 4X enclosure]



JS-0570-XX \$ 129.00

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 \$ 23.80

- 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 \$ 287.00



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

 MODEL
 VOLTAGE
 PART #
 LIST PRICE

 TruTemp Thermostat
 24 volts ac
 JM-0150-XX
 \$ 189.00

FIELD MOUNTED OPTIONS REQUIRED WITH TruTemp THERMOSTAT

- For each SINGLE TUBE HEATER controlled by SINGLE TruTemp

 ORDER
 PART #

 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

\$ 23.80

- 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 TruTemp
 [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



- <u>HIGH INTENSITY</u> HEATERS with EXHAUST FAN controlled by <u>SINGLE TruTemp</u> per ZONE ORDER TruTemp plus this item:

1 Transformer/Relay

[field mounted]



<u>PART #</u> JM-0300-AA \$ 140.00

SECURITY OPTION TO PREVENT UNAUTHORIZED TAMPERING WITH TruTemp SETTINGS

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

Two S/S Tamperproof Screws
[Order for each TruTemp on project]

JM-0180-XX \$ 87.60

JM-0180-AA 8.90



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.

	MODEL	NUMBER OF HE or ZONES	ATERS	PART#	LIST PRICE	
ARENA CONTROL PANELS	ACPT- 8	up to	8	JM-0408-XX	\$	1,574.00
	ACPT-12	up to	2	JM-0412-XX		1,695.00
	ACPT-16	up to	6	JM-0416-XX		1,848.00





- 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



PATIO, OUTDOOR, & WASH BAY

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

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

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 44 & 45

SYSTEM	CAPACITY	TUBE		SYSTEM COMP	ONENT KITS [ind	lividual cartons]	
KIT MODEL #	INPUT [Btuh]	LENGTH	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2 #	LIST PRICE
PU-PJ40-AN	40,000	10'U	NG*			[Details Page	15] \$ 2,430.00
IWP-45-20-AN	45,000	20'	NG*	JJ-045W-BN	TW-1420-JZ	-	2,422.00
IWP-60-20-AN	60,000	20'	NG*	JJ-060W-BN	TW-1420-JZ	-	2,422.00
IWP-60-30-AN		30'	NG	JJ-060W-BN	TW-1430-JZ	-	2,680.00
IWP-80-20-AN	80,000	20'	NG*	JJ-080W-BN	TW-1420-JZ	-	2,422.00
IWP-80-30-AN		30'		JJ-080W-BN	TW-1430-JZ	-	2,680.00
IWP-80-40-AN		40'		JJ-080W-BN	TW-1040-JZ	-	2,977.00
IWP-110-30-AN	110,000	30'	NG*	JJ-110W-BN	TW-1430-JZ	-	2,680.00
IWP-110-30-AL		30'	LP**	JJ-110W-BL	TW-1430-JZ	-	2,680.00
IWP-110-40-AN		40'	NG*	JJ-110W-BN	TW-1040-JZ	-	2,977.00
IWP-110-40-AL		40'	LP**	JJ-110W-BL	TW-1040-JZ	-	2,977.00
IWP-110-50-AN		50'	NG*	JJ-110W-BN	TW-F030-JZ	TW-0020-JZ	3,367.00
IWP-110-50-AL		50'	LP**	JJ-110W-BL	TW-F030-JZ	TW-0020-JZ	3,367.00
IWP-130-30-AN	125,000	30'	NG Only	JJ-130W-BN	TW-1430-JZ	-	2,680.00
IWP-130-40-AN		40'	NG*	JJ-130W-BN	TW-1040-JZ	-	2,977.00
IWP-130-50-AN		50'	NG*	JJ-130W-BN	TW-F030-JZ	TW-0020-JZ	3,367.00
IWP-155-40-AN	150,000	40'	NG*	JJ-155W-BN	TW-1040-JZ	-	3,078.00
IWP-155-50-AN		50'		JJ-155W-BN	TW-F030-JZ	TW-0020-JZ	3,467.00
IWP-155-60-AN		60'		JJ-155W-BN	TW-F030-JZ	TW-0030-JZ	3,737.00
IWP-175-50-AL	175,000	50'	LP**	JJ-175W-BL	TW-1030-JZ	TW-0020-JZ	3,689.00
IWP-175-50-AN		50'	NG*	JJ-175W-BN	TW-1030-JZ	TW-0020-JZ	3,689.00
IWP-175-60-AL		60'	LP**	JJ-175W-BL	TW-1030-JZ	TW-0030-JZ	3,958.00
IWP-175-60-AN		60'	NG*	JJ-175W-BN	TW-1030-JZ	TW-0030-JZ	3,958.00
IWP-175-70-AN		70'	NG Only	JJ-175W-BN	TW-1030-JZ	TW-0040-JZ	4,243.00
IWP-200-50-AN	200,000	50'	NG Only	JJ-200W-BN	TW-1030-JZ	TW-0020-JZ	3,689.00
IWP-200-60-AL		60'	LP**	JJ-200W-BL	TW-1030-JZ	TW-0030-JZ	3,958.00
IWP-200-60-AN		60'	NG*	JJ-200W-BN	TW-1030-JZ	TW-0030-JZ	3,958.00
IWP-200-70-AL		70'	LP**	JJ-200W-BL	TW-1030-JZ	TW-0040-JZ	4,243.00
IWP-200-70-AN		70'	NG*	JJ-200W-BN	TW-1030-JZ	TW-0040-JZ	4,243.00
***************************************			***************************************		***************************************		

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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.

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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.

	MOUNTS TO	FUEL TYPE IN	FLEX GAS		
CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	LIST PRICE
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-045W-BN	1,607.00
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-060W-BN	1,607.00
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-080W-BN	1,607.00
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-110W-BN	1,607.00
110,000 Btuh LP **	30', 40', 50'	L.P.**	1/2" x 24"	JJ-110W-BL	1,607.00
125,000 Btuh	30'	N.G. Only	1/2" x 24"	JJ-130W-BN	1,607.00
125,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-130W-BN	1,607.00
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-155W-BN	1,708.00
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-175W-BN	1,749.00
175,000 Btuh LP **	50', 60'	L.P.**	3/4" X 36"	JJ-175W-BL	1,749.00
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-200W-BN	1,749.00
200,000 Btuh LP **	60', 70'	L.P.**	3/4" X 36"	JJ-200W-BL	1,749.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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 T	TUBE KIT #		LIST PRICE			
20' : 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	TW-1420-JZ \$			
30' : 60/80/110/125,	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		1,073.00		
40': 80/110/125/150	0': 80/110/125/150,000 Flanged Aluminized steel tube + 3 emissive coated aluminized tubes TW-1040-JZ Turbulators 2 ft + 10 ft			1,370.00		
Primary Tube Kits [require a Secondary Kit to make 50', 60' & 70' heaters]						
30': 110/125/150,00	Aluminized steel: Flanged tube + 2 emissive coated tubes: Turbulator 2 ft	TW-F030-JZ		1,043.00		
30' : 175/200,000	Flanged stainless tube + 1 aluminized steel tube + 1 emissive coated aluminized tube: Turbulator 10 ft	TW-1030-JZ		1,223.00		
Secondary Tube Kits [needed for above Primary Kits to make 50', 60' & 70' heaters]						
20' Tw	emissive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ		717.00		
30' Three emissive coated aluminized tubes [makes 60' heater with either 30' primary] TW-0030-JZ						
40' Fou	Four emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ] TW-0040-JZ					
	One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler TW-1010-JZ 444.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.					



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

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 44 & 45

SYSTEM	CAPACITY	TUBE		SYSTEM COMP	ONENT KITS [ind	lividual cartons]		
KIT MODEL #	INPUT [Btuh]	LENGTH	I FUEL	Burner Kit #	Tube Kit 1#	Tube Kit 2#		LIST PRICE
IWP2-80-20-AN	78/58,000	20'	NG*	JJ-TW08-BN	TW-1420-JZ	-	\$	2,553.00
IWP2-80-30-AN		30'	NG*	JJ-TW08-BN	TW-1430-JZ	-		2,810.00
IWP2-110-30-AN	110/80,000	30'	NG*	JJ-TW11-BN	TW-1430-JZ	-		2,810.00
IWP2-110-30-AL	108/70,000	30'	LP**	JJ-TW11-BL	TW-1430-JZ	-		2,810.00
IWP2-110-40-AN		40'	NG*	JJ-TW11-BN	TW-1040-JZ	-		3,108.00
IWP2-110-40-AL		40'	LP**	JJ-TW11-BL	TW-1040-JZ	-		3,108.00
IWP2-130-30-AN	120/85,000	30'	NG Only	JJ-TW13-BN	TW-1430-JZ	-		2,810.00
IWP2-130-40-AN		40'	NG*	JJ-TW13-BN	TW-1040-JZ	-		3,108.00
IWP2-155-40-AN	150/110,000	40'	NG*	JJ-TW15-BN	TW-1040-JZ	-		3,209.00
IWP2-155-50-AN		50'	NG*	JJ-TW15-BN	TW-F030-JZ	TW-0020-JZ		3,599.00
175 & 200 Model	s not suitable	e for pa	tio applicat	ion				
IWP2-175-50-AN	162/115,000	50'	NG Only	JJ-TW17-BN	TW-1030-JZ	TW-0020-JZ	\$	3,819.00
IWP2-175-60-AN		60'	NG Only	JJ-TW17-BN	TW-1030-JZ	TW-0030-JZ		4,089.00
IWP2-200-50-AN	195/140,000	50'	NG Only	JJ-TW20-BN	TW-1030-JZ	TW-0020-JZ	•••••••••••	3,819.00
IWP2-200-60-AN		60'	NG Only	JJ-TW20-BN	TW-1030-JZ	TW-0030-JZ		4.089.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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.

	ACTUAL	MOUNTS TO	FUEL TYPE IN	FLEX GAS		
MODEL	CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	LIST PRICE
80/60	78 / 58,000	20', 30'	N.G.*	1/2" x 24"	JJ-TW08-BN	\$ 1,738.00
110/75	110 / 80,000	30', 40'	N.G.*	1/2" x 24"	JJ-TW11-BN	1,738.00
	108 / 70,000 L.P.**	30', 40'	L.P.**	1/2" x 24"	JJ-TW11-BL	1,738.00
130/90	120 / 85,000	30'	N.G. Only	1/2" x 24"	JJ-TW13-BN	1,738.00
	120 / 85,000	40'	N.G.*	1/2" x 24"	JJ-TW13-BN	1,738.00
155/110	150 / 110,000	40', 50'	N.G.*	3/4" X 36"	JJ-TW15-BN	1,839.00
175/125	162 / 115,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TW17-BN	1,881.00
200/140	195 / 140,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TW20-BN	1,881.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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]	TUBE KIT #		LIST PRICE			
20' : 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$	815.00			
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		1,073.00			
40': 80/110/125/150,000	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ		1,370.00			
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		1,043.00			
30' : 175/200,000	Flanged stainless tube + 2 emissive coated aluminized tubes: Turbulator 10 ft	TW-1030-JZ		1,223.00			
Secondary Tube Kits [needed for above Primary Kits to make 50', 60' & 70' heaters]							
20' Two em	issive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ		717.00			
30' Three emissive coated aluminized tubes [makes 60' heater with either 30' primary] TW-0030-JZ							
40' Four en	Four emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ] TW-0040-JZ						
	10' One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler TW-1010-JZ 444.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.						

^{**} Burner can be ordered LP see notes page 55





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 44 & 45

SYSTEM	CAPACITY	TUBE		SYSTEM COMPONENT KITS [individual cartons]			
KIT MODEL#	INPUT [Btuh]	LENGTH	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2 #	LIST PRICE
PU-W040-AN	40,000	10'U	NG*	[U-Tube; Facto	ry Assembled in	Carton - details Page 15]	\$ 2,723.00
IW-45-20-AN	45,000	20'	NG*	JJ-P045-BN	TW-1420-JZ	-	2,716.00
IW-60-20-AN	60,000	20'	NG*	JJ-P060-BN	TW-1420-JZ	-	2,716.00
IW-60-30-AN		30'	NG	JJ-P060-BN	TW-1430-JZ	-	2,974.00
IW-80-20-AN	80,000	20'	NG*	JJ-P080-BN	TW-1420-JZ	-	2,716.00
IW-80-30-AN		30'		JJ-P080-BN	TW-1430-JZ	-	2,974.00
IW-80-40-AN		40'		JJ-P080-BN	TW-1040-JZ	-	3,271.00
IW-110-30-AN	110,000	30'	NG*	JJ-P110-BN	TW-1430-JZ	-	2,974.00
IW-110-30-AL	110,000	30'	LP**	JJ-P110-BL	TW-1430-JZ	-	2,974.00
IW-110-40-AN		40'	NG*	JJ-P110-BN	TW-1040-JZ	-	3,271.00
IW-110-40-AL		40'	LP**	JJ-P110-BL	TW-1040-JZ	-	3,271.00
IW-110-50-AN		50'	NG*	JJ-P110-BN	TW-F030-JZ	TW-0020-JZ	3,661.00
IW-110-50-AL		50'	LP**	JJ-P110-BL	TW-F030-JZ	TW-0020-JZ	3,661.00
IW-130-30-AN	125,000	30'	NG Only	JJ-P130-BN	TW-1430-JZ	-	2,974.00
IW-130-40-AN		40'	NG*	JJ-P130-BN	TW-1040-JZ	-	3,271.00
IW-130-50-AN		50'	NG*	JJ-P130-BN	TW-F030-JZ	TW-0020-JZ	3,661.00
IW-155-40-AN	150,000	40'	NG*	JJ-P155-BN	TW-1040-JZ	-	3,343.00
IW-155-50-AN		50'		JJ-P155-BN	TW-F030-JZ	TW-0020-JZ	3,733.00
IW-155-60-AN		60'		JJ-P155-BN	TW-F030-JZ	TW-0030-JZ	4,002.00
IW-175-50-AL	175,000	50'	LP**	JJ-P175-BL	TW-1030-JZ	TW-0020-JZ	3,982.00
IW-175-50-AN		50'	NG*	JJ-P175-BN	TW-1030-JZ	TW-0020-JZ	3,982.00
IW-175-60-AL		60'	LP**	JJ-P175-BL	TW-1030-JZ	TW-0030-JZ	4,252.00
IW-175-60-AN		60'	NG*	JJ-P175-BN	TW-1030-JZ	TW-0030-JZ	4,252.00
IW-175-70-AN		70'	NG Only	JJ-P175-BN	TW-1030-JZ	TW-0040-JZ	4,536.00
IW-200-50-AN	200,000	50'	NG Only	JJ-P200-BN	TW-1030-JZ	TW-0020-JZ	3,982.00
IW-200-60-AL		60'	LP**	JJ-P200-BL	TW-1030-JZ	TW-0030-JZ	4,252.00
IW-200-60-AN		60'	NG*	JJ-P200-BN	TW-1030-JZ	TW-0030-JZ	4,252.00
IW-200-70-AL		70'	LP**	JJ-P200-BL	TW-1030-JZ	TW-0040-JZ	4,536.00
IW-200-70-AN		70'	NG*	JJ-P200-BN	TW-1030-JZ	TW-0040-JZ	4,536.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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.

	MOUNTS TO	FUEL TYPE IN	FLEX GAS			
CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART #	<u>LI</u>	ST PRICE
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-P045-BN	\$	1,901.00
60,000 Btuh	20', 30'	N.G.*	1/2" x 24"	JJ-P060-BN		1,901.00
80,000 Btuh	20', 30', 40'	N.G.*	1/2" x 24"	JJ-P080-BN		1,901.00
110,000 Btuh	30', 40', 50'	N.G.*	1/2" x 24"	JJ-P110-BN		1,901.00
110,000 Btuh LP **	30', 40', 50'	LP**	1/2" x 24"	JJ-P110-BL		1,901.00
125,000 Btuh	30'	N.G. Only	1/2" x 24"	JJ-P130-BN		1,901.00
125,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-P130-BN		1,901.00
150,000 Btuh	40', 50', 60'	N.G.*	3/4" X 36"	JJ-P155-BN		1,973.00
175,000 Btuh	50', 60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-P175-BN		2,043.00
175,000 Btuh LP **	50', 60'	LP**	3/4" X 36"	JJ-P175-BL		2,043.00
200,000 Btuh	50', 60', 70'	N.G.*	3/4" X 36"	JJ-P200-BN		2,043.00
200,000 Btuh LP **	60', 70'	LP**	3/4" X 36"	JJ-P200-BL		2,043.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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]

Stand-Alone Tu	be Kits [do not require any additional Tube Kit]	TUBE KIT #		LIST PRICE		
20' : 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$	815.00		
30' : 60/80/110/125,00	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		1,073.00		
40': 80/110/125/150,0	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ		1,370.00		
Primary Tube K	its [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		1,043.00		
30' : 175/200,000	Flanged stainless tube + 1 aluminized steel tube + 1 emissive coated aluminized tube: Turbulator 10 ft	TW-1030-JZ		1,223.00		
Secondary Tub	e Kits [needed with 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		717.00		
30' Thre	e emissive coated aluminized tubes [makes 60' heater with either 30' primary]	TW-0030-JZ		986.00		
40' Four	emissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ		1,271.00		
10' One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler TW-1010-JZ 444.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.						



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

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 44 & 45

SYSTEM	CAPACITY	TUBE		SYSTEM COMP	ONENT KITS [inc	lividual cartons]	
KIT MODEL #	INPUT [Btuh]	LENGTH	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2#	LIST PRICE
IW2-80-20-AN	78/58,000	20'	NG*	JJ-TP08-BN	TW-1420-JZ	-	\$ 2,847.00
IW2-80-30-AN		30'	NG*	JJ-TP08-BN	TW-1430-JZ	-	3,104.00
IW2-110-30-AN	110/80,000	30'	NG*	JJ-TP11-BN	TW-1430-JZ	-	3,104.00
IW2-110-30-AL	108/70,000	30'	LP**	JJ-TP11-BL	TW-1430-JZ	-	3,104.00
IW2-110-40-AN		40'	NG*	JJ-TP11-BN	TW-1040-JZ	-	3,401.00
IW2-110-40-AL		40'	LP**	JJ-TP11-BL	TW-1040-JZ	-	3,401.00
IW2-130-30-AN	120/85,000	30'	NG Only	JJ-TP13-BN	TW-1430-JZ	-	3,104.00
IW2-130-40-AN		40'	NG*	JJ-TP13-BN	TW-1040-JZ	-	3,401.00
IW2-155-40-AN	150/110,000	40'	NG*	JJ-TP15-BN	TW-1040-JZ	-	3,488.00
IW2-155-50-AN		50'	NG*	JJ-TP15-BN	TW-F030-JZ	TW-0020-JZ	3,878.00
175 & 200 Models	s not suitable	e for Pat	tio applica	tion			
IW2-175-50-AN	162/115,000	50'	NG Only	JJ-TP17-BN	TW-1030-JZ	TW-0020-JZ	\$ 4,116.00
IW2-175-60-AN		60'	NG Only	JJ-TP17-BN	TW-1030-JZ	TW-0030-JZ	4,386.00
IW2-200-50-AN	195/140,000	50'	NG Only	JJ-TP20-BN	TW-1030-JZ	TW-0020-JZ	4,116.00
IW2-200-60-AN		60'	NG Only	JJ-TP20-BN	TW-1030-JZ	TW-0030-JZ	4,386.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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.

	ACTUAL	MOUNTS TO	FUEL TYPE IN	FLEX GAS		
MODEL	CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	LIST PRICE
80/60	78 / 58,000	20', 30'	N.G.*	1/2" x 24"	JJ-TP08-BN	\$ 2,031.00
110/75	110 / 80,000	30', 40'	N.G.*	1/2" x 24"	JJ-TP11-BN	2,031.00
	108 / 70,000 L.P.**	30', 40'	L.P.**	1/2" x 24"	JJ-TP11-BL	2,031.00
130/90	120 / 85,000	30'	N.G. Only	1/2" x 24"	JJ-TP13-BN	2,031.00
	120 / 85,000	40'	N.G.*	1/2" x 24"	JJ-TP13-BN	2,031.00
155/110	150 / 110,000	40', 50'	N.G.*	3/4" X 36"	JJ-TP15-BN	2,119.00
175/125	162 / 115,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TP17-BN	2,178.00
200/140	195 / 140,000	50', 60'	N.G. Only	3/4" X 36"	JJ-TP20-BN	2,178.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

Aluminized Steel Tube Kits: IW2 & IW 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]	TUBE KIT #		LIST PRICE		
20' : 45/60/80,000	Aluminized steel: Flanged tube + 1 emissive coated tube: Turbulators 4 ft + 8 ft	TW-1420-JZ	\$	815.00		
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		1,073.00		
40': 80/110/125/150,000	Flanged Aluminized steel tube + 3 emissive coated aluminized tubes Turbulators 2 ft + 10 ft	TW-1040-JZ		1,370.00		
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		1,043.00		
30' : 175/200,000	Flanged stainless tube + 2 emissive coated aluminized tubes: Turbulator 10 ft	TW-1030-JZ		1,223.00		
Secondary Tube K	Lits [needed for above Primary Kits to make 50', 60' & 70' heaters]					
20' Two em	nissive coated aluminized tubes [makes 50' heater with either 30' primary]	TW-0020-JZ		717.00		
30' Three 6	missive coated aluminized tubes [makes 60' heater with either 30' primary]	TW-0030-JZ		986.00		
40' Four er	nissive coated aluminized tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ		1,271.00		
10' One emissive coated aluminized tube, reflector, reflector braces, hanger, tube coupler TW-1010-JZ 444.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.						

^{**} Burner can be ordered LP see notes page 55





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 44 & 45

SYSTEM	CAPACITY	TUBE		SYSTEM COME	PONENT KITS [ind	ividual cartons]	
KIT MODEL #	INPUT [Btuh]	LENGTH	<u>FUEL</u>	Burner Kit #	Tube Kit 1#	Tube Kit 2#	LIST PRICE
IWS-45-20-AN	45,000	20'	NG*	JJ-P045-BN	TW-1420-JZ-2	-	\$ 3,865.00
IWS-60-30-AN	60,000	30'	NG*	JJ-P060-BN	TW-1430-JZ-2	-	4,607.00
IWS-80-30-AN	80,000	30'	NG*	JJ-P080-BN	TW-1430-JZ-2	-	4,607.00
IWS-80-40-AN		40'		JJ-P080-BN	TW-1040-JZ-2	-	5,348.00
IWS-110-40-AN	110,000	40'	NG*	JJ-P110-BN	TW-1040-JZ-2	-	5,348.00
IWS-110-40-AL		40'	LP**	JJ-P110-BL	TW-1040-JZ-2	-	5,348.00
IWS-110-50-AN		50'	NG*	JJ-P110-BN	TW-F030-JZ-2	TW-0020-JZ-2	6,324.00
IWS-110-50-AL		50'	LP**	JJ-P110-BL	TW-F030-JZ-2	TW-0020-JZ-2	6,324.00
IWS-130-40-AN	125,000	40'	NG*	JJ-P130-BN	TW-1040-JZ-2	-	5,348.00
IWS-130-50-AN		50'		JJ-P130-BN	TW-F030-JZ-2	TW-0020-JZ-2	6,324.00
IWS-155-50-AN	150,000	50'	NG*	JJ-P155-BN	TW-F030-JZ-2	TW-0020-JZ-2	6,396.00
IWS-155-60-AN		60'		JJ-P155-BN	TW-F030-JZ-2	TW-0030-JZ-2	7,138.00
IWS-175-60-AL	175,000	60'	LP**	JJ-P175-BL	TW-1030-JZ-2	TW-0030-JZ-2	7,208.00
IWS-175-60-AN		60'	NG*	JJ-P175-BN	TW-1030-JZ-2	TW-0030-JZ-2	7,208.00
IWS-175-70-AN		70'	NG* Only	JJ-P175-BN	TW-1030-JZ-2	TW-0040-JZ-2	7,949.00
IWS-200-60-AL	200,000	60'	LP**	JJ-P200-BL	TW-1030-JZ-2	TW-0030-JZ-2	7,208.00
IWS-200-60-AN		60'	NG*	JJ-P200-BN	TW-1030-JZ-2	TW-0030-JZ-2	7,208.00
IWS-200-70-AL		70'	LP**	JJ-P200-BL	TW-1030-JZ-2	TW-0040-JZ-2	7,949.00
IWS-200-70-AN		70'	NG*	JJ-P200-BN	TW-1030-JZ-2	TW-0040-JZ-2	7,949.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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 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.

	MOUNTS TO	FUEL TYPE IN	FLEX GAS		
CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART #	LIST PRICE
45,000 Btuh	20'	N.G.*	1/2" x 24"	JJ-P045-BN	\$ 1,901.00
60,000 Btuh	30'	N.G.*	1/2" x 24"	JJ-P060-BN	1,901.00
80,000 Btuh	30', 40'	N.G.*	1/2" x 24"	JJ-P080-BN	1,901.00
110,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-P110-BN	1,901.00
110,000 Btuh LP **	40', 50'	L.P.**	1/2" x 24"	JJ-P110-BL	1,901.00
125,000 Btuh	40', 50'	N.G.*	1/2" x 24"	JJ-P130-BN	1,901.00
150,000 Btuh	50', 60'	N.G.*	3/4" X 36"	JJ-P155-BN	1,973.00
175,000 Btuh	60', 70'	N.G.* [70' is NG Only]	3/4" X 36"	JJ-P175-BN	2,043.00
175,000 Btuh LP **	60'	L.P.**	3/4" X 36"	JJ-P175-BL	2,043.00
200,000 Btuh	60', 70'	N.G.*	3/4" X 36"	JJ-P200-BN	2,043.00
200,000 Btuh LP **	60', 70'	L.P.**	3/4" X 36"	JJ-P200-BL	2,043.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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	TUBE KIT #		LIST PRICE						
20' : 45,000	Stainless steel Flanged tube + 1 stainless steel tube: Turbulators 4 ft + 8 ft	TW-1420-JZ-2	\$	1,965.00					
30' : 60,000/80,000	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 8 ft	TW-1430-JZ-2		2,707.00					
40' : 80/110/125,000	Stainless steel Flanged tube + 3 stainless steel tubes: Turbulators 2 ft + 10 ft	TW-1040-JZ-2		3,447.00					
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		2,707.00					
30' : 175/200,000	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 10 ft	TW-1030-JZ-2		2,707.00					
Secondary Tube K	its [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]	TW-0020-JZ-2		1,717.00					
	50 ft systems for inputs 110,000, 125,000, & 150,000 only								
30'	Three stainless steel tubes [makes 60' heater with either 30' primary]	TW-0030-JZ-2		2,459.00					
40'	Four stainless steel tubes [makes 70' heater with 30' primary TW-1030-JZ]	TW-0040-JZ-2		3,200.00					
10' Do not u	10' One stainless steel tube, reflector, reflector braces, hanger, tube coupler TW-1010-JZ-2 977.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.								



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
- Factory Mounted Igniter

COMPLETE TUBE HEATER SYSTEMS:

OPTIONAL ACCESSORIES PAGES 44 & 45

SYSTEM KIT MODEL #	CAPACITY INPUT [Btuh]	TUBE LENGTH	<u>FUEL</u>	SYSTEM COMP Burner Kit #	ONENT KITS [indi	ividual cartons] Tube Kit 2 #	LIST PRICE
IW2S-80-30-AN	78/58,000	30'	NG*	JJ-TP08-BN	TW-1430-JZ-2	-	\$ 4,738.00
IW2S-110-40-AN	110/80,000	40'	NG*	JJ-TP11-BN	TW-1040-JZ-2	-	5,478.00
IW2S-110-40-AL	108/70,000	40'	LP**	JJ-TP11-BL	TW-1040-JZ-2	-	5,478.00
IW2S-130-40-AN	120/85,000	40'	NG*	JJ-TP13-BN	TW-1040-JZ-2	-	5,478.00
IW2S-155-50-AN	150/110,000	50'	NG*	JJ-TP15-BN	TW-F030-JZ-2	TW-0020-JZ-2	6,543.00
175 & 200 Model	s not suitable	e for Pa	tio applic	ation			
IW2S-175-60-AN	162/115,000	60'	NG Only	JJ-TP17-BN	TW-1030-JZ-2	TW-0030-JZ-2	7,344.00
IW2S-200-60-AN	195/140,000	60'	NG Only	JJ-TP20-BN	TW-1030-JZ-2	TW-0030-JZ-2	7,344.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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.

	ACTUAL	MOUNTS TO	FUEL TYPE IN	FLEX GAS		
MODEL	CAPACITY	TUBE LENGTHS	PRODUCTION	CONNECTOR	PART#	LIST PRICE
80/60	78 / 58,000	30'	N.G.*	1/2" x 24"	JJ-TP08-BN	\$ 2,031.00
110/75	110 / 80,000	40'	N.G.*	1/2" x 24"	JJ-TP11-BN	2,031.00
110/75	108 / 70,000 L.P.**	40'	L.P.**	1/2" x 24"	JJ-TP11-BL	2,031.00
130/90	120 / 85,000	40'	N.G.*	1/2" x 24"	JJ-TP13-BN	2,031.00
155/110	150 / 110,000	50'	N.G.*	3/4" X 36"	JJ-TP15-BN	2,119.00
175/125	162 / 115,000	60'	N.G. Only	3/4" X 36"	JJ-TP17-BN	2,178.00
200/140	195 / 140,000	60'	N.G. Only	3/4" X 36"	JJ-TP20-BN	2,178.00

^{*} Field conversion kits required for LP fuel are listed on page 55; ** Burner can be ordered LP see notes page 55

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

Stand-Alone Tube	Kits [do not require any additional Tube Kit]	TUBE KIT #	LIST PRICE				
30' : 80/60	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 8 ft	TW-1430-JZ-2	2,707.00				
40' : 110/75, 130/90	Stainless steel Flanged tube + 3 stainless steel tubes: Turbulators 2 ft + 10 ft	TW-1040-JZ-2	3,447.00				
Primary Tube Kits	[require a Secondary Kit to make 50', 60' & 70' heaters]						
30' : 155/110	Stainless steel Flanged tube + 2 stainless steel tubes: No Turbulator	TW-F030-JZ-2	2,707.00				
30' : 175/125, 200/140	Stainless steel Flanged tube + 2 stainless steel tubes: Turbulator 10 ft	TW-1030-JZ-2	2,707.00				
Secondary Tube K	its [needed with above Primary Kits to make 50' & 60' heaters]						
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	1,717.00				
30'	Three stainless steel tubes [makes 60' heater with either 30' Primary Kit]	TW-0030-JZ-2	2,459.00				
10' One stainless steel tube, reflector, reflector braces, hanger, tube coupler TW-1010-JZ-2 977.00 Do not use the 10 ft tube kit to extend heater length beyond the maximum length approved for any input.							

^{**} Burner can be ordered LP see notes page 55



OPTIONAL ACCESSORIES - Page 1 of 2 IWP. IW & IW2 TUBE HEATERS

Wet Environment & Outdoor Temperature Control:

NEMA 4X Rated Thermostat



PART#	LIST PRICE
JS-0570-XX	\$ 129.00

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

Hanging Chain:

PART#

LIST PRICE

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

IW, IWP Series heater = [[heater tube length/10] + 2] x length of chain at each suspension point

JL-0800-XX 133.00

Quantity of Chain required:

ie: IWP 40 ft heater 3 ft below structural support = [[40/10] +2] x 3 = 18 ft of chain

Safety Snap Hooks - 2"



Package of 24 JL-0800-SH 54.10 JL-0800-SH-B 167.00 Package of 100

'S' Hooks - $1^{7}/_{8}$ " - Package of 25

JL-0798-SH

31.40

Quantity of 'Snap' or 'S' Hooks:

IW, IWP Series quantity required = [[tube length/10] x 2] + 4 : ie: SPW-JZ x 40 ft = [40/10] x 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 49.80

Vent Options:



Flue Vent Terminals:	PART #	<u>LI</u>	<u>IST PRICE</u>
4" horizontal [through wall]	JA-0528-XX	\$	34.70
6" horizontal	JA-0529-XX		41.80

Horizontal / Wall Terminal*

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

Optional Couplers for Vent Tee:

JA-0514-XX 177.00

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-0516-AA 56.20

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

4" Aluminized Steel Tube Coupler [quantity for system assembly ships with heater] JA-0516-SW 22.80 JA-0516-SS - Coupler also available in Stainless Steel 28.70

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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 Pla	te]

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

Qty 2 x JS-0508-JZ 432.00

\$

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

JS-0508-JZ-2

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

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

JS-0504-JZ

JS-0508-JZ

21.20

216.00

559.00

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

484.00

Reflector Side Extension Extension

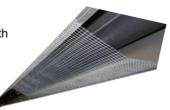
- IW & IWP models - 10" deep x 116" long c/w Qty 3 x 'S' hooks

JS-0509-KT

64.40

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

119.00



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

- Cas fired infrared radiant heat is ideal for "spot comfort" applications like patios, waiting lines, and smoking areas.
- A Besides temperature, wind-chill is the greatest opponent to comfort any wind break will improve outdoor comfort.
- A 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	✓	✓			
Canopy / Roof Over	\checkmark	V	✓	✓	✓
Enclosed Area	\checkmark	V	✓	✓	✓
Coastal Salt-Air Location	✓	✓		✓	
Perimeter Mount	✓	✓	✓	✓	✓
Permanent Mount	✓	✓	✓	✓	✓
Central Panel Control	✓	✓	✓	✓	✓
Remote Hand Set Control	✓	✓	✓	✓	
Natural Gas or Propane	√√√	√ √ √	✓	✓	

- 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
- ☑ 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

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- **IWP** Powder coated burner housing for standard covered or enclosed patio application
- IW Stainless steel burner housing for harsh or salt-air environments

EL / ELD 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 Coat
Marine Grade 316 Stainless Steel Outer Cabinet

Outdoor IO-100 Series

MODEL	<u>INPUT</u>	<u>FINISH</u>	GAS	PART #	LIST	PRICE
IO-135	35,000	Black High Temperature Coat on 316 Stainless	NG LP	IO-0135-NG IO-0135-LP	\$	2,184.00 2,184.00
IO-150	50,000	Black High Temperature Coat on 316 Stainless	NG LP	IO-0150-NG IO-0150-LP		2,363.00 2,363.00
IO-135-SS	35,000	Marine Grade Stainless Steel [316]	NG LP	IO-0135-SN IO-0135-SL		2,184.00 2,184.00
IO-150-SS	50,000	Marine Grade Stainless Steel [316]	NG LP	IO-0150-SN IO-0150-SL		2,363.00 2,363.00
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	\$	2,599.00
IO-152-SS	50/36,500	2-Stage - Marine Grade Stainless Steel	NG	IO-0152-SN		2,599.00

Outdoor IO-210 SERIES

Marine Grade Stainless Steel Housing with Black Emissive Coating

- Helps preserve appearance
- Increases IR output



			Minimum			
MODEL	<u>INPUT</u>	FINISH - Including Lens Cover	Mounting Height	PART#	LIST	PRICE
IO 212	23,000	Marine Grade S/S BLACK - High Temperature	8 ft	IO-0212-NG	\$	2,418.00
				IO-0212-LP		2,418.00
IO 213	35,000	Marine Grade S/S BLACK - High Temperature	8 ft 6 in	IO-0213-NG		2,820.00
				IO-0213-LP		2,820.00
2-Stage	~ 50,000	Btuh High Stage; 35,000 Btuh Low Sta	ge - Natural Gas	Only		
IO 252	50/35000	Marine Grade S/S BLACK - High Temperature	9 ft	IO-0252-NG	\$	2,846.00
See 2-Sta	ae Illumir	nated Switch control options previous page				

IO-100 & IO-210 Series Gas Connection

Black Finish Stainless Steel Flexible Gas Connector 3/8" x 24"	JL-0771-OD	\$ 58.40
Flexible Gas Connector 1/2" x 24"	JL-0771-XX	44.40

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

Mounting Options: Next page

Controls and 24 VAC guidelines pages 49 - 50

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



MOUNTING OPTIONS

IO-100 & IO-210 SERIES HEATERS

	PART#	LIST PRICE
Wall Mount Brackets: Mount heater at 30° angle, and combustible clearance from wa	all	
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 Stainless		\$ 201.00 246.00
Wall Mount Bracket: Models IO-212, IO-213 Only:		
Mounts heater at combustible clearance from wall @ 30° Painted Stainless		\$ 201.00 213.00
4" Pole Mount Assembly:		
IO-100 & IO-210 Series Pole Clamp + Heater Bracket Painted	d Steel JP-2300-PK	\$ 189.00
Stainless	s Steel JP-2300-PK-SS	202.00
Wall Mount Arm Kit		
IO-100 & IO-210 Series		
Locates heater 30 inches from mounting surface at 30° Angle Stainless	ted Steel JP-2300-MK	\$ 297.00 410.00
Hardware needed for fastening to structure is field supplied	3 Cleer 31 -2300-WIN-33	410.00
7 (178mm) 2 · 2 2 3 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Ceiling Mount Kit IO-100 & IO-210 Series Ceiling Mount Kit is Stainless Steel construction ONLY	s JP-2100-CB-K	\$ 158.00
One end shown only - two brackets are supplied		
With the American Control of the Con		
Remote & natioPanel Controls ~ See Next Page for information, size	as & nricina ~	

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





JP-1236-RK \$ 210.00



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

JP-1236-HS

JP-1236-KT

110.00

147.00

- 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



- 3) Wireless Remote Control Keypad Transmitter: OPTIONAL [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.

MODEL_	HEATERS	PART#	LIST PRICE
PCP-4	Up To 4	JM-0204-NT	\$ 353.00
PCP-8	Up To 8	JM-0208-NT	\$ 443.00
PCP-12	Up To 12	JM-0212-NT	\$ 513.00

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-0203-TS

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

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

24VAC SWITCH				
Single Switch Gang				
Double Switch Gang				
Triple Switch Gang				

<u>CONTROL</u>
1 Zone of 1 To 4 Heaters
2 Zones: 2 To 8 Heaters
3 Zones: 3 To 12 Heaters

PART #	LIST PRICE
JM-0201-TS	\$ 81.70
JM-0202-TS	146.00
JM-0203-TS	210.00

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

	HEATER			
SIZE	QTY		PART#	LIST PRICE
40 VA Transformer	1	4"x 4" Electrical Box Mount	JL-0776-XX	\$ 95.50
100 VA Transformer	Up to 4	Closed Type	JL-0778-XX	177.00
150 VA Transformer	Up to 6	Closed Type	JL-0779-XX	213.00
200 VA Transformer	Up to 9	Closed Type	JL-0780-XX	243.00
250 VA Transformer	Up to 11	Closed Type	JL-0781-XX	265.00
350 VA Transformer	Up to 16	Closed Type	JL-0781-AA	310.00

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

RD: April 1, 2019



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



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 32 to 35 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 36 to 39 for information on the IW & IW2
See Pages 40 to 43 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 44 & 45



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

n Housing for 20 lb tank [L.P. tank not included]

Three year commercial use warranty on burner



Portable 4005-CB* Stainless Steel Finish

 MODEL
 FINISH
 Gas Type
 INPUT
 ORDER PART #
 LIST PRICE

 4005-CB*
 Stainless Steel [304]
 LP Gas Only
 38,000 Btuh
 PS-4005-CB
 \$ 941.00

+ 2: Reflector JP-4070-CB

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

MODEL	FINISH	FUEL TYPE	INPUT	ORDER PART #	LIST	PRICE
4SN5-CB**	Stainless Steel [304]	Nat. Gas Only	38,000 Btuh	PS-4SN5-CB	\$	1,136.00
**	Ships in three separate cartons	: 1: Burner Head	d & Heater Base	JP-4SN5-CB		
		+ 2: One Piece F	Post	JP-4PST-SS		
		+ 3: Reflector		JP-4070-CB		
NOTE: N		f	0 1-		4-11	

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 \$ 125.00

Base weight for 4005 portable heater JP-4089-XX 36.10

^{*} Ships in two separate cartons: 1: Burner, post, tank cover, base





Applications:

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

EL/ELD electricSeries IR Heater Mid - Wave IR for Instant Comfort

Standard heaters are Stianless Steel

Available in "Indoor", and "Outdoor / Indoor" models

Heaters greater than 240 Volts are for "Commercial Use Only. Risk of fire. Do not use as a residential or household heater."

 $A vailable\ in\ 500,\ 750,\ 1000,\ 1500,\ 2000,\ 2500,\ 3000,\ 4000,\ 5000,\ and\ 6000\ Watts$

Available in 120, 208, 240, *277, and *480 Volts

<u>Model</u>	Application	Capacity	<u>Elect</u>	<u>rical</u>	Part #	Lis	st Price
			Voltage	Amps			
EL-519	Outdoor / Indoor **	500 Watts	120Vac	4.2	EL-0519-12	\$	536.00
EL-719	Outdoor / Indoor **	750 Watts	120Vac	6.3	EL-0719-12		536.00
EL-1033	Outdoor / Indoor **	1000 Watts	120Vac	8.3	EL-1033-12		547.00
EL-1533	Outdoor / Indoor **	1500 Watts	120Vac	12.5	EL-1533-12		570.00
EL-1533	Outdoor / Indoor **	1500 Watts	208Vac	7	EL-1533-20		570.00
EL-1533	Outdoor / Indoor **	1500 Watts	240Vac	6.3	EL-1533-24		570.00
EL-2039	Outdoor / Indoor	2000 Watts	208Vac	10	EL-2039-20		591.00
EL-2039	Outdoor / Indoor	2000 Watts	240Vac	8.3	EL-2039-24		591.00
EL-2539	Outdoor / Indoor	2500 Watts	208Vac	12	EL-2539-20		608.00
EL-2539	Outdoor / Indoor	2500 Watts	240Vac	10.4	EL-2539-24		608.00
ELD-3033	Outdoor / Indoor	3000 Watts	208Vac	14	EL-3033-20		724.00
ELD-3033	Outdoor / Indoor	3000 Watts	240Vac	12.5	EL-3033-24		724.00
EL-3061	Outdoor / Indoor	3000 Watts	208Vac	14	EL-3061-20		792.00
EL-3061	Outdoor / Indoor	3000 Watts	240Vac	12.5	EL-3061-24		792.00
ELD-4039	Outdoor / Indoor	4000 Watts	208Vac	19	EL-4039-20		724.00
ELD-4039	Outdoor / Indoor	4000 Watts	240Vac	16.7	EL-4039-24		724.00
EL-4061	Outdoor / Indoor	4000 Watts	208Vac	19	EL-4061-20		792.00
EL-4061	Outdoor / Indoor	4000 Watts	240Vac	16.7	EL-4061-24		792.00
ELD-5039	Outdoor / Indoor	5000 Watts	208Vac	24	EL-5039-20		825.00
ELD-5039	Outdoor / Indoor	5000 Watts	240Vac	20.8	EL-5039-24		825.00
ELD-6061	Outdoor / Indoor	6000 Watts	208Vac	28.8	EL-6061-20		948.00
ELD-6061	Outdoor / Indoor	6000 Watts	240Vac	25	EL-6061-24		948.00

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

Custom Color Options:

A Heater is available in the following custom colors. Black, White, Beige, Mineral Bronze, Almond, Biscuit. JE-0500	\$ 94.80
Please contact your sales rep for information on how to order custom colored heaters - Longer Delivery	

Recessed Mounting Options:

33" recessed mount frame S/S	JE-0520-33	\$ 597.00
39" recessed mount frame S/S	JE-0520-39	597.00
61.25" recessed mount frame S/S	JE-0520-61	657.00

^{**} Typically recommended for indoor use due to the low wattage.









ON/OFF 2 STAGE

VARIABLE

Control Options:

Application

	Elec	trical		
ON / OFF CONTROLS	Voltage	Amps	Part #	List Price
Designed for use with single bulb heaters ONLY.	J	•		
Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box	120/240/277V	20A Max	JM-4400-XX \$	128.00
Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box	120/240/277V	20A Max	JM-4405-XX	217.00
Single - Flush Mount c/w Weatherproof Cover	120/240/277V	20A Max	JM-4410-XX	139.00
Dual - Flush Mount c/w Weatherproof Cover	120/240/277V	20A Max	JM-4415-XX	251.00
Single - Surface Mount c/w Weatherproof Gang Box and Cover	120/240/277V	20A Max	JM-4420-XX	162.00
Dual - Surface Mount c/w Weatherproof Gang Box and Cover	120/240/277V	20A Max	JM-4425-XX	262.00
2 STAGE CONTROLS				
Designed for use with dual bulb heaters ONLY. (Ability to turn ea	ach bulb on and o	off independently)		
Single Duplex - Flush Mount c/w S/S Wall Plate and Gang Box	120/240/277V	20A Per switch	JM-4300-XX \$	139.00
Dual Duplex - Flush Mount c/w S/S Wall Plate and Deep Box	120/240/277V	20A Per switch	JM-4305-XX	229.00
Single Duplex - Flush Mount c/w Weatherproof Cover	120/240/277V	20A Per switch	JM-4310-XX	162.00
Dual Duplex - Flush Mount c/w Weatherproof Cover	120/240/277V	20A Per switch	JM-4315-XX	262.00
Single Duplex - Surface Mount c/w Weatherproof Box and Cover	120/240/277V	20A Per switch	JM-4320-XX	178.00
Dual Duplex - Surface Mount c/w Weatherproof Box and Cover	120/240/277V	20A Per switch	JM-4325-XX	284.00
VARIABLE CONTROLS				
Designed for use with single bulb heaters up to 3000 watts ONL'	Y (max 15 amps).			
Single - Flush Mount c/w S/S Wall Plate and Deep Gang Box	240V	15A Max	JM-4200-XX \$	139.00
Dual - Flush Mount c/w S/S Wall Plate and Deep Gang Box	240V	15A Max	JM-4205-XX	229.00
Single - Flush Mount c/w Weatherproof Cover	240V	15A Max	JM-4210-XX	162.00
Dual - Flush Mount c/w Weatherproof Cover	240V	15A Max	JM-4215-XX	262.00
Single - Surface Mount c/w Weatherproof Gang Box and Cover	240V	15A Max	JM-4220-XX	178.00
Dual - Surface Mount c/w Weatherproof Gang Box and Cover	240V	15A Max	JM-4225-XX	284.00

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 1-877-446-3727

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	<u>Input</u>	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	\$ 33.40 \$	33.40
MODELS: IQ, ITB, IWP, IW	45,000	JS-0556-XC	JS-0556-XD	64.40	64.40
	60,000	JS-0557-XX	JS-0558-XX	33.40	33.40
	80,000	JS-0559-XX	JS-0560-XX	33.40	33.40
	100,000	NG ONLY - Not C	onvertible		
	110,000 ¹	JS-0561-XB	JS-0562-XB	149.00	116.00
	125,000 ³	JS-0563-XB	JS-0564-XB	57.30	57.30
	150 / 155,000	JS-0565-XX	JS-0566-XX	33.40	33.40
	175,000 ^{1, 3}	JS-0567-AS	JS-0567-BS	116.00	113.00
	200,000 1, 3	JS-0567-CS	JS-0567-DS	72.60	58.00

^{**} 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

- Different burner configurations exist for some burner input rates.
 MUST provide Model and Serial Numbers to Customer Service 1-877-446-3727
- 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	\$ 57.00	\$ 57.00
	2-STAGE TUBE HEATERS	110,75,000	JS-0555-TG	JS-0555-TH	57.00	57.00
		125/90,000	JS-0555-TK	JS-0555-TL	57.00	57.00
		155/110,000	JS-0555-TO	JS-0555-TP	57.00	57.00
'IL' Ser	ies High Intensity	Heaters	NG to LP	LP to NG		
	IL 25 NG Only -Field conve	ersion to LP is Discontinued				
	IL 37		JX-0253-XA	JX-0252-XA	\$ 65.40	\$ 65.40
	IL 50		JX-0253-XB	JX-0252-XB	65.40	65.40
	IL 75		JX-0253-XC	JX-0252-XC	65.40	65.40
	IL 100		JX-0253-XD	JX-0252-XD	65.40	65.40
	IL 150		JX-0253-XC-A	JX-0252-XC-A	78.50	78.50
	IL 200		JX-0253-XD-A	JX-0252-XD-A	78.50	78.50
Outdoo	or/Patio Heaters		NG to LP	LP to NG		
	IO-135	35,000	JX-0253-XH	JX-0252-XH	\$ 81.90	\$ 81.90
	IO-150	50,000	JX-0253-XJ	JX-0252-XJ	82.60	81.50
	IO-212	23,000	JX-0253-XE	JX-0252-XE	65.40	65.40
	IO-213	35,000	JX-0253-XF	JX-0252-XF	65.40	65.40



SPECIAL PROJECT QUOTATION

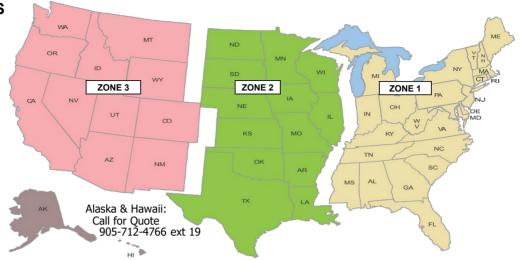
U. 1	IOIAL I NOOLO I	400171	11011				
	BUTOR NAME:			COMPETITION:			
CONTA	ACT:		<u> </u>	PROJECT CLOSES			
PHONE	E NUMBER:			SHIPPING DATE:			
FAX N	JMBER:			PRICE PROTECTION REQ	UIRED:		
ENGIN	EER			COMMENTS:			
;	SPECIFIED	EQUAL	ALTERNATE				
JOB N	AME:						
CITY: _	PRC	V:					
	infraSave	сом	PETITOR	COMPETITIVE PRICE INFORMATION	DISTE	RIBUTOR P	RICE NEEDED
QTY	MODEL NUMBER	МС	DDEL#	PRICE TO CONTRACTOR	(GRO	SS MARGI	N EXPECTED)
		FOR	INTERNA	L USE ONLY			
DATE	RECEIVED:			QUOTE NO.	FAXED:	YES N	10
	RECEIVED:			CUSTOMER NO.	TYVED.	120 1	10
111411-1	KEOLIVES.			COOT CHILICITO.			
NOTE	S: 1. InfraSave must receive wr	itten confirmation o	of this request from the	e distributor.			
	The state of the s						
	Contact your Schw	ank Regional N	Manager directly	for a Special Project Quotat	ion _{).}		
				DECHESTED DV:			
				REQUESTED BY:			

RD: April 1, 2019 RL: 19-1A

ATTENTION: NATIONAL SALES MANAGER



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.

		ADD to Any Order	ADD to Order For Only
Zone	Total Product LIST PRICE [US\$]	That INCLUDES a TUBE HEATER	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 #2	\$20,000 and OVER \$10,000 to \$19,999	0% 7%	0% 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

	WARRANTY TERM (YEARS)						
	All Heaters	Luminous	Tube	Heaters	Outdoor	Parasol	
Infrasave Product	Components	Ceramic Tile		Radiating T u b e s	Burner	Mantle	
LUMINOUS HEATERS:							
IL Series	2	10					
TUBE HEATERS:							
Premier – IQ Series	3		10	10			
Builder – ITB(U) Series	3		10	10			
Two-stage – ITT(U) Series	3		10	10			
P40U- Series (-IP, -IW)	2		5	5			
Residential - P40-R Vented Room Heater	2		5	5			
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	
EL /ELD Electric IR	1						
AIR CURTAINS							
500 Series – Drive-Thru Window	1						
1000 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.