

**SUBMITTAL
DATA**



IWP2 SERIES

TWO-STAGE CAR WASH / OUTDOOR

- **Powder Coated Burner Housing**
- **Aluminized Steel Tube / Reflector System**

**GAS-FIRED LOW INTENSITY TUBE TYPE
INFRA RED RADIANT HEATERS**

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



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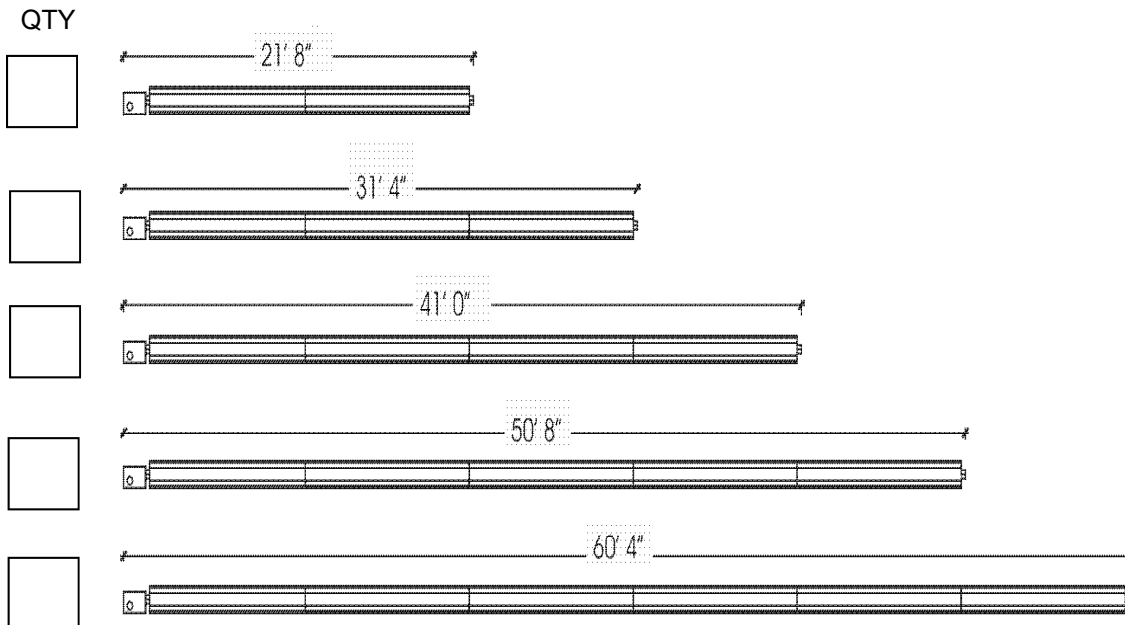
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Quantity On Project	<u>TABLE 1: MODEL CONFIGURATIONS</u>	HEATER TOTAL LENGTH	CAPACITY BTU/HR	GAS PRESSURE & ELECTRICAL	FLUE VENT	AIR DUCT	SHIPPING WEIGHT Kg (LBS.)														
	IWP2-200-60	60' 4"	195,000 / 140,000	<u>LINE MINIMUM</u> 5" W.C. NG 11" W.C. LP <u>LINE MAXIMUM</u> NG or LP 14" W.C. <u>MANIFOLD</u> 3½" W.C. NG 10" W.C. LP ½" NPT GAS INLET ELECTRICAL 120V, 60 HZ 145 VA	4"	5"	282														
	IWP2-200-50	50' 8"					239														
	IWP2-175-60	60' 4"	162,000 / 115,000			<u>LINE MINIMUM</u> 5" W.C. NG 11" W.C. LP <u>LINE MAXIMUM</u> NG or LP 14" W.C. <u>MANIFOLD</u> 3½" W.C. NG 10" W.C. LP ½" NPT GAS INLET ELECTRICAL 120V, 60 HZ 145 VA	4"	4"	282												
	IWP2-175-50	50' 8"							239												
	IWP2-155-50	50' 8"	150,000 / 110,000						<u>LINE MINIMUM</u> 5" W.C. NG 11" W.C. LP <u>LINE MAXIMUM</u> NG or LP 14" W.C. <u>MANIFOLD</u> 3½" W.C. NG 10" W.C. LP ½" NPT GAS INLET ELECTRICAL 120V, 60 HZ 145 VA	4"	4"	239									
	IWP2-155-40	41' 0"										197									
	IWP2-130-40	41' 0"	120,000 / 85,000									<u>LINE MINIMUM</u> 5" W.C. NG 11" W.C. LP <u>LINE MAXIMUM</u> NG or LP 14" W.C. <u>MANIFOLD</u> 3½" W.C. NG 10" W.C. LP ½" NPT GAS INLET ELECTRICAL 120V, 60 HZ 145 VA	4"	4"	197						
	IWP2-130-30	31' 4"													154						
	IWP2-110-40	41' 0"	110,000 / 80,000												<u>LINE MINIMUM</u> 5" W.C. NG 11" W.C. LP <u>LINE MAXIMUM</u> NG or LP 14" W.C. <u>MANIFOLD</u> 3½" W.C. NG 10" W.C. LP ½" NPT GAS INLET ELECTRICAL 120V, 60 HZ 145 VA	4"	4"	197			
	IWP2-110-30	31' 4"																154			
	IWP2-80-30	31' 4"	78,000 / 58,000															<u>LINE MINIMUM</u> 5" W.C. NG 11" W.C. LP <u>LINE MAXIMUM</u> NG or LP 14" W.C. <u>MANIFOLD</u> 3½" W.C. NG 10" W.C. LP ½" NPT GAS INLET ELECTRICAL 120V, 60 HZ 145 VA	4"	4"	154
	IWP2-80-20	21' 8"																			111

TOP VIEW OF IWP2 TUBE SYSTEMS



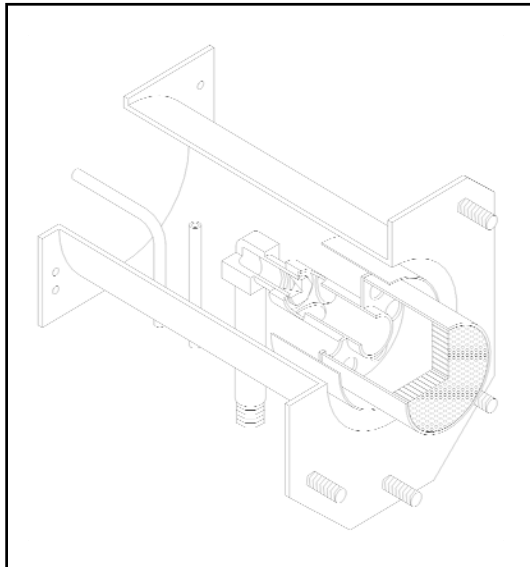
COMPONENT QUANTITIES PER HEAT EXCHANGER LENGTH	NOMINAL TUBE LENGTH					
	20 FT	30 FT	40 FT	50 FT (155)	50 FT (175/200)	60 FT
QUANTITIES ON PROJECT						
ACTUAL TUBE LENGTH	19'-8"	29'-4"	39'-0"	48'-8"	48'-8"	58'-4"
SWAGED TUBE(S):						
10' STAINLESS STEEL w/ FLANGE	0	0	0	0	1	1
10' ALUMINIZED STEEL w/ FLANGE	1	1	1	1	0	0
10' ALUMINIZED STEEL	0	0	0	0	1	1
10' ALUMINIZED w/ EMISSIVE COAT	1	2	3	4	3	4
FOCUS SHIELD REFLECTOR (9' 8")	2	3	4	5	5	6
ALUMINIZED COUPLER	1	2	3	4	4	5
END WEBBED PLATE HANGER	2	2	2	2	2	2
TUBE / REFLECTOR WEBBED HANG-	1	2	3	4	4	5
REFLECTOR STABILIZER	6	9	12	15	15	18

NOTE:

A FLEXIBLE GAS CONNECTOR IS SUPPLIED IN EACH BURNER KIT:

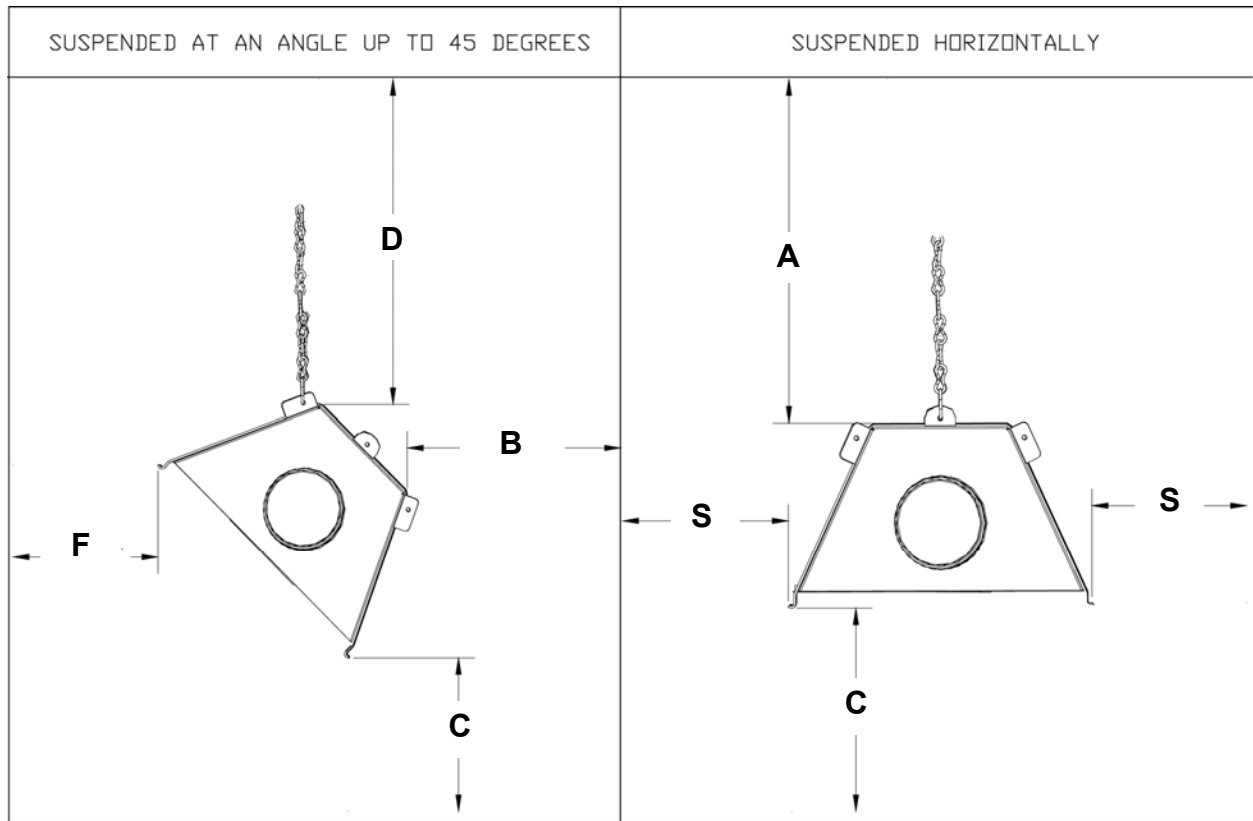
- CANADA : TYPE 1 HOSE GAS CONNECTOR
1/2" ID x 30" = 80,000 TO 130,000 ; AND 3/4" ID x 30" = 150,000 TO 200,000
- USA : FLEXIBLE GAS CONNECTOR
1/2" ID x 24" 80,000 TO 130,000 ; AND 3/4" ID x 24" = 150,000 TO 200,000

CUT-AWAY BURNER VIEW



OPTIONAL ACCESSORIES	QUANTITY ON 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-XX	
COUPLING KIT FOR VENT TEE JA-0516-SW	
MOISTURE PROOF 2-STAGE THERMOSTAT - NEMA 4X JS-0570-TT	
RELAY MULTIPLE HEATERS / 24V THERMOSTAT - 2 RELAYS PER ADDITIONAL HEATER JS-0568-CC	

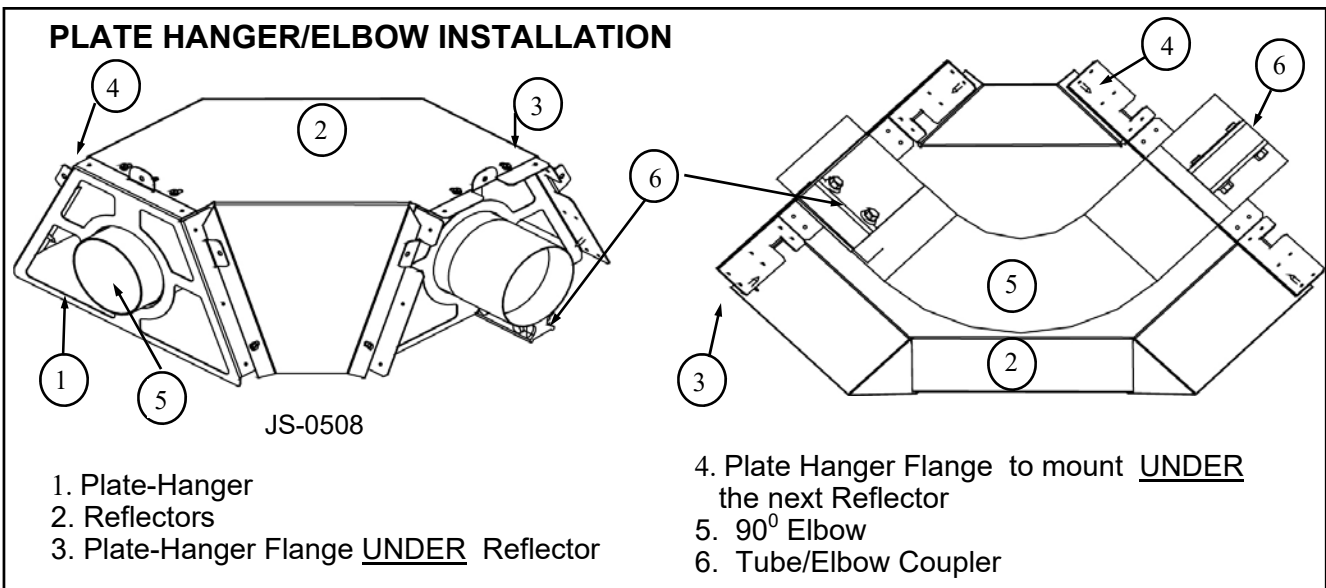
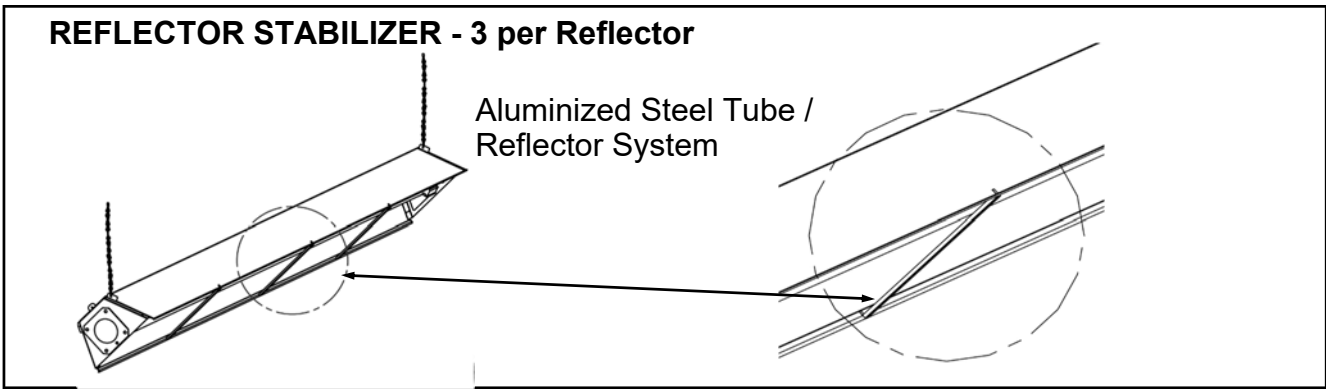
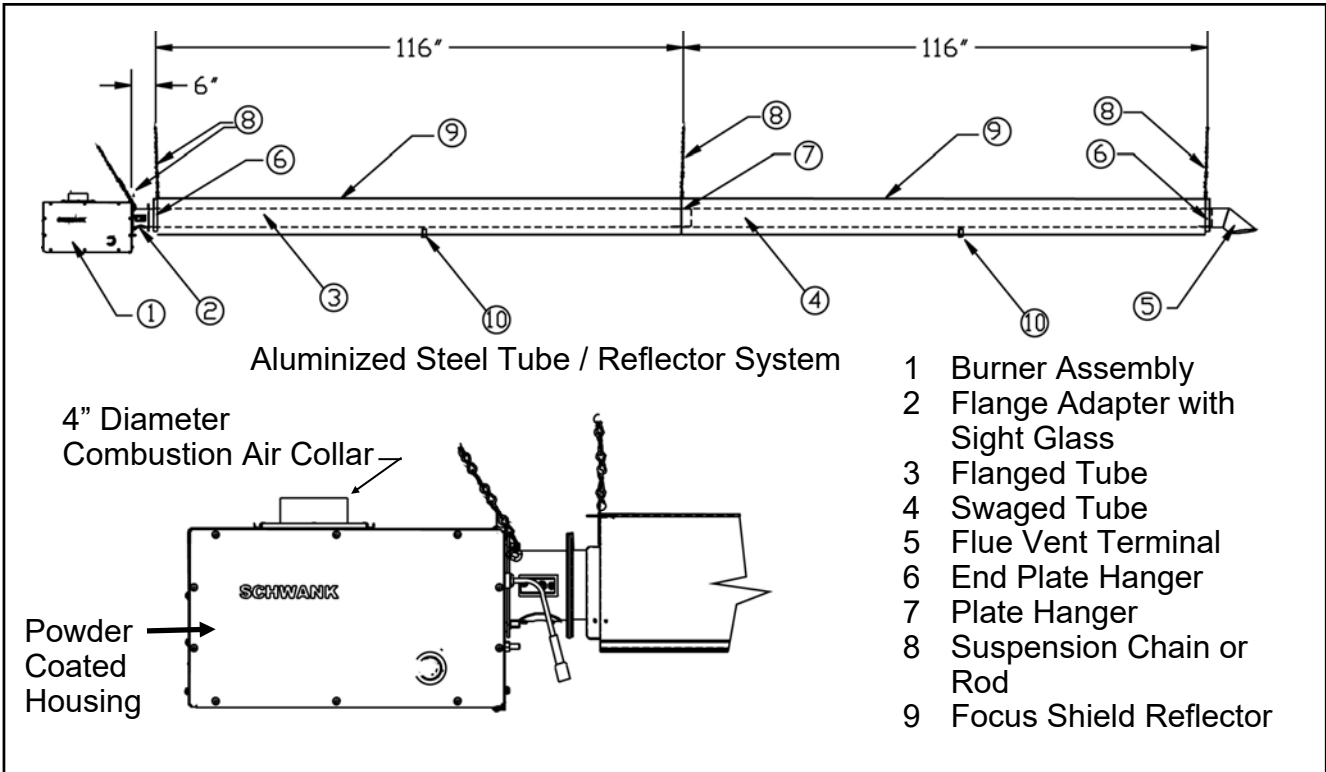
MINIMUM CLEARANCES TO COMBUSTIBLES



QTY	MODEL	SUSPENDED AT AN ANGLE UP TO 45 DEGREES				SUSPENDED HORIZONTALLY		
		D	B	F	C	A	S	C
	IWP2 200/140	13"	6"	74"	70"	14"	44"	76"
	IWP2 175/125	12"	6"	72"	68"	13"	42"	74"
	IWP2 155/110	5.5"	1"	64"	64"	3.5"	22"	70"
	IWP2 130/90	4.5"	1"	60"	60"	3.3"	21"	65"
	IWP2 110/75	3.5"	1"	54"	54"	2"	19"	60"
	IWP2 80/60	3"	1"	23"	38"	1.75"	6"	38"

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	WATER RESISTANT POTTED DIRECT SPARK IGNITION MODULE
THERMOSTAT OPTIONS	NEMA 4X MOISTURE PROOF 2-STAGE THERMOSTAT 24V-240V
	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) 80 to 150 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 TEMPERATURE EMISSIVE COATING, SWAGED ONE END
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
TWO-STAGE COMBINATION GAS VALVE	HONEYWELL 24 VOLT: NATURAL GAS: 3.5" / 2.2" W.C. MANIFOLD PROPANE: 10.0" / 5.0" W.C. MANIFOLD
REFLECTORS	REFLECTORS EXTEND 1.5" BELOW BOTTOM OF TUBE SURFACE
	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, WEATHER / WATER RESISTANT
BURNER	INCORPORATES EFFECTILE CERAMIC BURNER HEAD WITH MINIMUM OF 835 FLAME PORTS
	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 BURNER
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