



iVAC Quick-Start Guide

ID	Part Number	Part Description	Qty
A	ARS000999	iVAC Pro Automated Magnetic Switch Controller (MSC)	1
B	ARS000002	iVAC Pro Tool Plus Automatic Power Sensor	1
C	ARS115240	iVAC Pro Remote Control	1
D†	ARS000004	4" iVAC Pro Automated Plastic Blast Gate	1
E†	ARS000006	6" iVAC Pro Automated Steel Blast Gate	1
F*†	ARS050200	6" to 5" iVAC Pro Blast Gate Flange Adapters	2
G†	GAB040000	4" Quick-Clamp Blast Gate Machine Adapter	1
H†	GAB050000	5" Quick-Clamp Blast Gate Machine Adapter	1
I†	GAB060000	6" Quick-Clamp Blast Gate Machine Adapter	1

Please unpack the parts carefully and confirm you received each item listed here.
 *Only compatible with the 6" Blast Gate (E).
 † To connect Adapters and ductwork to the Blast Gates you will need: Pop Rivets or #8 x 1/2" Sheet Metal Screws and aluminum tape or Silicone sealant.



Introduction

There are three groups of products that are covered in this quick-start guide:

- a. Transmitters
 - i. iVAC Pro Tool Plus Power Sensor (B)
 - ii. iVAC Pro Remote Control (C)
- b. Receivers
 - i. iVAC Pro Magnetic Switch Controller (A)
 - ii. 4" iVAC Pro Plastic Blast Gate (D)
 - iii. 6" iVAC Pro Steel Blast Gate (E)
- c. Size Adapters
 - i. 5" Flanges (F)
 - ii. 4", 5", & 6" Quick-Clamp Machine Adapters (G, H, I)

The iVAC Pro Magnetic Switch Controller (MSC) controls the dust collector and the iVAC Pro Blast Gates by receiving a radio frequency (RF) signal from either the iVAC Pro Tool Plus Sensor (TP) or the iVAC Pro Remote.

The MSC (A), Tool Plus(B), and the Blast Gate (D/E) each have three operating Modes:

- a. **AUTO:** Follows the programmed signals for operation.
- b. **ON/OPEN:** Overrides automated signals. Remains on/ open regardless of signals.
- c. **OFF/CLOSE:** Overrides automated signals. Remains off/ closed regardless of signals. Accepts programming.

Review the iVAC User Guides provided with each unit for specific details on programming the iVAC Pro system.

Contact our Customer Service Department for further assistance

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READ iVAC'S WARNINGS / USER GUIDES AND YOUR DUST COLLECTION OWNERS MANUAL BEFORE INSTALLING ANY OF iVAC'S PRODUCTS IN CONJUNCTION WITH ONEIDA AIR SYSTEMS' PRODUCTS.

Installation

To use the iVAC Magnetic Switch with your dust collector:

1. The iVAC MSC ships pre-programmed with the same radio frequency (RF) signal as Oneida Air Systems' remote controls. No manual pairing is necessary.

Note: You may continue to use your dust collector's existing remote or the iVAC MSC remote. Either will work to turn on your dust collector. If you have more than one Oneida Air dust collector within range of the MSC, contact iVAC Technical Support for assistance.

2. We recommend enabling the MSC's *Turn On Delay* feature by setting the S3 DIP Switch to ON. It is a required feature if using a dust collector equipped with SMART Boost™.

Note: The Turn On Delay will help prevent power surges and damage to SMART Boost systems. The MSC's LED will repeatedly flash to indicate when this delay is active.

3. We recommend using the longest possible setting for the MSC's *Minimum Run Time* feature. It can be set to 14 minutes by setting the S4, S5, and S6 DIP Switches to ON.

To program your Remote (C) and/or Tool Plus Sensor (B) to transmit signals to operate a Blast Gate (D/E):

4. Modify the DIP Switches on the Remote (S3, S4, S5) and/or the Tool Plus Sensor (S4, S5, S6) to transmit on the same Tool Address as the Blast Gate (S4, S5, S6) in question.

Note: Multiple transmitters can operate on the same Tool Address. However the Blast Gate will accept whichever signals are sent first, whether to Open or Close i.e. multiple signals can conflict or override the other.

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iVAC Programmable DIP Switch Reference Guide

iVAC Pro components include simple DIP switches that can be flipped back and forth to allow for an incredible number of configurations for transmitting and receiving automation signals. These switches can be found:

- a. iVAC Pro Magnetic Switch Controller - Behind a plastic plate on the back of the unit. Must be unscrewed to modify.
- b. iVAC Pro Blast Gate - Behind a black, rubber flip cover on the front of the unit.
- c. iVAC Pro Tool Plus Power Sensor - Behind a black, rubber flip cover on the front of the unit.
- d. iVAC Pro Remote Control - Inside the unit. Must be unscrewed to modify.



CHANGES TO THE PROGRAMMABLE DIP SWITCHES MUST BE PERFORMED WITH THE UNIT'S MODE SWITCH IN THE OFF MODE; CHANGES DONE WHILE IN THE AUTO MODE WILL BE IGNORED.

iVAC Pro Automated Magnetic Switch Controller

System Address	S1	S2	S4	S5	S6	Off Time	Min Run Time
A*	OFF	OFF	OFF*	OFF*	OFF*	5 seconds	0
B	ON	OFF	OFF	ON	OFF	15 seconds	0
C	OFF	ON	OFF	OFF	ON	45 seconds	0
D	ON	ON	OFF	ON	ON	0	0
On Delay Time		S3					
1.5 seconds*		OFF	ON	OFF	OFF	5 seconds	0
1.5 seconds and wait until the dust collector stops (30 seconds)		ON	ON	ON	OFF	1 minute	1 minute
			ON	OFF	ON	1 minute	7 minutes
			ON	ON	ON	1 minute	14 minute

*DIP Switch Factory Setting

iVAC Pro Tool Plus Automatic Power Sensor

System Address	S1	S2	Tool Address	S4	S5	S6
A*	OFF	OFF	1	ON	OFF	OFF
B	ON	OFF	2	OFF	ON	OFF
C	OFF	ON	3	ON	ON	OFF
D	ON	ON	4	OFF	OFF	ON
			5	ON	OFF	ON
			6	OFF	ON	ON
			7	ON	ON	ON
			8*	OFF	OFF	OFF

*DIP Switch Factory Setting
The S3 switch is unused.

iVAC Pro Remote Control

System Address	S1	S2	Tool Address	S3	S4	S5
A*	OFF	OFF	1	ON	OFF	OFF
B	ON	OFF	2	OFF	ON	OFF
C	OFF	ON	3	ON	ON	OFF
D	ON	ON	4	OFF	OFF	ON
			5	ON	OFF	ON
			6	OFF	ON	ON
			7*	ON	ON	ON
			8	OFF	OFF	OFF

*DIP Switch Factory Setting
The S6 switch is unused.

iVAC Pro Automated Blast Gate

System Address	S1	S2	Tool Address	S4	S5	S6
A*	OFF	OFF	1	ON	OFF	OFF
B	ON	OFF	2	OFF	ON	OFF
C	OFF	ON	3	ON	ON	OFF
D	ON	ON	4	OFF	OFF	ON
Closure Time		S3				
50 seconds*		OFF	5	ON	OFF	ON
2 seconds		ON	6	OFF	ON	ON
			7*	ON	ON	ON
			8	OFF	OFF	OFF

*DIP Switch Factory Setting

Contact iVAC's Customer Service Department for further assistance

1-800-775-5579 • info@ivacpro.com • 1-613-599-8988



! SHEET METAL FITTINGS CAN HAVE SHARP EDGES! FOR SAFETY, ALWAYS WEAR WORK GLOVES AND GOGGLES WHEN HANDLING YOUR DUCTWORK!

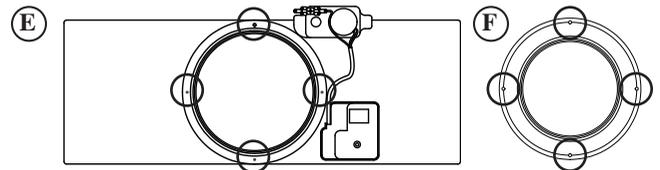
Blast Gate Installation

Reference the below table on what components you need on each end of your 4" or 6" Blast Gate (D, E) depending on what ductwork (Standard, Quick-Clamp, Flex Hose) you are installing.

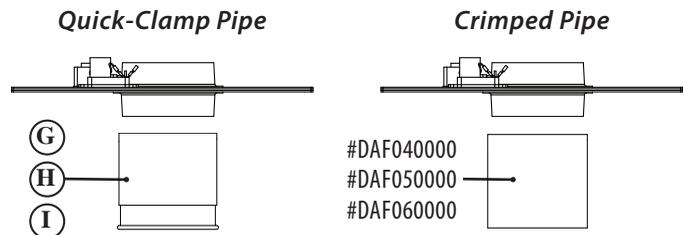
Diameter & Blast Gate	Connecting to	Adapter(s) Needed
4" Diameter #ARS000004 (D)	Flex Hose	None
4" Diameter #ARS000004 (D)	Uncrimped Pipe	None
4" Diameter #ARS000004 (D)	Crimped Pipe	#DAF040000
4" Diameter #ARS000004 (D)	Quick-Clamp Pipe	#GAB040000 (G)
5" Diameter #ARS000006 (E)	Flex Hose	#ARS050200 (F)
5" Diameter #ARS000006 (E)	Uncrimped Pipe	#ARS050200 (F)
5" Diameter #ARS000006 (E)	Crimped Pipe	#ARS050200 (F) #DAF050000
5" Diameter #ARS000006 (E)	Quick-Clamp Pipe	#ARS050200 (F) #GAB050000 (H)
6" Diameter #ARS000006 (E)	Flex Hose	None
6" Diameter #ARS000006 (E)	Uncrimped Pipe	None
6" Diameter #ARS000006 (E)	Crimped Pipe	#DAF060000
6" Diameter #ARS000006 (E)	Quick-Clamp Pipe	#GAB050000 (I)

To convert the 6" Blast Gate (E) to accept 5" fittings:

1. Remove all four nuts and the two bolts from each of the existing flanges and set aside. Discard the 6" flanges if no longer needed.
2. Align each Flange Adapter's holes (F) with the 6" Blast Gate's studs (E) and secure in place with the two nuts that were set aside. Further secure with the two remaining nuts and bolts set aside earlier.



Reference figures below for adapters configurations:



1. After joining ductwork together, secure using either pop rivets or #8 x 1/2" sheet metal screws. Secure in place at a minimum of four locations.
2. Fortify and seal all connections, joints, and seams on your ductwork.
 - a. Seal with adhesive-backed aluminum tape, cutting strips long enough to circle the joint at least twice.
 - a. As an alternative permanent sealing method, silicone sealant is recommended on the outside of connections so ductwork can be disassembled if needed.

Note: Even small cracks create significant air loss. Well sealed ductwork will ensure you have maximum air available at your woodworking machine where it is needed.

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