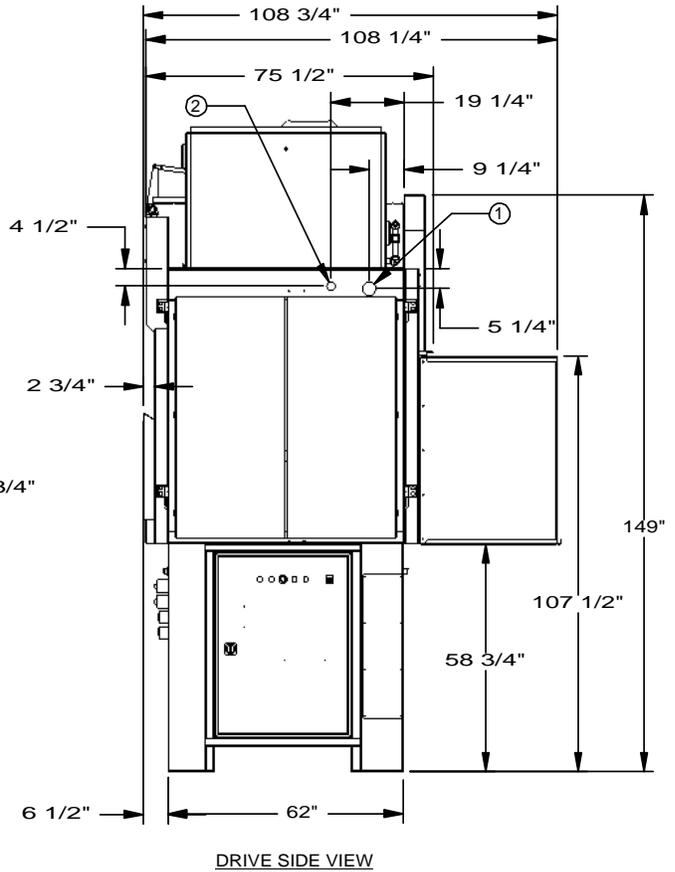
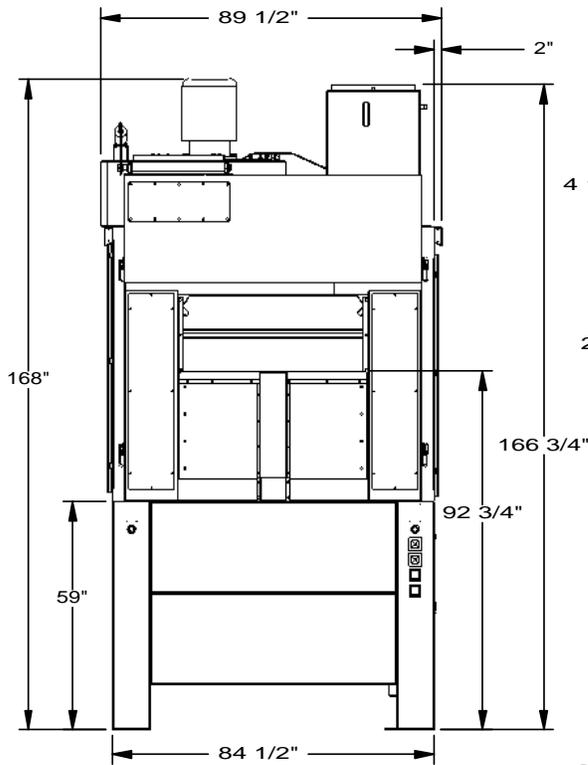
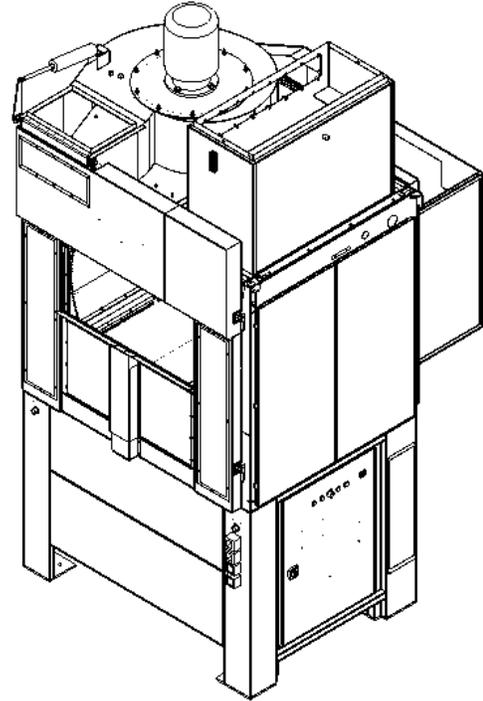
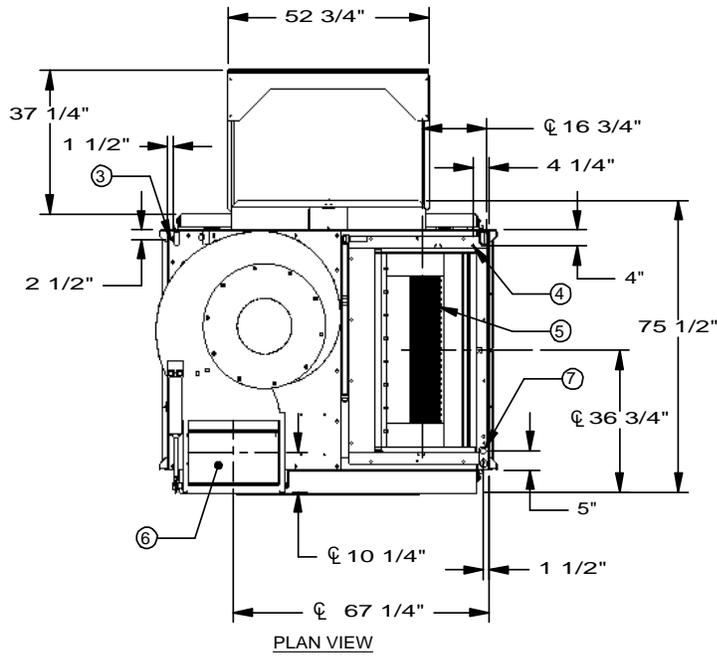




# BRAUN SYSTEM DRYER 300 PBS

G.A. BRAUN, INC., P.O. BOX 3029, SYRACUSE, NY 13220-3029, 315-475-3123





# BRAUN SYSTEM DRYER 300 PBS

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## SPECIFICATIONS CONTINUED

### CAPACITY

Dry Weight: 200-300 Lbs [90 - 136 kg]

### OPENING REQUIREMENTS TO RECEIVE UNIT (2 piece disassembly std.)

#### Shell-

Height: 115" [2921mm] Width: 90" [2286 mm] Depth: 76" [1931mm]  
3486Lbs.

#### Base-

Height: 59" [1499mm] Width: 86" [2185mm] Depth: 67" [1702mm]  
840Lbs.

Note: Shell has permanent fork pockets.

Refer to rigging instructions in O&M manual

### OVERALL DIMENSIONS

Height: 168" [4268mm]  
Width: 90" [2286mm]  
Depth: 76" [1931mm] \*

\*- Does not include the unload chute. Unload chute is shipped flat, ready to mount and assemble.

### SPECIFICATIONS

#### Gas Models NGF/PGF

① Gas supply connection	2"NPT
Natural gas supply pressure	10" to 20" wc
Propane gas supply pressure	3" to 7" max wc
② Gas vent connection (CSA)(IRI)	1"NPT
Burner firing range, NGF (BTU/HR x 1000)	100 to 3000
Nominal firing range, NGF (BTU/HR x 1000)	800
Combustion Blower	660 cfm
Ignition type	Direct spark

#### 300PBS Models

Basket Volume (62 7/8" dia. x 60" deep)	105 CU. FT.
Door Opening	47" w x 20" h
Door load lip height	92 1/2" AFF
Unload height	59" AFF
Minimum dryer spacing, center to center	122"
Machine depth, including discharge chute	102"
Discharge chute opening size	36" x 50"
③ Compressed air connection	1"NPT

### ELECTRICAL SPECS

SERVICE- BASED ON FLA (CONCURRENT MAX HP)	⑤	208/3/60	240/3/60	480/3/60	600/3/60
Main Blower (25HP)		70.5	60.6	30.3	24.3
Basket motor (3HP)		9.3	8.9	4.5	3.9
Combustion Blower (2HP)		6.2	5.6	2.8	2.1
Control Circuit		9.0	8.0	4.5	4.0
TOTAL concurrent FLA		95.0	83.1	42.1	34.3
Minimum disconnect capacity (amp) (115% load)		109	96	48	39
Minimum conductor capacity (amp) (125% largest motor plus other load)		113	98	50	40
Maximum fuse (amp) ( 175% of load)	①	166	145	74	60
Maximum Circuit Breaker (amp) (250% load)	②	238	208	105	86

SERVICE	⑤	208/3/60	240/3/60	480/3/60	600/3/60
Wire to Machine (AWG)	③④	#2 (130A)	#2 (130A)	#6 (75A)	#8 (55A)
Flexible Metal/Rigid Metal Conduit Size (in)	③	1 1/4	1 1/4	1 1/4	1 1/4
Disconnect Switch (AMPS)	③	125	125	60	50
Fusetron	③	125	125	60	50
Circuit Breaker	③	125	125	60	50
Main Blower (25HP)		70.5	60.6	30.3	24.3
Basket Motor (3HP)		9.3	8.9	4.5	3.9
Combustion Blower (2HP)		6.2	5.6	2.8	2.1

- ① Dual element time delay
- ② Inverse time breaker
- ③ THHN 90°C copper wire at 30°C (86°F) ambient (NEC/CSA)
- ④ Local code requirements supersede information in this table
- ⑤ Other voltage/frequencies available, consult factory

As of this writing, the minimum clearance required by U.S. National Electric Code, from electrical box to any object is:

- 36" if object is an ungrounded (insulated) wall
- 42" if object is a grounded wall (i.e. Bare concrete, brick, etc.)
- 48" if object is any live part

**Check your local electrical codes for further restrictions.**



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## EQUIPMENT SPECIFICATION

### BRAUN 300PBS-NGF/PGF TUNNEL SYSTEM DRYER

#### General-

Basket size \_\_\_\_\_ 62 7/8" Diameter x 60"  
 [1,597 x 1,524mm]  
 Cylinder volume (Gross) \_\_\_\_\_ 105 ft<sup>3</sup> [2,973 liters]  
 Recommended capacity \_\_\_\_\_ 200-300 Lbs [90 - 136 kg]  
 Cylinder opening (Usable) \_\_\_\_\_ 47" [1,194mm] Wide x 20"  
 [508mm] High  
 Load height \_\_\_\_\_ 92 1/2" [2,350mm]  
 Unload height \_\_\_\_\_ 59" [1,499mm]  
 Basket rotation speed (fixed) \_\_\_\_\_ 32rpm  
 Basket motor size \_\_\_\_\_ 3hp [2.2kW]  
 Main blower motor size \_\_\_\_\_ 25hp [18.6kW]  
 Combustion blower motor size \_\_\_\_\_ 2hp [1.5kW]  
 Overall Dimensions \_\_\_\_\_ 90" [2286mm] Wide x 102"  
 [2591mm] Deep x 168" [4268mm] High

#### Basket Drive-

Single drive shaft \_\_\_\_\_ 1 15/16" dia.  
 Drive shaft bearings (2) \_\_\_\_\_ Roller type  
 Drive wheels (2) \_\_\_\_\_ 10" x 3"  
 Drive belt (single cog type) \_\_\_\_\_ Polychain  
 Idler wheels (2) (Maintenance free) \_\_\_\_\_ 10" x 3"

#### Shell-

Construction \_\_\_\_\_ 11ga Carbon steel cabinet  
 type  
 Swing out face plates for easy, no-rigging required, access to basket and  
 seals  
 Drive wheels removable through face plates  
 Idler wheels removable through shell access  
 On board lint collector  
 Removable blower housing contains blower motor, wheel, and inlet cone.  
 Removable burner duct contains burner

#### Shell Continued-

Large swinging access doors for access to basket drive, gas train, and lint  
 collector  
 Stainless steel front and rear doors  
 Sealed basket drying chamber minimizes outside air infiltration  
 Forced air unloading system eliminates need to tilt

Customer is responsible to meet all Local,  
 State, and Federal Code requirements  
 including obtaining any applicable permits to  
 install or operate this equipment.

#### Basket-

Type t-304 Stainless steel perforated panels  
 Type t-304 Stainless steel ribs  
 Removable perforation panels  
 Removable ribs  
 Heavy steel running ring and cross-member welded cage construction  
 Over running stainless basket gap rings protect garments from damaging  
 pinch points

#### Electrical/Controls-

B&R BlueLine PLC control  
 Central located controls electrical and pneumatic  
 Plug and play harnesses for electrical  
 Plug and play pneumatic  
 Integrated safety interlock on swinging access doors  
 Basket rotation sensor  
 Ambient, inlet, and exhaust temperature probes  
 Over temperature safety

#### Fire Suppression-

Automatic water valve activation  
 Manual water valve override  
 Standard on all Braun Dryers (Includes Braun/Norman and Norman  
 Dryers)

#### Special Disassembly Options\*-

\*Consult Braun factory for special disassembly options. Weights provided for reference.  
 Packing/skids are nested together to provide the smallest shipping volume possible.

Dryer Shell, complete ready to install on base- 3486Lbs  
 Dryer Shell, both faceplates removed, w/o burner duct, blower duct, access  
 doors, external plumbing removed- 2313Lbs  
 Dryer Base, Complete and ready to receive shell- 840Lbs  
 Burner duct w/ burner, complete ready for assembly to shell- 834Lbs  
 Blower wheel assembly, includes wheel, motor, and duct mounting plate-  
 468Lbs  
 Blower housing, less blower wheel assembly- 354Lbs  
 Blower housing fully assembled including blower wheel assembly-  
 822Lbs  
 Rear Face Plate Assembly, complete and ready to install on shell- 615Lbs  
 Front Face Plate Assembly, complete and ready to install on shell- 694Lbs  
 Dryer Basket- 710Lbs

Please consult Braun Inside Sales for all  
 LOW NOx emissions requirements

## INSTALLATION NOTES

1. All dimensions shown are inches. Millimeters are shown in brackets [ ].
2. These specifications are subject to change without notice. Please contact G.A. Braun for verification of, or to obtain the latest release.
3. Mechanical contractor shall install the main gas pressure reducing regulator and CSA approved gas shut off valve included with each dryer, for each dryer installed. Failure to do so may result in unsatisfactory dryer performance.
4. An external compressed air tank reservoir with trim is provided for dryers in a systems installation. Mechanical contractor is responsible to mount and plumb tank(s). Contact G.A. Braun for details.
5. The external central lint collection vacuum unit shall be installed with separate main circuit breaker. It is not powered by the individual dryers. See interconnect wiring diagram provided with the System Installation Book for complete details. The vacuum unit is provided with a control box with interconnect terminations for each dryer, power on/off, power on indication light, and a manual vacuum unit test button.
6. Install the central lint collection vacuum unit either at the end or in the middle of the dryer line. The vacuum will handle up to 5 dryers.

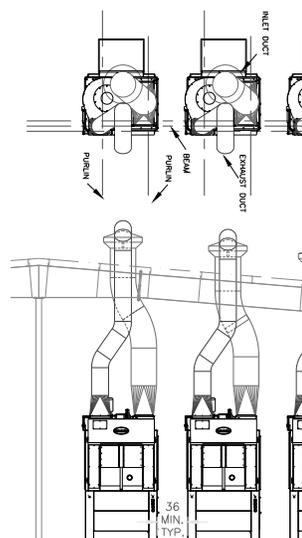


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## DUCTWORK

1. Ductwork sizing is critical. A qualified mechanical contractor or engineer should size the ductwork. Failure to follow good duct design practices will result in improper and poorly functioning equipment.
2. The duct connections on the equipment do not indicate final duct sizes. The ducts must be sized to provide adequate air flow to and from the dryer.
3. Do not exceed the listed total allowed duct system static pressure. This is the combined static pressure of the exhaust and inlet duct.
4. In some cases, by preference or necessity, the dryer inlet air will not be ducted. Instead, the air may come directly from inside the building. Make up air will have to be ducted into the building to account for the air that is pumped out by the exhaust. Refer to the equipment specifications to determine the amount of building make up air required as indicated by the EXHAUST DUCT VOLUME. The number of machines will determine the total make up air volume required.
5. Do not install any type of screen over the ends of the exhaust or inlet ducts.
6. Roof penetration and flashing/curb is by owner. The type and style of roof penetration weather protection for the dryer ducting is best determined by the roof manufacturer, and/or mechanical contractor.
7. Minimum duct material shall be galvanized 18ga construction, for top inlet and exhaust models and 16ga for rear exhaust models on the first 20ft of exhaust duct connection from the blower discharge. SMACNA rules for high pressure duct construction also apply.
8. Round (spiral) duct is recommended over square or rectangular ducting. Square and rectangular ducts tend to "oil-can" and produce excess noise. The seams will become brittle and break over time if the oil-canning is excessive. These ducts tend to build lint internally, more so than round duct.
9. Support ductwork independently of the dryer duct connections.
10. Use of a zero or no loss stack above the roof is recommended, unless ducting to a second stage lint collection device. A no loss stack can be used on both the inlet and exhaust ducts. Maintain at least 5ft. of separation between the ends of the stacks.
11. A goose neck on the exhaust and a weather cap on the inlet are acceptable. Size the ductwork accordingly to account for the restrictions these will add to the duct system.
12. Exhaust duct should be sized so the air velocity does not fall below 2400ft./min. This will help keep any lint collector bypass material from settling out in the ductwork, conveying it to the outside, or to a secondary lint collection system.
13. The prevailing wind direction in your area can effect the discharge direction of the free exhaust air. Goose neck exhaust ducts require special attention. They should not face into the prevailing wind. Be careful not to exhaust one dryer directly toward the inlet of another dryer, or other equipment fresh air intakes.
14. Exhaust discharge can be harmful or dangerous. Pay attention to the proximity of other equipment to the dryer exhaust discharge (This should apply to any equipment with high exhaust discharge temperature). This includes but is not limited to roof top air handling equipment, roof vents, and roof access hatches. Avoid discharging into or near these. A barrier may be required to isolate and protect those items that may be damaged by, or create a danger to, if the exhaust discharge is allowed to blow towards/into them.
15. All elbows shall be long radius and designed with a center line bend radius of at least 2x's.
16. On models with coaxial ductwork, the exhaust duct is inside the inlet duct. Size the exhaust duct first, and then the inlet duct. Do not forget to subtract the area of the exhaust duct from the area of the inlet duct. Failure to do so will cause the inlet duct to be undersized. Undersized ductwork will result in unsatisfactory operation of the dryer.
17. The drawing below gives an example of ductwork installation specific to the **Braun 300PBS Dryer**. This is an example only, and does not represent your specific installation.



### **300PBS TYPICAL DUCTWORK INSTALLATION**

THIS IS A SPLIT DUCT SYSTEM. IN THE ABOVE ILLUSTRATION, THE EXHAUST DUCT RUNS IN FRONT OF THE INLET DUCT.