



***AUTOMATIC DUST COLLECTION
FOR SMALL SHOPS***

INSTRUCTIONS

GG1005B PARALLEL GATE KIT

Thank you for choosing our Automatic Dust Collection System.

We at Grngate have developed what we hope will be a valuable addition to your shop. Numerous articles have been written about the health risks associated with sawdust. Our goal is to provide you, the woodworker, with both a cleaner and safer shop. Making the entire dust collection operation totally automatic and synchronized with the actual machine operation allows the user to maximize his/her enjoyment of their shop time.

Our staff includes professional design engineers and manufacturing personnel who are also dedicated woodworking enthusiasts. We have tried to address many of the issues with both installation and operation we have encountered over many years of experience. We wish you many years of chip making enjoyment!

Chuck & Petr

DESCRIPTION

The Parallel Gate Kit allows two 4 inch gates to act at the same time from a sensor or manual switch. Having two 4 inch gates is the equivalent of a single 6 inch gate for those machines with larger duct ports or generating a high chip load.

WHAT'S IN THE BOX

The kit includes:

- 2- FOUR INCH GATES
- 1- PARALLEL GATE ADAPTER MODULE
- 1- SENSOR
- 1- TWENTY-FIVE FOOT GATE NETWORK CABLE
- 1- SIX FOOT SENSOR CABLE
- 1- TWO FOOT GATE NETWORK CABLE
- 2- 18 INCH SENSOR CABLES
- 1- INSTRUCTIONS

INSTALLATION

As with all our components, these are also plug-and-play.

- The “SENSOR” jacks on the two gates are connected “GATE” jacks on the Parallel Gate Adapter Module with the 18” Sensor Cables.
- The short 2’ Gate Network Cable is plugged into one of the jacks labeled “NETWORK” on either gate. It can be plugged into either jack on the Gate. They are both the same.
- The other end is then plugged into one of the jacks labeled “NETWORK” on the other gate. Again, it can be plugged into either jack on the Gate. They are both the same.
- A 6’ Sensor Cable is then plugged into the jack labeled “SENSOR/SWITCH” on the Parallel Gate Adapter Module with the other end connected to either a Sensor or Manual Switch.

Here's a close up picture of the Parallel Gate Adapter Module.

Note the labels indicating how to connect the cables.



- The remaining open “NETWORK” jacks on the gates are then wired into the daisy-chained Gate Cable Network.

DUCTWORK

Figuring out how to install the ducting for paralleling a pair of gates might be a little confusing. Here are some suggested ideas and sources for parts. The goal is to end up with an assembly having both six inch input and output ports. Here are several pictures of how to do this.



NOTE: ONLY ON HALF IS SHOWN. THE SAME PARTS WOULD BE DUPLICATED ON THE OTHER SIDE OF THE GATES.

Both pictured duct connections use wyes that have one 6" and two 4" ports. We have found two types of these wyes for a reasonable price. These types of fitting are used extensively in the hydroponics business. The 6-4-4- wye in the right picture is used with two elbows to connect to the gates. Only one side of the gates is shown with ductwork, but the setup is also repeated for the other side.

The couplers are short lengths of 4" drain pipe.

Most major duct material suppliers also offer these types of parts, but they can be rather expensive.

Several sources also offer short rubber collars with clamps that work well. Here's an example:



Rockler Dust Right® 4" Rubber Union
for Dust Collection

Item #: 46301

Here's a link to Ideal Air, a supplier of well-priced wyes and elbows:

[Ideal Air Duct Wyes](#)

[Ideal Air Adjustable Elbows](#)

(Both of the above are hot links. The actual web address is longer.)

Their main web site is: www.ideal-air.com . There's a "FIND A RETAILER" button at the top. Enter your zip code to see if there's one near you.

Although the setup shown in the left picture is somewhat more compact and requires only two elbows, this particular wye is more difficult to find. Although it's an Ideal Air part, we currently do not have a source to suggest. But again, it's a hydroponics part.

We suggest looking for a local source of hydroponics materials using Google, Chrome or your favorite search engine.

There are other sources for wyes and elbows from companies specializing in ductwork such as:

Air Handling Systems (www.airhand.com)

Here's a link to their 6-4-4- wye:

http://www.airhand.com/product_details/y-branch/06x04x04y/

Norfab (www.nordfab.com)

Here's a link to their wyes:

<http://www.nordfab.com/nordfab-products/branches/y-branch/>

Penn State Industries (www.pennstateind.com)

Here's a link to their economy 6-4-4- lateral

<http://www.pennstateind.com/store/R-LAT644.html>

Kencraft (www.kencraftstore.com)

Here's a link to their wyes:

<http://www.kencraftstore.com/trueY.htm>

They offer reasonably-priced products with various crimping options.

Other sources for the wyes are:

Here's several 6-4-4 wyes we found on Amazon:

<http://www.amazon.com/Gary-Metal-WYE/dp/B008D7J6DY>

<http://www.amazon.com/Duct-Branch-HVAC-Ductwork-Fittings/dp/B00E85UQNO>

http://www.amazon.com/gp/product/B0085V08PS/ref=pf_rd_s=lp-top-stripe-944687542&pf_rd_t=201&pf_rd_i=B00E85UQNO&pf_rd_m=ATVPDKIKX0DER&pf_rd_r=0NN0TEBB18AEHP9BCQXA

We have located one plastic 6-4-4 wye.
However, we have not evaluated it.

The part is available from Amazon:

<http://www.amazon.com/Big-Horn-11603-6-Inch-Y-Adapter/dp/B003NE5A82>

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Please contact Grngate at any time if you have questions or concerns regarding your system. You may use our contact page at:

www.grngate.com

email us at:

info@grngate.com

or phone us between 9AM and 5PM during Pacific Time at:

408-872-0504

Again, thanks for selecting our system and we wish you many rewarding and enjoyable woodworking experiences!

NOTES: