

**UTILITY REQUIREMENTS:****PUMPS:**

P6E6CL STA-RITE 1/2 H.P. 115/230 VOLTAGE 11.0 / 5.5 MAX. LOAD AMPS  
P6E6DL STA-RITE 3/4 H.P. 115/230 VOLTAGE 13.8 / 6.9 MAX. LOAD AMPS  
P6E6EL STA-RITE 1 H.P. 115/230 VOLTAGE 16.0 / 8.0 MAX. LOAD AMPS  
P6E6FL STA-RITE 1.5 H.P. 230 VOLTAGE 10.4 MAX. LOAD AMPS  
P6E6GL STA-RITE 2 H.P. 230 VOLTAGE 11.2 MAX. LOAD AMPS  
P6E6HL STA-RITE 3 H.P. 230 VOLTAGE 15.0 MAX. LOAD AMPS

**AIR BLOWER:**

R4110-2 GAST 1 H.P. 115/208 VOLT 9.8/5.2 AMPS

**GAS PIPE SIZE REQUIREMENT:**

HEATER SIZE	0-50 FEET (0-15 m)	50-100 FEET (15-30 m)	100-200 FEET (30-60 m)	VENT DIAMETER
125 BTU	3/4 (19)	1 (25.4)	1 (25.4)	5"
175 BTU	1 (25.4)	1 (25.4)	1.25 (31.75)	6"
250 BTU	1 (25.4)	1.25 (31.75)	1.25 (31.75)	7"
325 BTU	1.25 (31.75)	1.25 (31.75)	1.5 (38)	8"
400 BTU	1.25 (31.75)	1.5 (38)	1.5 (38)	9"

115/230/24 VOLT TRANSFORMER

**LIGHTS:**

POOL LIGHT:	QTY:	300 WATTS 7 AMPS EACH 115 / 110 VOLTS
SPA LIGHT:	QTY:	100 WATTS 7 AMPS EACH 115 / 110 VOLTS
POOL 'SAM' LIGHT:	QTY:	140 WATTS 1.16 AMPS EACH 120 VOLTS
SPA 'SAL' LIGHT:	QTY:	70 WATTS .625 AMPS EACH 120 VOLTS

**IMPORTANT NOTE:**

IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SUPPLY THE PROPER VOLTAGE FOR EACH PUMP MOTOR.  
THIS REQUIREMENT MAY INDICATE THE NEED TO BOOST VOLTAGE WITH A TRANSFORMER.  
MOTOR RATED AT 230v WILL OVERHEAT AND HAVE REDUCED LIFE EXPECTANCIES IF RUN ON 207v (30)

**PLEASE NOTE -- ALL UTILITY WORK TO BE BY OTHERS AS APPLIES:**

ALL ELECTRICAL SWITCHING AND GROUNDING TO BE BY OTHERS.  
WHIRLPOOL ACTUATION TO BE INSTALLED BY ELECTRICIAN PER N.E.C. CODE.  
POOL LIGHT SWITCHING BY OTHERS.  
LIGHTS SUPPLIED WITH 50' CORDS.  
JUNCTION BOX 18" ABOVE POOL WATER.  
ELECTRICIAN RESPONSIBLE TO PULL ALL LIGHTS WITH #8 GROUND WIRE.  
JET PUMP AND AIR BLOWER TO COME ON TOGETHER WITH A 15-MINUTE TIMER. (SUPPLIED BY ELECTRICIAN).  
ALL PUMPS NEED SEPARATE SWITCHES IN FILTER ROOM FOR MAINTENANCE PERSON TO TURN ON AND OFF.

**SPA WITH CHEMICAL CONTROLLERS:**

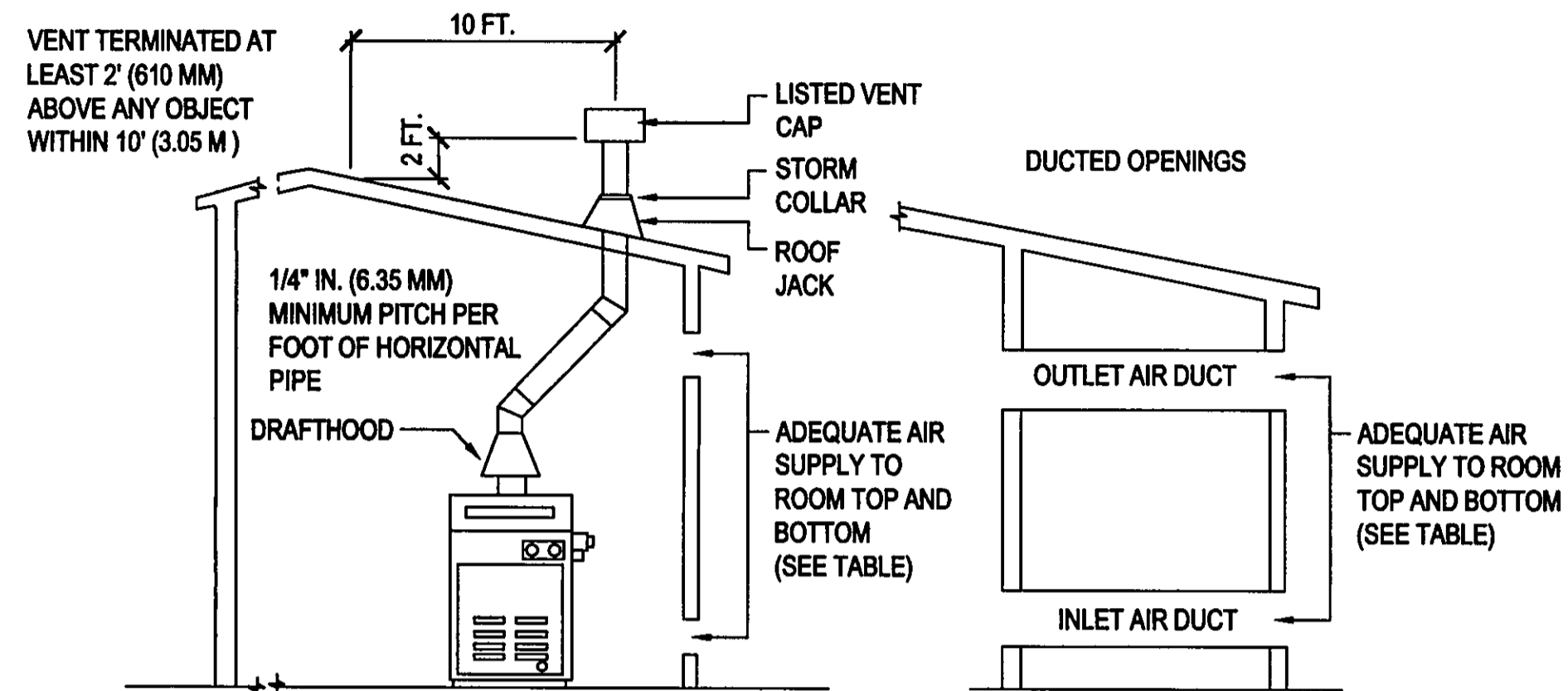
110-VOLT DUPLEX OUTLET LOCATED BY SPA CHEMICAL CONTROLLER IS NEEDED IN FILTER ROOM.  
(THIS OUTLET IS TO BE ELECTRICALLY INTERLOCKED WITH SPA CIRCULATION FILTER PUMPS SO THAT THERE IS POWER TO THE OUTLET ONLY WHEN SPA RECIRCULATION FILTER PUMP IS ON.)

**DRAIN AND WATER SUPPLY:**

DRAIN NEEDED IN FILTER ROOM - 6" OR 8" CROCK WITH 4" DRAIN LINE.  
WATER SUPPLY - 1" WATER SUPPLY LINE TO POOL FILL POT WITH 1" VALVE AND SAME TO SPA FILL POT.  
(SUPPLIED BY THE PLUMBER OR A DIRECT TIE IN WITH WATTS 900 BACKFLOW PREVENTOR.)

**DISCLAIMER:**

IT IS THE RESPONSIBILITY OF EACH UTILITY CONTRACTOR TO OBTAIN THE LATEST INFORMATION REQUIRED TO INSTALL EACH PIECE OF EQUIPMENT.  
THIS SHEET SHOULD BE USED AS A GUIDE, HOWEVER, EACH CONTRACTOR IS RESPONSIBLE TO FOLLOW ALL MANUFACTURERS RECOMMENDATIONS AND STATE OR LOCAL CODES THAT MAY APPLY.

**BY OTHERS****REQUIRED NET FREE OPEN AREA FOR COMBUSTION AIR OPENINGS**

MODEL	DIRECT FROM OUTSIDE		DUCT FROM OUTSIDE	
	INCHES	(CM)	INCHES	(CM)
125 BTU	32	(206)	64	(413)
175 BTU	44	(284)	88	(568)
250 BTU	63	(406)	126	(813)
325 BTU	82	(429)	164	(1058)
400 BTU	100	(645)	200	(1290)

**NOTE:**

IF USING SCREENS AND/OR LOUVERS, COMPENSATE BY ADDING 50% ADDITIONAL AREA TO EACH OPENING

PROPERTY OF  
**HIGH-TECH POOLS, Inc.**  
UNAUTHORIZED USE PROHIBITED  
This document and the ideas, renderings and contents contained herein are the sole property of High-Tech Pools, Inc.  
This document may not be disseminated, copied, distributed, reproduced or otherwise used without prior written consent.

SCALE: NONE

DATE: 04-08-2009

DRAWN BY: E-L-C

REV. -

REV. -

MASTER POOLS by  
**high-tech pools inc.**  
(440) 979-5070  
(440) 979-5076-fax  
31333 Industrial Parkway  
Cleveland, Ohio 44070  
www.hightechpools.com

POOL: 106.08.852.19.500  
SPA: NONE

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive  
Concord, OH

SHEET #: SP-5

**POOL UTILITY  
REQUIREMENTS**