

Industrial Dry Downdraft Table

Operating Manual

Safety, Operation and Maintenance – Save This Document and Educate All Personnel

Models:

66705, 66720, 66735, 66750, 66765 (33in. x 60in.)



Model: 66705 Shown

Keep workplace area free of contaminants while sanding and finishing wood, fiberglass, solid surfaces and composites.

Model	Motor	Volts / Frequency	Phase
66705	1 hp (746 W)	115 V / 60 Hz	1
66720		230 V / 60 Hz	1
66735		230 V / 60 Hz	3
66750		460 V / 60 Hz	3
66765		220 V / 50 Hz	1

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! WARNING

Read and understand this tool manual before operating your tool. Follow all safety rules for the protection of operating personnel as well as adjacent areas. For safety information, refer to Code of Federal Regulation –CFR 29 Part 1910, NFPA 79, NFPA 70, NFPA 652, IEC, ISO 12100, ISO 14121-2 TR, EN 50281, EN 50495, EN 14986, EN 15188, EN 16009 –Safety Requirements and applicable State and Local Regulations.



Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool.



Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1.



Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statutes, ordinances and/or regulations.



Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.



Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.



Electric shock hazard. Avoid bodily contact with grounded objects, bodies of water. Do not damage cord set.

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.



- Do not use for explosive metallic dust (Aluminum, Magnesium, etc.)
- Do not use this table to sand or grind materials that may create sparks.
- Never use to exhaust chemical vapors.

Tool Intent: The intended use of the machine is for the safe collecting of dust captured through the process of sanding with hand tools of non-metallic materials such as wood, fiberglass, composites, and solid surface etc.

GENERAL POWER EQUIPMENT SAFETY WARNINGS

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE. The term "equipment" in the warnings refers to your (corded) downdraft table. Do not modify Dynabrade products, they must be used as intended. Modifying tools may create hazardous situations.

ASSEMBLY AND OPERATION INSTRUCTIONS

1. When unloading equipment from pallet, all operator's are to remain clear of work-cell.
2. Refer to figures 1-3 on page 10 to review proper caster installation procedure.
3. Use proper/safe methods when transporting equipment. Improper pushing and pulling methods will increase operator strain.
4. With power source disconnected from equipment, slowly raise the table top to access pre-filter blanket. Remove pre-filter and ensure quantity 3 pleated panel filters are in place. If pleated panel filters are present, re-install pre-filter blanket and close top. Do not use equipment without both stages of filtration.
5. Visually inspect plugs and cords for frays, visible damage and signs of deterioration. Damaged or worn components must be replaced by qualified personnel to avoid a safety hazard.
6. Plug equipment into proper outlet based on model/voltage. Always use a grounded power supply. There is an increased risk of electrical shock with an ungrounded power supply. If a power extension cord is used, ensure it is rated for associated model and power requirements.
7. Inspect casters and ensure they are in the locked position, during use and storage.
8. Place workpiece on table top (250 lbs max.)
9. Ensure that the workpiece is fixed so that it cannot become a projectile.
10. Turn table to on position and begin utilizing equipment. When transporting equipment, do not pull in operator direction.

Equipment Use and Care

1. Use the correct equipment for your application. *The correct equipment will do the job better and safer at the rate for which it was designed.*
2. Do not use the equipment if switch does not turn it on and off. *Any equipment that cannot be controlled with the switch is dangerous and must be repaired.*
3. Disconnect the plug from the power source from the equipment before making any adjustments, changing accessories, or storing equipment. *Such preventative safety measures reduce the risk of starting the equipment accidentally.*
4. Store idle equipment out of the reach of children and do not allow persons unfamiliar with the equipment or these instructions to operate the equipment. *Equipment is dangerous in the hands of untrained users.*
5. Maintain equipment. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the equipment's operation. *If damaged, have the equipment repaired before use. Many accidents are caused by poorly maintained equipment.*
6. Use the equipment, accessories, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. *Use of the equipment for operations different from those intended could result in a hazardous situation.*
7. Keep handles and grasping surfaces dry, clean and free from oil and grease. *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*
8. Regularly clean the equipment's air vents. *The motor's fan will draw the dust inside the housing and excessive accumulation of dust may cause electrical hazards.*
9. Do not use the equipment as a means of transportation.
10. Do not transport or use equipment on uneven or incline surfaces.
11. Use caution when opening or closing the top. Switch power off and unplug cord before opening top. Remove all work pieces and tools before opening top to avoid injury. Keep fingers and hands clear when closing the top to avoid injury.
12. Do not operate equipment with tabletop in open position.

Work Area safety

1. Keep your work area clean and well lit. *Cluttered or dark areas invite accidents*
2. Do not operate equipment in explosive environments, such as in the presence of flammable liquids, gases, or (dust 1/32" maximum). *This equipment could create sparks which ignite the dust or fumes.*

Electrical Safety

1. Equipment plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) equipment. *Unmodified plugs and matching outlets will reduce risk of electric shock.*
2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. *There is an increased risk of electric shock if your body is earthed or grounded.*
3. Do not expose equipment to rain or wet conditions. *Water entering equipment will increase the risk of electric shock.*
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the equipment. Keep cord away from heat, oil, sharp edges or moving parts. *Damaged or entangled cords increase the risk of electric shock.*

Personal Safety

1. Stay alert, watch what you are doing and use common sense when operating equipment. Do not use equipment while you are tired or under the influence of drugs, alcohol, or medication. *A moment of inattention while operating equipment may result in serious personal injury.*
2. Use personal protective equipment. Always wear eye protection. *Protective equipment such as dust masks, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injury.*
3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source.
4. Do not overreach. Keep proper footing and balance at all times. *This enables better control of the equipment in unexpected situations.*
5. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. *Loose clothes, jewelry or long hair can be caught in moving parts.*
6. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. *Use of dust collection can reduce dust-related hazards.*
7. Do not let familiarity gained from frequent use of equipment allow you to become complacent and ignore tool safety principles. *A careless action can cause severe injury within a fraction of a second.*

MAINTENANCE AND SERVICE INSTRUCTIONS

Important: A preventative maintenance program is recommended whenever dust collection equipment is used.

- Use only genuine Dynabrade replacement parts to ensure quality. To order replacement parts, specify **Model #** and **Serial #** of your equipment.
- Have your equipment serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained.
- Ensure tabletop is in full open position before performing maintenance.

Routine Preventative Maintenance:

- Unplug power cord for filter replacement or when accessing blower compartment area.
- Inspect and replace pre-filter blanket and pleated panel filters as needed to ensure proper airflow.

Handling and Storage of Tool and Accessories:

- Store equipment in dry environment.

Troubleshooting:

- **Machine does not power up:** Make sure tables power cord is undamaged and plugged into correct power supply. (If machine still does not start, contact a certified electrician for review and repair)
- **Dust Collection performance decreased:** Disconnect power supply of machine and check condition of pre-filter blanket and stage 2 filters. If clogged with dust, replace with Dynabrade parts.
- **Excessive Table Vibration:** Disconnect power supply of machinery and check condition of Blower bearing assemblies. If bearings are worn, replace with Dynabrade parts.

Industrial Dry Downdraft Table

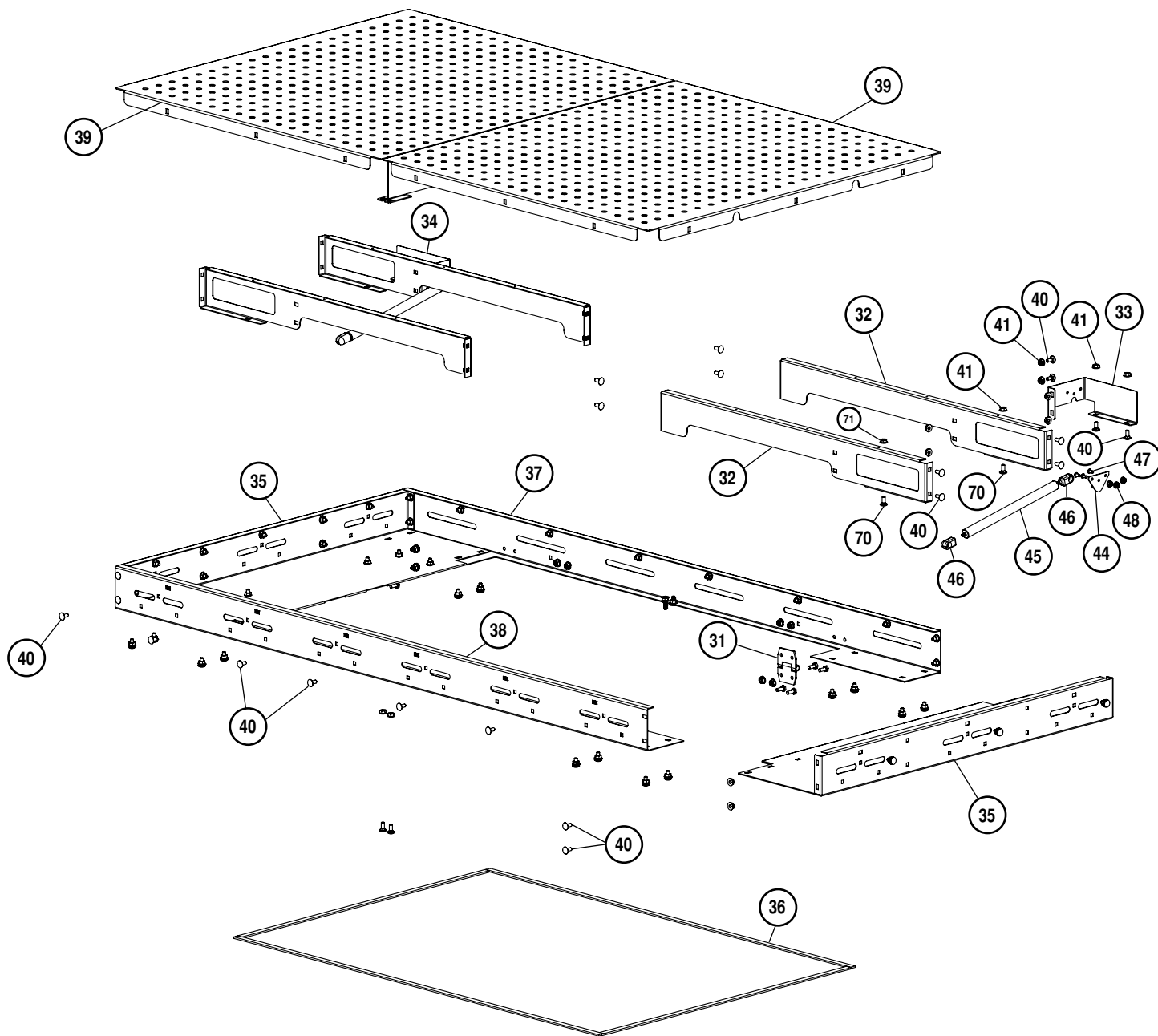
Complete Assembly

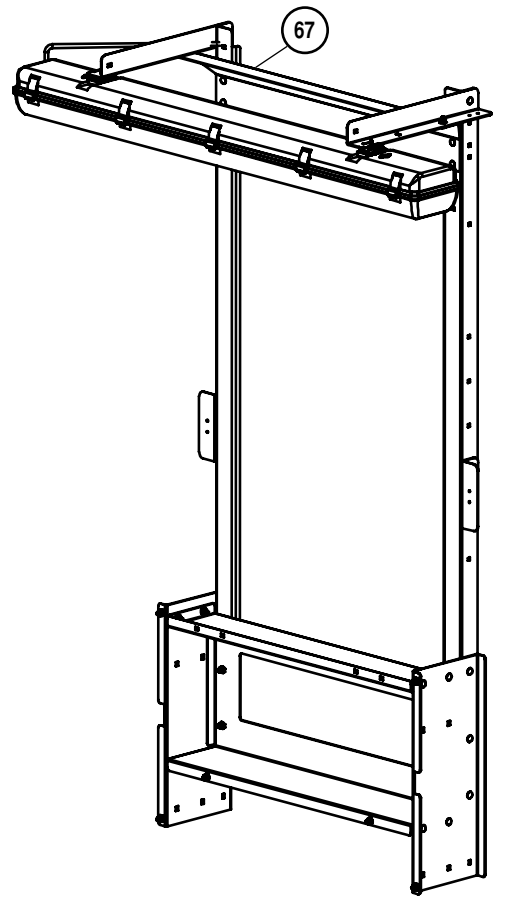
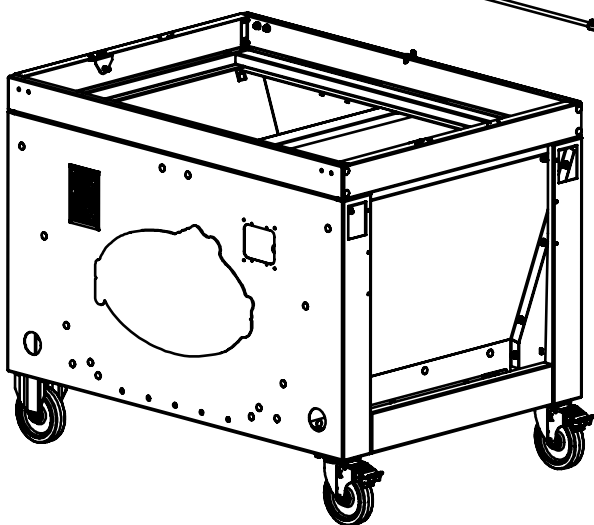
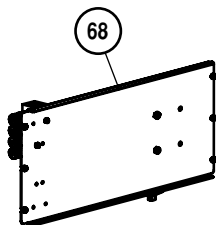
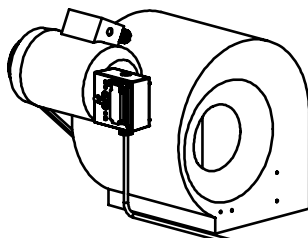
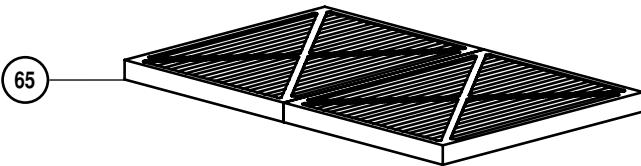
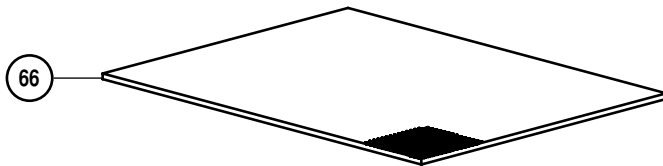
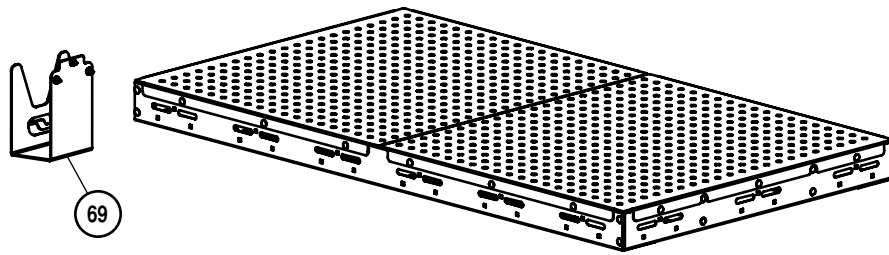
ITEM	P/N	DESCRIPTION	QTY.
1	66470	FRONT PANEL	1
2	66473	BASE EXTENSION	2
3	66326	SIDE PANEL	2
4	66472	REAR PANEL	1
5	66327	FILTER SUPPORT	1
6	66328	TRAY	2
7	66471	LOWER PANEL	2
8	97167	PANEL PLUG	1
9	00002042	RAPTOR LABEL	1
10	64211	BLOWER	1
11	64212 64212 97686 97686 98365	MOTOR FOR MODEL 66705 MOTOR FOR MODEL 66720 MOTOR FOR MODEL 66735 MOTOR FOR MODEL 66750 MOTOR FOR MODEL 66765	1
12	64214	DRIVE SHEAVE	1
13	64213	SHEAVE	1
14	64215	V-BELT	1
15	66330	BLOWER BRACKET LEFT	1
16	66331	BLOWER SUPPORT BASE	1
17	66332	LOUVER SUPPORT LEFT	1
18	66333	LOUVER SUPPORT RIGHT	1
19	66334	LOUVER	13
20	66335	LOUVER GUIDE SUPPORT	2
21	66336	LOUVER GUIDE	1
22	66337	BUSHING	12
23	66338	STANDOFF	4
24	96827	WASHER	2
25	66339	BLOWER BRACKET RIGHT	1
26	66340	BLOWER BRACKET FRONT	1
27	66341	POST SUPPORT	4
28	66342	SPRING	2
29	66361	SPRING	2
30	95172	HEX BOLT	16
31	66399	HINGE	2
32	66477	OUTER TOP SUPPORT	4
33	66349	LEFT AIR SPRING SUPPORT	1
34	66350	RIGHT AIR SPRING SUPPORT	1
35	66478	TOP - SHORT SIDE	2
36	66351	FOAM STRIP	9.4 ft.
37	66474	TOP - REAR SIDE	1
38	66475	TOP - FRONT SIDE	1
39	66476	TOP	2
40	98626	CARRIAGE BOLT	184
41	98570	FLANGE NUT	195
42	96828	RIVET	10
43	64224	BALL BRACKET	2
44	64225	BALL BRACKET	2
45	66352	SPRING	2
46	64223	BALL SOCKET	4
47	97377	SCREW	12
48	96829	LOCKNUT	12
49	64218	SWIVEL CASTER	2
50	64219	RIGID CASTER	2

ITEM	P/N	DESCRIPTION	QTY.
51	97487	SCREW	16
52	96830	LOCKNUT	16
53	64216	OUTLET BOX	1
54	97684 64217	COVER FOR MODELS 66720, 66735, 66750, 66765 COVER FOR MODEL 66705	1
55	64233	CORD	1
56	98701	STRAIN RELIEF	3
57	98709	ELBOW	1
58	97683A/97683B 98298 64240	SWITCH FOR MODELS 66720, 66765 SWITCH FOR MODELS 66735, 66750 SWITCH FOR MODEL 66705	1
59	64242	RECEPTACLE	1
60	98746	LOCK NUT	2
61	98751	SEALING RING	2
62	65059	DESCRIPTIVE PLATE, ELECTRICAL DATA	1
63	97306	RIVET	4
64	98491	SCREW	4
65	64671	FILTER	2
66	64985	PRE-FILTER	1
67	66310	LIGHT MOUNT ACC. KIT	-
68	66311	MANIFOLD ACC. KIT	-
69	66312	TOOL HANGER ACC. KIT	-
70	66488	CARRIAGE BOLT	2
71	94608	SCREW	2

Industrial Dry Downdraft Table

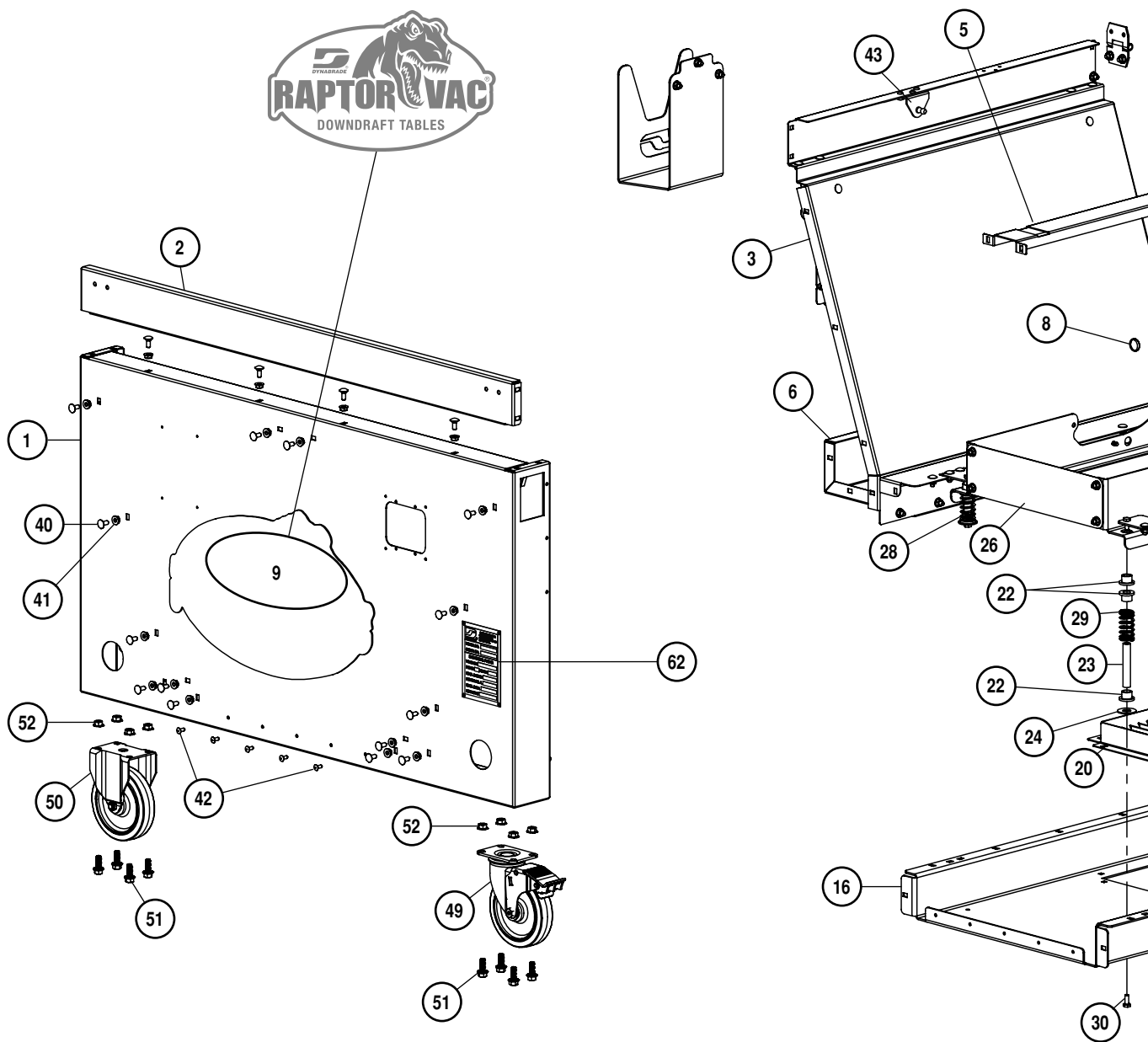
Complete Assembly

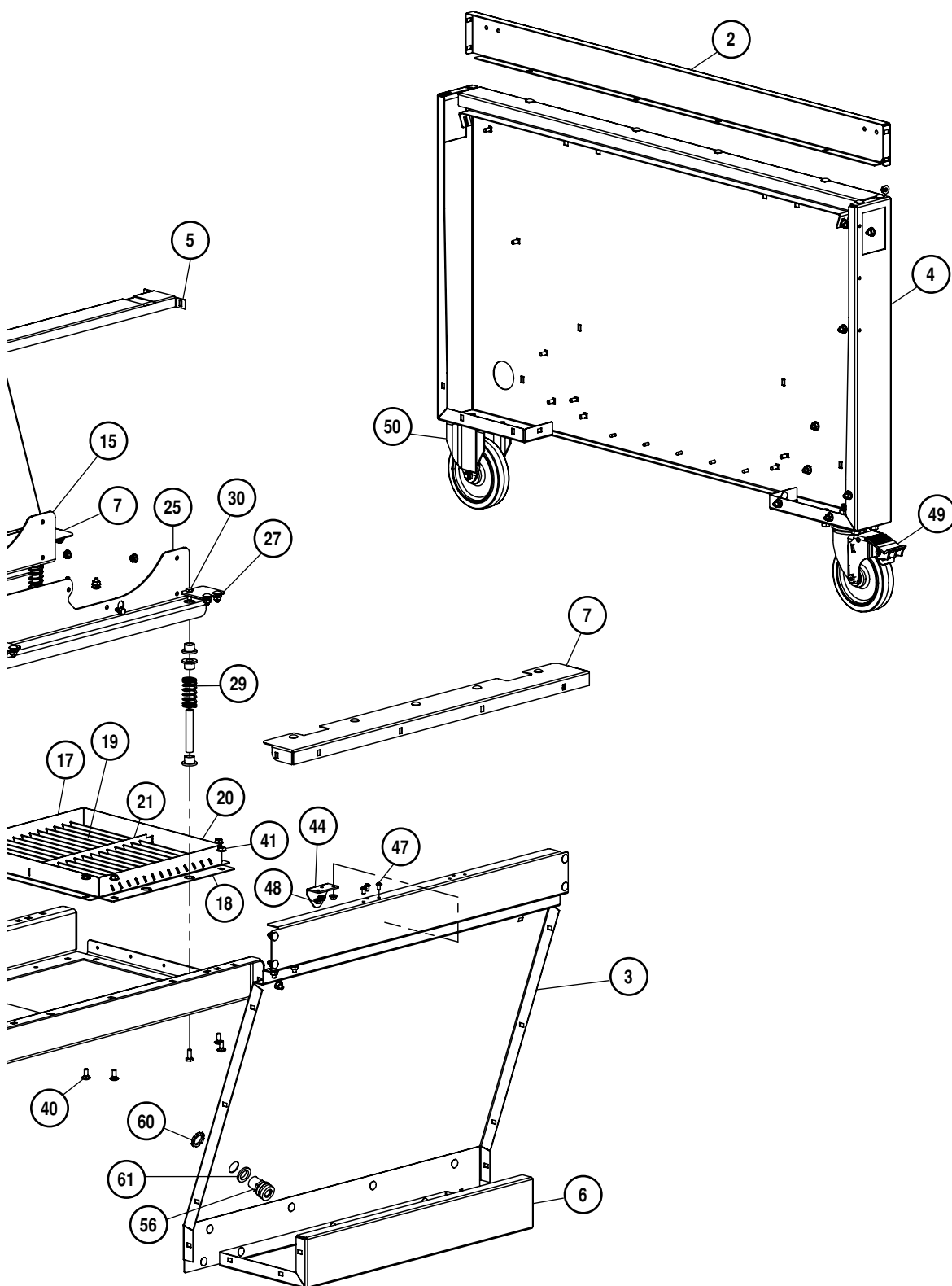




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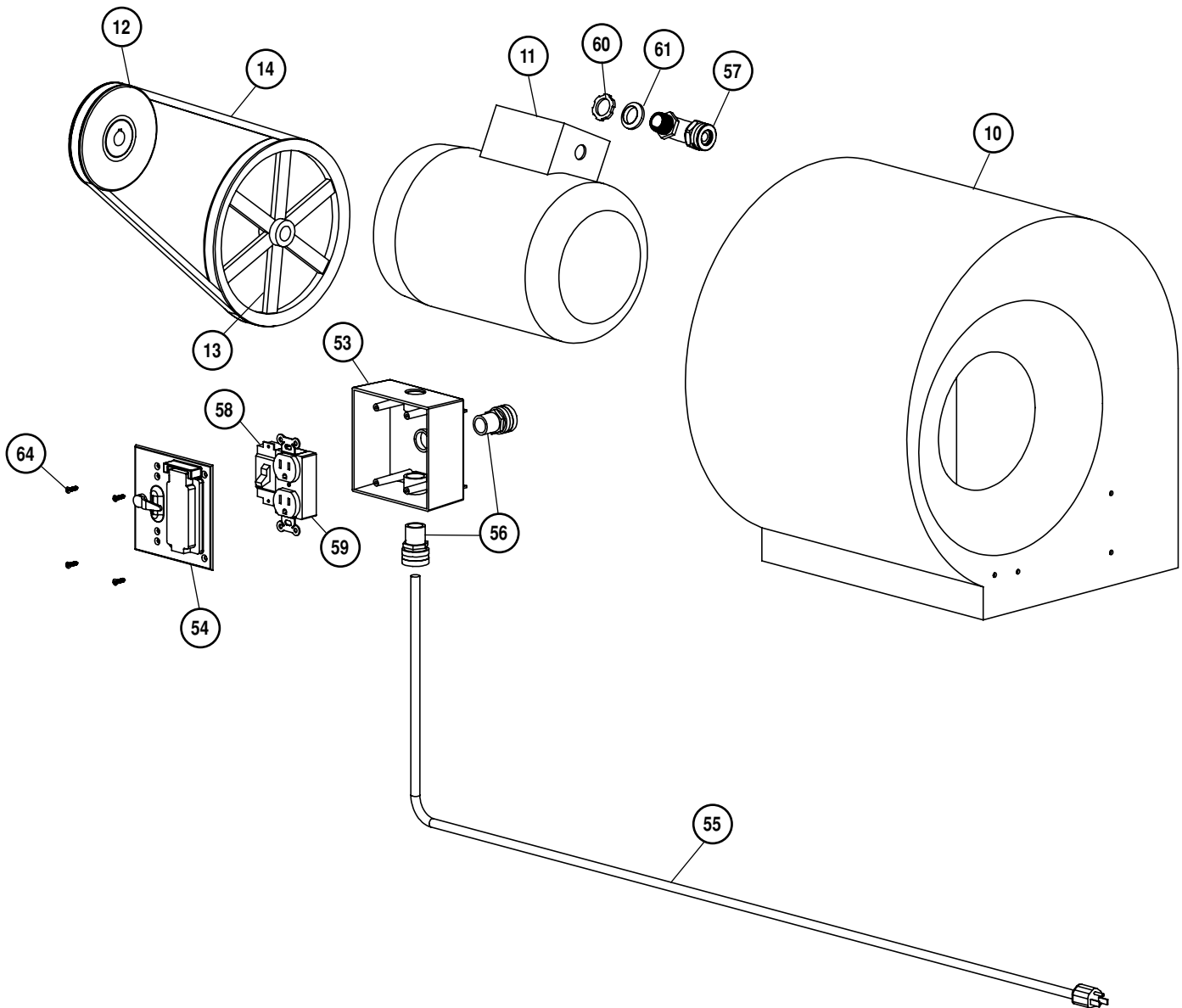
Complete Assembly





Industrial Dry Downdraft Table

Blower Assembly



ONE YEAR WARRANTY

Dynabrade warrants all Downdraft Tables, Metal Capture Downdraft Tables and Metal Capture Downdraft Stations against defects in workmanship and materials under normal use and service for a period of 12 months from the date of purchase as set forth herein.

MACHINE SPECIFICATIONS

Model	Power	Volts/Frequency	Phase	Vacuum Suction	Sound Level	Weight	Working Area Width	Working Area Length	Height
66705	1 hp (746 W)	115 V / 60 Hz	1	2,500 CFM	72 dB(A)	305 lbs. (138 kg)	33" (83.8 cm)	60" (152.4 cm)	36" (91.4 cm)
66720		230 V / 60 Hz	1						
66735		230 V / 60 Hz	3						
66750		460 V / 60 Hz	3						
66765		230 V / 50 Hz	1						

OPTIONAL ACCESSORIES

Tool Storage System

- Magnetic Multi-Function Tool Holder, Black Steel

Part No. 64180



Tool Storage System

- Magnetic Tool Tray, Black w/ Holding Magnets on Side

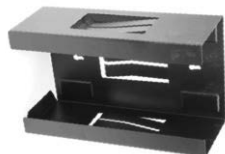
Part No. 64181



Glove Dispenser

- Magnetic Glove and Tissue Dispenser, Pre-Drilled For Optional Wall Mounting, Powder Coated Black

Part No. 64182



Towel Dispenser

- Heavy Duty Steel Holder with Magnetic Backing

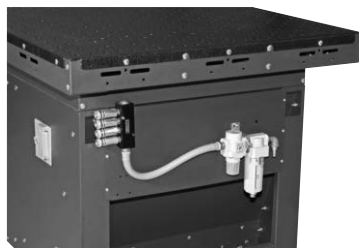
Part No. 64183



Accessory Panel Kit

- FR filter regulator.
- Tool manifold.

Part No. 66311



LED Light Bar

- Adjustable 2-position light bar.

Part No. 66310



*Shown with Model 66705

Replacement Work Surface

- MAR-Free coated work surface.

Part No. 66476



Tool Hanger

- Tool and airline storage.

Part No. 66312



REPLACEMENT FILTERS

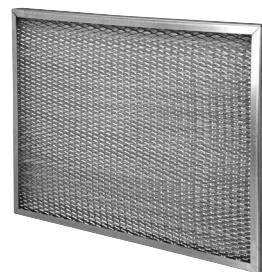
- Standard Paper Air Filter

Part No. 64671 (Qty. 2)



- UL Rated Class I
Non-Flammable Air Filter

Part No. 64672 (Qty. 2)

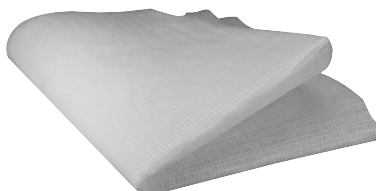


REPLACEMENT PRE-FILTERS

- 33" x 60"

Part No. 64985

Note: Filters sold separately /
12 Filters per case



CASTER INSTALLATION

Figure 1:

When removing Downdraft table from pallet, be sure to install (4) locking casters securely to the bottom of cabinet assembly. Before beginning installation, be sure to strap/brace table as needed to ensure a safe environment for mounting casters in place, using provided serrated flange cap screws and lock nuts.

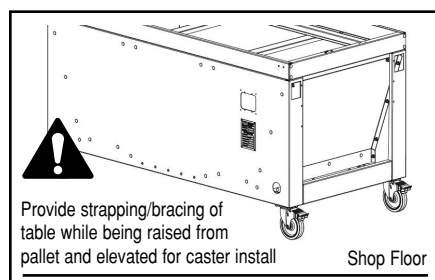


Figure 2:

For each caster, install (4) Serrated flange cap screws and (4) Locknuts as shown. Locknuts to be internal to table as shown in thumbnail image. Be sure to install (2) fixed casters at one end of table, with (2) locking swivel casters at opposite end of table as shown.

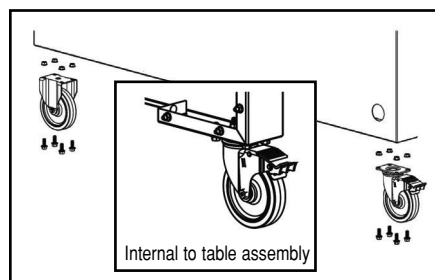
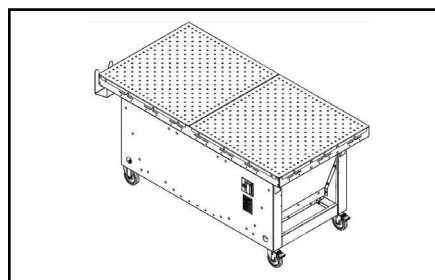


Figure 3:

Once all four casters are mounted rigid in place, carefully lower table to the ground. Your Downdraft table is now ready to be transferred to its intended work-cell. Once positioned into its final location, be sure to lock both swivel casters down to ensure the table will not shift during operation.



REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI)

www.ansi.org

European Committee for Standardization (PNEUROF)

www.pneurof.org

International Organization of Standards (ISO)

www.iso.org

U.S. Government Publishing Office (GPO)

www.gpo.gov

National Fire Protection Association (NFPA)

www.nfpa.org

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