

FZFF1.TXT

FZFF1

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                                                                    X
X                                                                    X
X          FOLO ZONE FUN FILES                                     X
X                                                                    X
X          FILE "1" -- Nitrous Oxide                             X
X                                                                    X
X          alias LAUGHING GAS                                    X
X                                                                    X
X          by                                                    X
X  Z. DeBuggah of the Folo Zone Gang.                            X
X                                                                    X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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<^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^>
<                                                                    >
< Content Hazard Rating -- . Pain or                             >
< even death.                                                    >
<                                                                    >
< Hazard Type -- . . . . .Explosion.                             >
<                                                                    >
< Special Precautions -- DO NOT OVER                            >
< TIGHTEN FITTINGS, AND USE THE SAND                            >
< AS INSTRUCTED; NO METAL PARTS.                                >
<                                                                    >
<vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv>
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YOU WILL NEED:-

Ammonium Nitrate (get a good grade, it is fertilizer and comes in 50 lb. bags, also available from laboratory supply companies such as VW&R or American Scientific at considerably greater cost.)

Clean Sand, fairly fine grained, 30 mesh or finer. If you collect your own, and you get fresh water sand, (rivers and streams), it will be necessary to wash it thoroughly with water and then dry it before using. You may also re-use sand that has been used to make nitrous oxide by washing it before re-using it.

Electric hot plate, 500 W to 2500 W, WITH VARIABLE HEAT.

Stainless steel dial thermometer [this is the only "metal" device which may be used] that goes to 250 C (450 F). Select the Erlenmeyer flask (next item) and the thermometer so that the thermometer can reach at least to within 1/16" of

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the bottom of the flask through the flask stopper (see below).

A 2000 to 4000 ml PYREX or KIMAX Erlenmeyer Flask.

Several feet of 3/8" clear vinyl or surgical rubber tubing.

At least 4 8mm I.D. glass or plastic tubing "T"'s.

1 120 degree bend 8mm I.D. PYREX GLASS elbow, with about 3" of tubing on each side of the bend.

7 6-8" long pieces of 8mm I.D. glass or plastic tubing.

3 6-8 feet long 1.5" to 2" diam glass or clear plastic pipes.

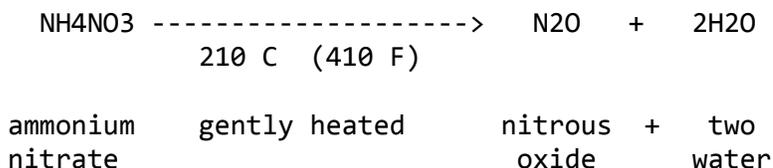
1 two hole rubber or neoprene stopper to fit the top of the Erlenmeyer flask.

One hole should fit the 8mm I.D. PYREX GLASS elbow, and the other hole should fit the stainless steel dial thermometer.

6 one hole rubber or neoprene stoppers that will fit the ends of the clear plastic or glass pipes. The holes in the stoppers must fit the straight 8mm I.D. glass or plastic tubes.

Some super strength plastic trash bags, and some rubber bands.

THE CHEMISTRY:-



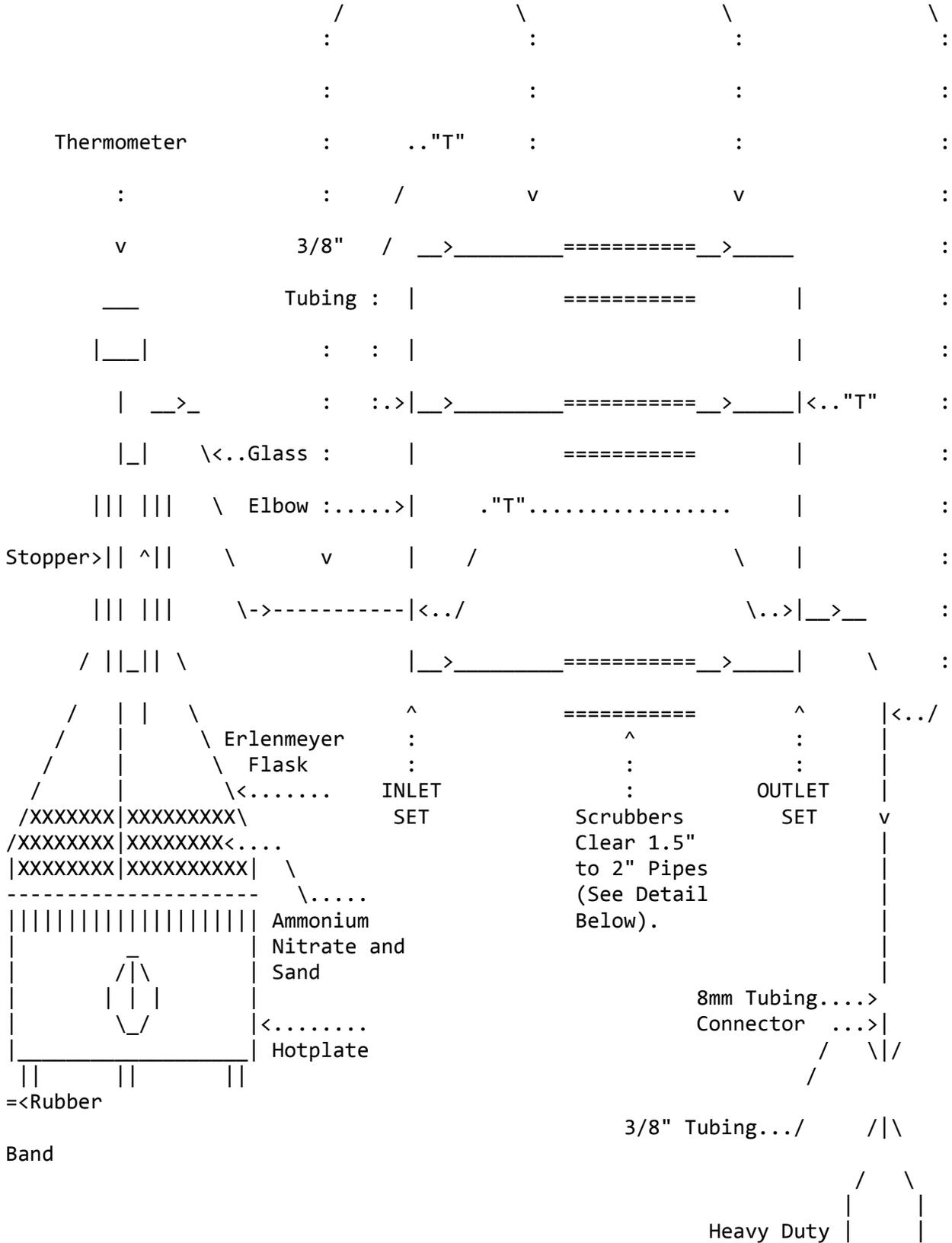
THE SET-UP:-

If you've gotten this far, let me re-emphasize the importance of meeting the quality specifications of the equipment list. If you're serious enough to

go for N2O, you'll want a good setup you can use a long time and enjoy the LAUGHING GAS without worrying about the generating system blasting you to kingdom come.

SET-UP DIAGRAM

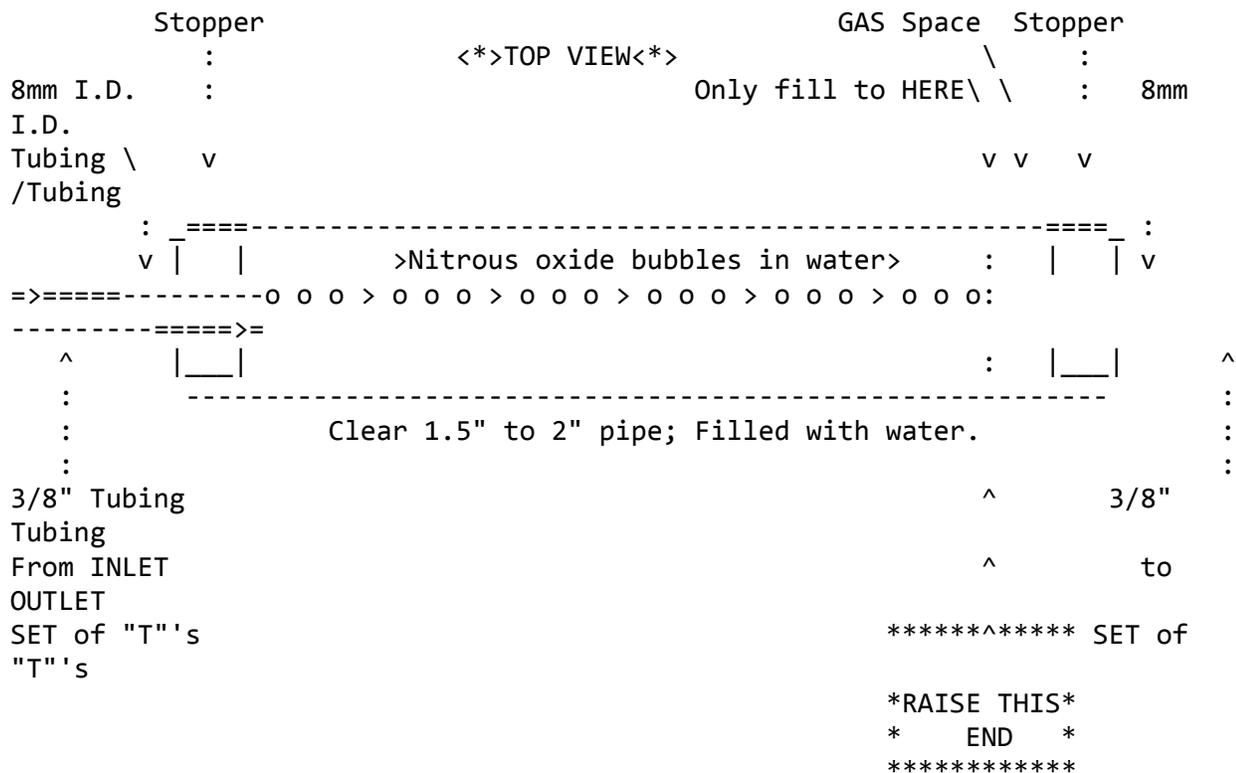
.....



Trash Bag.>| |

Detail:- The Scrubbers

:*****:



ASSEMBLY:-

NOTE: When inserting tubing through stopper holes, ALWAYS WRAP AND HOLD THE TUBING WITH A CLOTH. Also moisten the tip of the tubing and the stopper hole with glycerin, soap or spit (never oil).

1. Into the stopper with two holes, insert the thermometer far enough so that when the stopper is put into the Erlenmeyer Flask, it almost touches the bottom of the flask (but do not allow it to touch it), and then insert one end of the glass elbow far enough the stopper that is sticks out 1/4" to 1/2".
2. Into the six one-hole stoppers, insert a piece of the 8mm I.D. glass (or plastic) tubing so that 1/2" to 3/4" protrudes from the narrow end of the

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First, prepare a quantity of a mixture containing 1/3 sand and 2/3 ammonium nitrate. Then pour enough of the mixture into the erlenmeyer flask to give 1.5" to 2" in the bottom of the flask. Put the flask onto the Hotplate, and insert the two-hole stopper, firmly but not too tight. <<THIS STOPPER IS YOUR SAFETY VALVE WHILE THE SYSTEM IS OPERATING>>. - - - B-U-T - - -

WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING
W W
A Once the heating of the mixture in the erlenmeyer flask has started A
R you must REMOVE THE two-hole STOPPER FROM THE FLASK BEFORE TURNING R
N OFF THE HEAT. Otherwise as the flask starts to cool off, it will N
I draw water from the scrubbers back into the hot flask and may crack I
N or EXPLODE the erlenmeyer flask with the STEAM formed inside. N
G G
WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING

Now you may begin heating the flask. Turn the Hotplate to Medium or Medium and watch the thermometer. (If the temperature climbs very fast, turn the Hotplate down, but be patient about turning it up. Occasional bubbles will be noted going through the scrubbers as the air in the system expands. At 210C (410F) a yellowish to orange-brown mist will begin filling the flask, and the bubbling through the scrubbers will become steady.

At this time, adjust the upper end heights of the scrubber tubes so that each one gets about the same amount of gas passing through it. Keep your eye on the temperature, and it should not climb much over the 210-220C (410-430F) marks. Also the gas at the top of the scrubbers MUST BE PERFECTLY COLORLESS. Otherwise, turn down the heat setting. If the gas flow is too low to give a steady flow through all three scrubbers, increase the heat slightly.

Once you've run your system a time or two, you'll know what your operating settings are.

As soon as the gas flow is steady and clean, connect a receiving bag to the final outlet tube, and allow the bag to fill. It may be necessary to add more ammonium nitrate-sand mixture to the flask from time to time -- Wear Gloves as the flask will be HOT when removing the stopper. It is also a good idea to turn off the Hotplate while the stopper is out of the flask.

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ONCE YOU'VE FILLED A FEW BAGS WITH LAUGHING GAS, YOU'RE READY TO TRY
SOME.
JUST INHALE FROM THE BAG AND HOLD IT IN AS LONG AS YOU CAN. YOU'LL KNOW WHAT
TO DO FROM THERE.

Happy Phreaking -- FZ.

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