SUBMITTAL DATA



SCHWANK GAS-FIRED

CAR WASH / OUTDOOR

SPW-JZ SERIES LOW INTENSITY TUBE TYPE INFRA RED HEATERS

PROJECT:		
ENGINEER:		
CONTRACTOR:		
DISTRIBUTOR:		
SCHWANK MODEL #:		
FUEL:	N.G.	L.P.G.
APPROVED BY:		
DATE:		
APPROVAL #:		





NOTICE:

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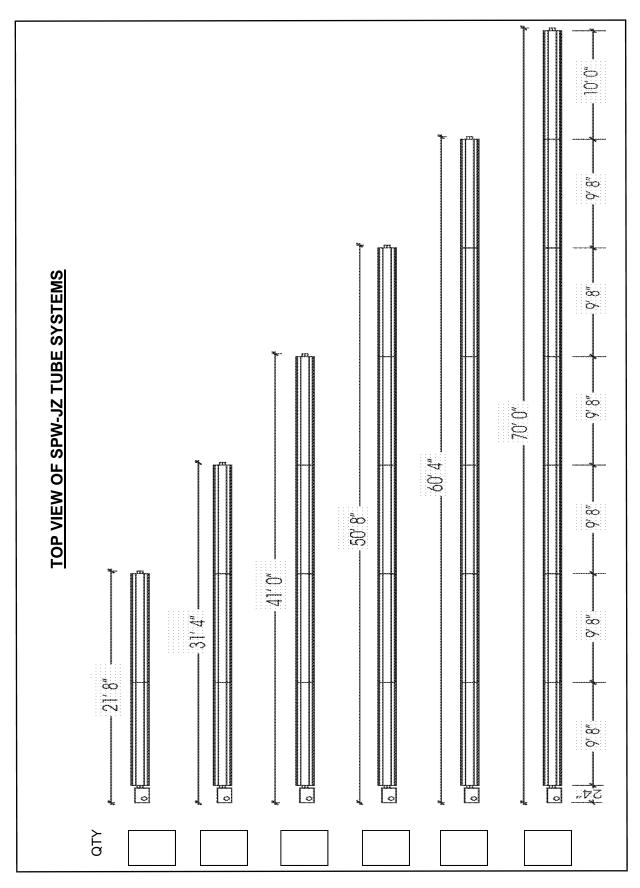
Customer and Technical Services

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Quantity On This Project	TABLE 1: MODEL CONFIGURA- TIONS	TOTAL HEATER LENGTH	CAPACITY BTU/HR kW	TURBULA- TOR REQUIRED LENGTH	GAS PRESSURE & ELECTRICAL	FLUE & AIR VENTS	SHIPPING WEIGHT Kg (LBS.)
	SPW-JZ-200-70	70' 0"		6'	<u>LINE</u> MINIMUM		324 Lbs
	SPW-JZ-200-60	60' 4"	200,000 Btu/hr 59 Kw	6'	5" W.C. NG		282 Lbs
	SPW-JZ-200-50	50' 8"		10'	11" W.C. LP		239 Lbs
	SPW-JZ-175-70	70' 0"		10'			324 Lbs
	SPW-JZ-175-60	60' 4"	175,000 Btu/hr 51 kW	10'			282 Lbs
	SPW-JZ-175-50	50' 8"		10'	LINE		239 Lbs
	SPW-JZ-155-60	60' 4"		2'	MAXIMUM NG or LP		282 Lbs
	SPW-JZ-155-50	50' 8"	150,000 Btu/hr 44 kW	2'	14" W.C.		239 Lbs
	SPW-JZ-155-40	41' 0"		12'			197 Lbs
	SPW-JZ-130-50	50' 8"		2'			239 Lbs
	SPW-JZ-130-40	41' 0"	125,000 Btu/hr 37 kW	12'	MANIFOLD 3½" W.C. NG		197 Lbs
	SPW-JZ-130-30	31' 4"		13'	10" W.C. LP		154 Lbs
	SPW-JZ-110-50	50' 8"		2'			239 Lbs
	SPW-JZ-110-40	41' 0"	110,000 Btu/hr 32 kW	12'	1/" NIDT CAS	4"	197 Lbs
	SPW-JZ-110-30	31' 4"		13'	½" NPT GAS INLET		154 Lbs
	SPW-JZ-80-40	41' 0"		12'			197 Lbs
	SPW-JZ-80-30	31' 4"	80,000 Btu/hr 23 kW	8'	ELECTRICAL		154 Lbs
	SPW-JZ-80-20	21' 8"		14'	ELECTRICAL 120V, 60 HZ 145 VA		111 Lbs
	SPW-JZ-60-30	31' 4"	60,000 Btu/Hr	8'			154 Lbs
	SPW-JZ-60-20	21' 8"	18 kW	14'	THERMOSTAT		111 Lbs
	SPW-JZ-45-20	21' 8"	45,000 Btu/hr 13 kW	14'	Factory ready for 24V or 120V thermostat		111 Lbs



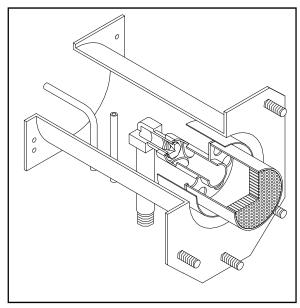
COMPONENT QUANTITIES PER HEATER MODEL	<u>SPW-JZ</u> 45-20	<u>SPW-JZ</u> 60-20 80-20	SPW-JZ 60-30 80-30 110-30 130-30	SPW-JZ 80-40 110-40 130-40 155-40	<u>SPW-JZ</u> 110-50 130-50 155-50	<u>SPW-JZ</u> 175-50 200-50	<u>SPW-JZ</u> 155-60	<u>SPW-JZ</u> 175-60 200-60	<u>SPW-JZ</u> 175-70 200-70
QUANTITIES ON PROJECT									
SWAGED TUBE(S):									
10' STAINLESS STEEL w/ FLANGE	0	0	0	0	0	1	0	1	1
10' ALUMINIZED STEEL w/ FLANGE	1	1	1	1	1	0	1	0	0
10' ALUMINIZED STEEL	0	0	0	0	0	1	0	1	1
10' ALUMINIZED w/ EMISSIVE COATING	1	1	2	3	4	3	5	4	5
FOCUS SHIELD REFLECTOR (9' 8")	2	2	3	4	5	5	6	6	7
ALUMINIZED COUPLER	1	1	2	3	4	4	5	5	6
END WEBBED PLATE HANGER	2	2	2	2	2	2	2	2	2
TUBE / REFLECTOR WEBBED HANGER	1	1	2	3	4	4	5	5	6
REFLECTOR STABILIZER	6	6	9	12	15	15	18	18	21

NOTE:

1. CANADA: TYPE 1 HOSE GAS CONNECTOR IS INCLUDED WITH EACH BURNER KIT 1/2" X 30" 45,000 TO 130,000 AND 3/4" X 30" = 150,000 TO 200,000

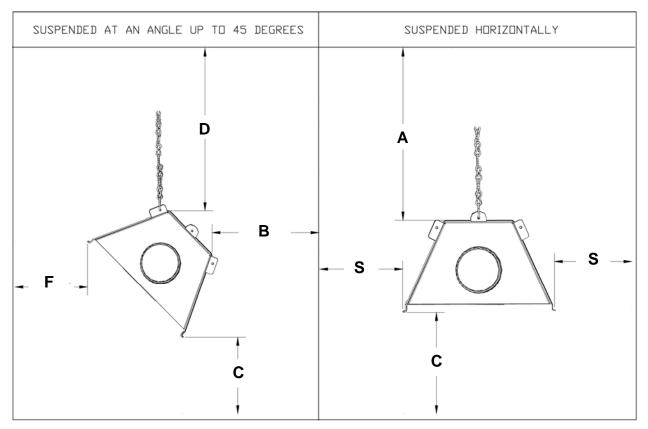
2. USA : FLEXIBLE GAS CONNECTOR IS INCLUDED WITH EACH BURNER KIT 1/2" X 24" 45,000 TO 130,000 AND 3/4" X 24" = 150,000 TO 200,000

CUT-AWAY BURNER VIEW



OPTIONAL ACCESSORIES	QUANTITY ON THIS PROJECT
90 DEGREE SWAGED ELBOW KIT JS-0508-JZ 1 elbow, 1 reflector cap, 1 webbed hanger, 1 coupler	
180 DEGREE SWAGED ELBOW KIT 2 x JS-0508-JZ 2 x 90 degree elbow kits - 2 webbed hangers, 2 couplers	
WALL VENT TERMINAL 4" (102 mm) JA-0528-XX	
WALL VENT TERMINAL 6" (152 mm) JA-0529-XX	
FLUE VENT TEE (4" x 4" x 6") JA-0514-	
COUPLING KIT FOR VENT TEE JA-0516-SW	
MOISTURE PROOF THERMOSTAT - NEMA 4X JS-0570-XX	
RELAY MULTIPLE HEATERS / 24V THERMOSTAT 2 TO 7 HEATERS PER THERMOSTAT JM-0303-KT	

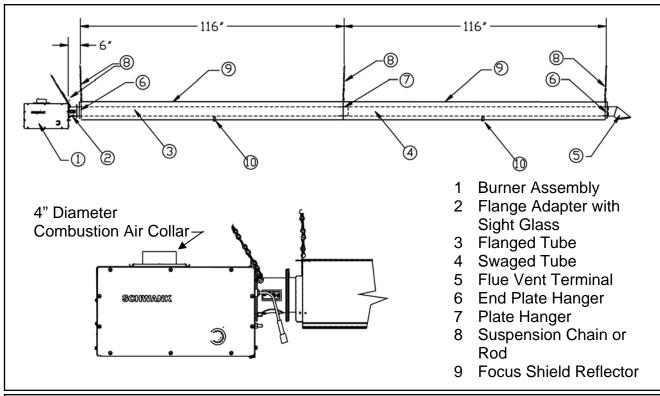
MINIMUM CLEARANCES TO COMBUSTIBLES

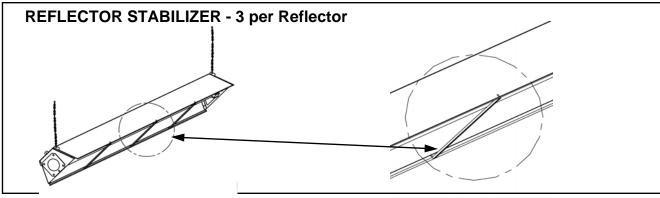


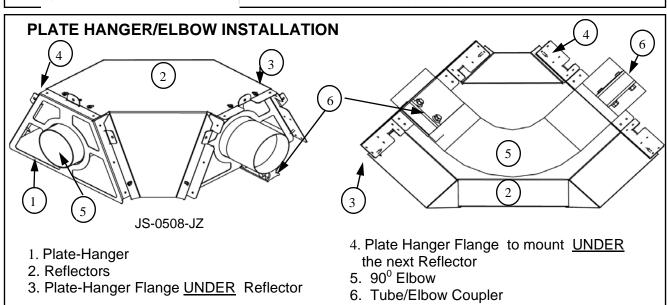
Q T	MODEL	SUSPENDED AT AN ANGLE UP TO 45 DEGREES				SUSPENDED HORIZONTALLY		
Υ		D	В	F	С	Α	S	С
	SPW-JZ 200	13"	6"	74"	70"	14"	44"	76"
	SPW-JZ 175	12"	6"	72"	68"	13"	42"	74"
	SPW-JZ 155	5.5"	1"	64"	64"	3.5"	22"	70"
	SPW-JZ 130	4.5"	1"	60"	60"	3.3"	21"	65"
	SPW-JZ 110	3.5"	1"	54"	54"	2"	19"	60"
	SPW-JZ 80	3"	1"	23"	38"	1.75"	6"	38"
	SPW-JZ 60	2.5"	1"	17"	34"	1.5"	5.5"	34"
	SPW-JZ 45	2.75"	1"	24"	32"	2.25"	7"	32"

The clearance to combustible material represents the minimum distance that must be maintained between heater and a nearby combustible surface. The stated clearance to combustibles represents a surface temperature of 90°F (50°C) above room temperature. Some materials such as awnings or plastic may require higher clearances. It is the installer's responsibility to ensure that building materials with a low heat tolerance which may degrade at lower temperature are protected to prevent degradation.

TYPICAL HANGER & SUPPORT SPACING RECOMMENDATIONS







COMPONENT DESCRIPTION

IGNITION	POTTED DIRECT SPARK MODULE					
	NEMA 4X MOISTURE PROOF THERMOSTAT					
THERMOSTAT OPTIONS	THERMOCONTROL PLUS					
	FIELD SUPPLIED THERMOSTAT BY OTHERS					
ELBOWS	90 DEGREE ELBOW 4" DIAMETER, 16 GA. ALUMINIZED STEEL, SWAGED ONE END					
	180 DEGREE ELBOW 4" DIAMETER, 16 GA. ALUMINIZED STEEL, 19" ON CENTRE (ASSEMBLY OF TWO 90 DEGREE ELBOW KITS)					
HEATER TUBE(S) 45 to 155 MBH	COMBUSTION TUBE: FLANGED 10' x 4" DIAMETER 16 GA. ALUMINIZED STEEL SWAGED ONE END SECOND TUBE: 10' x 4" DIAMETER 16 GA. ALUMINIZED STEEL SWAGED ONE END EACH ADDITIONAL TUBE: 10' x 4" DIAMETER, .16 GA. ALUMINIZED STEEL TUBES WITH HIGH					
HEATER TUBE(S) 175 & 200 MBH	COMBUSTION TUBE: 10' x 4" DIAMETER, 16 GA. 439 STAINLESS STEEL SWAGED ONE END SECOND TUBE: 10' x 4" DIAMETER, 16 GA. ALUMINIZED STEEL SWAGED ONE END EACH ADDITIONAL TUBE: 10' x 4" DIAMETER, 16 GA. ALUMINIZED STEEL WITH HIGH TEMPERATURE EMISSIVE COATING SWAGED ONE END					
COMBINATION	HONEYWELL 24 VOLT NATURAL GAS: 3 1/2" W.C. MANIFOLD					
GAS VALVE	PROPANE: 10" W.C. MANIFOLD					
	REFLECTORS EXTEND 1.5" BELOW BOTTOM OF TUBE SURFACE					
REFLECTORS	REFLECTORS ARE CLOSED AT START AND END OF EACH STRAIGHT RUN OF TUBES BY MEANS OF END PLATE HANGERS					
HANGERS	ONE WEBBED HANGER SUPPORTS EACH 10' OF TUBE, EXCEPT THE FIRST AND LAST TUBES WHICH UTILIZE ONE WEBBED HANGER AND ONE PLATE HANGER AT EACH END .					
COUPLING KIT	ALUMINIZED STEEL COUPLER					
BURNER HOUSING	POWDER COATED WATER RESISTANT					
BURNER	INCORPORATES EFFECTILE CERAMIC BURNER HEAD WITH MINIMUM OF 835 FLAME PORTS					
DUNNER	COMPLETE WITH OPERATION STATUS INDICATOR LIGHTS					
TRANSFORMER	120/24VAC; 20VA					
SAFETY SWITCHES	TWO SEPARATE AIR PRESSURE SWITCHES SENSE ADEQUATE COMBUSTION AIR AND BLOCKED FLUE					
STATUS INDICATOR LIGHTS	GREEN: CALL FOR HEAT; YELLOW: IGNITION TRIAL; RED: FLAME ESTABLISHED					
COMBUSTION AIR	COMBUSTION AIR DUCTED DIRECTLY TO INTAKE OF BLOWER					
TERMINAL BLOCK	ALL WIRING CONNECTIONS BY MEANS OF COMMON TERMINAL BLOCK; JUMPER: FOR 120V THERMOSTAT; REMOVE FOR 24V THERMOSTAT					
ELECTRICAL CORD	4' LENGTH 16/3 ELECTRICAL SUPPLY CORD WITH 3 PIN GROUNDED PLUG					