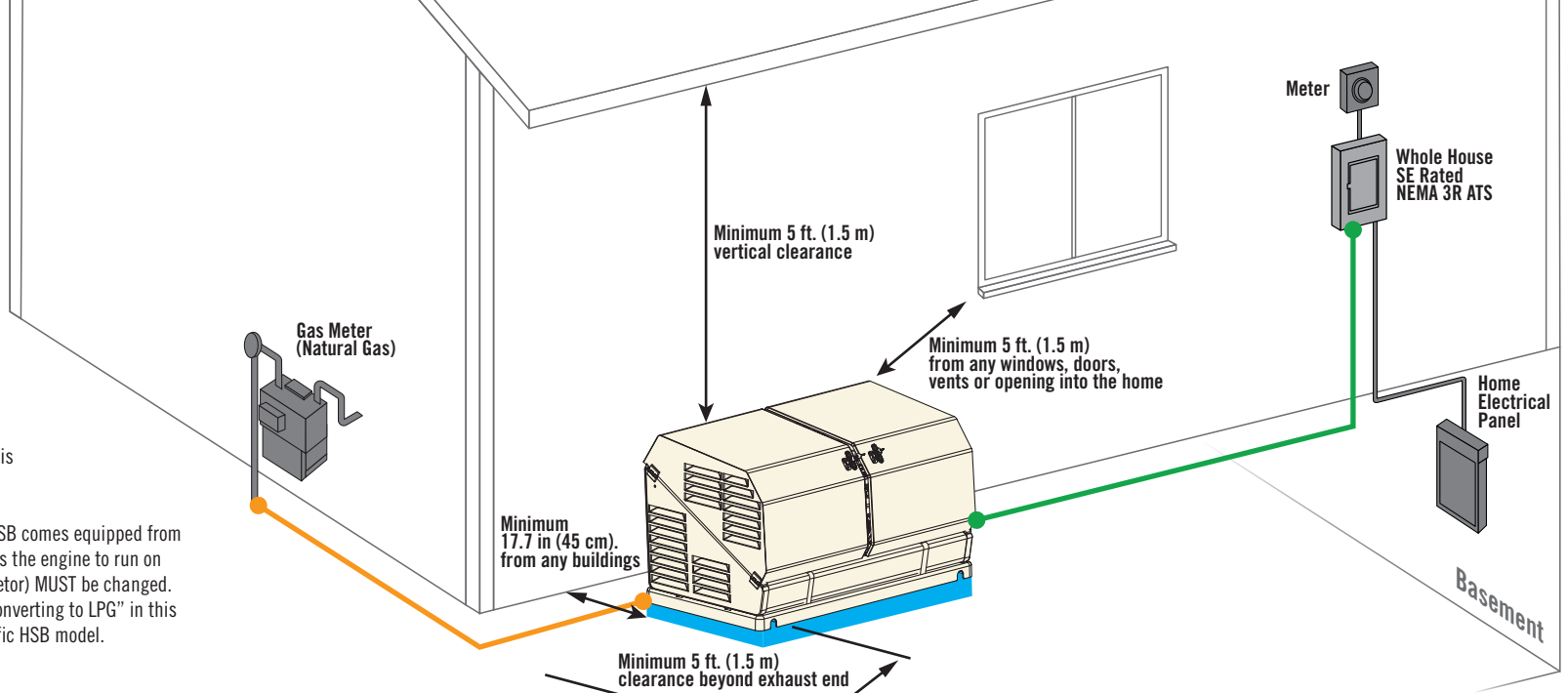


# GAS METER

Verify that the current gas meter is capable of providing enough fuel flow to include household appliances and other loads including the addition of the HSB. Check the NG primary regulator, connected at the NG meter output. The correct primary regulator is set at 6 to 8 inches water column. The existing primary regulator may be undersized once the HSB is added.

The HSB engine can run on either NG or LPG. The HSB comes equipped from the factory to run on NG. If your installation requires the engine to run on LPG, orifices in the master mixer assembly (carburetor) MUST be changed. The LPG orifices are shipped with HSB. Refer to "Converting to LPG" in this manual or the "Installation Manual" for your specific HSB model.



FUEL SYSTEM REQUIREMENTS	LPG	NG
Fuel Supply Pressure	10-12 inch WC	5-7/3.5-5 inch WC
MaxFlow Rate (8.5 kW)	146667 BTU/hr	135760 BTU/hr
Max Flow Rate (11 kW)	206289 BTU/hr	183916 BTU/hr
Max Flow Rate (12.5 kW)	236479 BTU/hr	198100 BTU/hr
Max Flow Rate (14 kW)	239589 BTU/hr	181452 BTU/hr

**Notes:** 1. Inlet into fuel lock off solenoid valve is 3/4 in. NPT 2. If calculated pipe run is below tabulated maximums, then use larger pipe size for installation.

PIPE LENGTH*	LPG (NPT)	NG (NPT)
25 ft.	3/4 in.	3/4 in.
50 ft.	3/4 in.	1 in.
100 ft.	1 in.	1 in.
150 ft.	1 in.	1-1/4 in.
200 ft.	1 in.	1-1/4 in.

\*Add 2.5 ft (0.76 m) per bend, tee or angle in the pipe line to overall distance, for each 90 degree elbow, add 8 feet (2.4 m) to the overall measurement."

This is a quick installation guide that is designed to assist in the installation of a Champion Power Equipment Home Standby Generator, please always refer to the installation manual of the unit you are installing and comply with local code.

# GENERATOR PLACEMENT

Champion recommends using a mixture of pea gravel and sand or crushed stone for placement of the mounting pad. The mounting pad MUST be level. The gravel mixture or crushed stone is to permit water runoff, drainage and reduce ponding of water around the HSB.

Dig an area 5 inches (12.7 cm) deep that is 6 inches (15.2 cm) longer and wider than the foot print of the HSB. The HSB is 49 inches long X 28 inches wide (124.5 cm long X 71 cm wide).

Cover the dugout area with a weed barrier or landscape cloth if desired.

Fill the area with pea gravel and sand mixture or crushed stone. Final stone level must be 2 or 3 inches higher than the original ground level to ensure water run-off and drainage. Compact the fill, this is to provide a firm base for the HSB. Remember the final stone level must be 2 or 3 inches higher than the original ground level to ensure water run-off and drainage.



A concrete pad can be poured and the HSB secured to it. In some areas a concrete pad is required due to high wind potential. Check local codes to see what type of mounting base is required. If a concrete pad is required, all federal, state and local codes should be followed. Unless mandated by federal, state or local code, a concrete pad is not required.

Compliant with clause (2) of section 4.1.4 of NFPA 37 for installation of a minimum distance of 450mm (17.7 in) from a combustible wall.

# TRANSFER SWITCH COMMUNICATION WIRES

10 wires from gen to ATS with a minimum rating of 300 volts.

MAX WIRE LENGTH	RECOMMENDED WIRE SIZE
1-115 ft. (1-35 m)	No. 18 AWG (300V)
116-185 ft. (36-56 m)	No. 16 AWG (300V)
186-295 ft. (57-89 m)	No. 14 AWG (300V)
296-460 (90-140 m)	No. 12 AWG (300V)

\*Also needs 4 power wires, size accordingly.



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