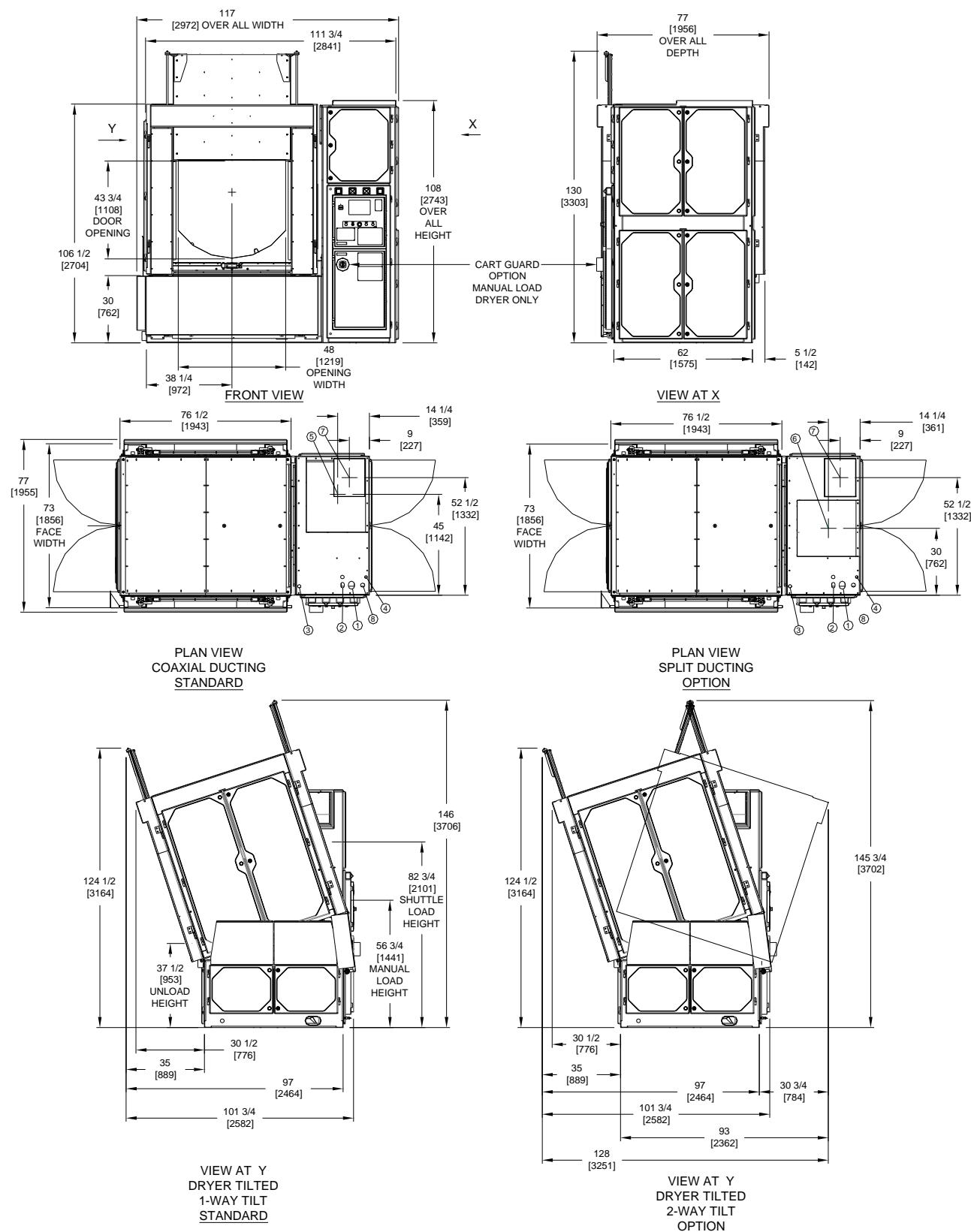




# BRAUN PASS THRU DRYER

## 300 PT – Vertical Slide Door - NGF/PGF

G.A. BRAUN, INC., 79 GENERAL IRWIN BLVD. NORTH SYRACUSE, NY. 13212, 315-475-3123





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### RECOMMENDED CAPACITY

Terry: 150 – 400 lbs clean dry weight [68 - 181 kg]  
 Blended Fabric: 150 – 400 lbs clean dry weight [68 - 181 kg]  
 Barrier Fabrics: 150 – 300 lbs clean dry weight [68 - 136 kg]  
 (ISO Gowns, non-breathable material, etc.)  
 \*Running under 300 lbs [136 kg] clean dry weight with any product may result in reduced dryer performance and efficiency  
 \*\*Running over recommended capacities may result in poor dryer performance and reduced efficiency

### OPENING REQUIREMENTS TO RECEIVE UNIT

Height: 114" [2,896mm] Width: 78" [1,981mm] (include 3" rolls & 3" skids)  
 Refer to rigging instructions in O&M manual

### SPECIFICATIONS

#### Gas Models NGF/PGF

① Gas supply connection \_\_\_\_\_ 2"NPT  
 Natural gas supply pressure \_\_\_\_\_ 18" w.c. [457mm wc]  
 Propane gas supply pressure \_\_\_\_\_ 7" w.c. [178mm wc]  
 ② Gas vent connection (CSA)(IRI) \_\_\_\_\_ 1"NPT  
 Burner firing range, NGF (BTU/HR x 1000) \_\_\_\_\_ 100 to 2800  
 Nominal firing range, NGF (BTU/HR x 1000) \_\_\_\_\_ 800  
 Combustion Blower \_\_\_\_\_ 500 cfm [14.2m<sup>3</sup>/min]  
 Ignition type \_\_\_\_\_ Direct spark

#### 300 PT Models

Basket volume (66"dia. x 60"deep) \_\_\_\_\_ 118 ft<sup>3</sup> [3.34m<sup>3</sup>]  
 Door opening \_\_\_\_\_ 48" w x 43-3/4" h  
 [1219mm x 1111mm]  
 Manual loading height – One way tilt \_\_\_\_\_ 56 3/4" [1,441mm]  
 Manual loading height – (Optional Two way tilt) \_\_\_\_\_ 56 3/4" [1,441mm]  
 Shuttle loading height \_\_\_\_\_ 74 1/2" [1,892mm]  
 Unload height \_\_\_\_\_ 37 1/2" [953mm]  
 Minimum dryer spacing, center to center \_\_\_\_\_ 141 1/2" [3,594mm]  
 Maximum machine depth \_\_\_\_\_ 99 3/4" [2,534mm]  
 ③ Compressed air connection \_\_\_\_\_ 1"NPT

### SHIPPING WEIGHTS/SIZES

Optional 3 piece disassembly (not including skids)  
 Shell dimensions \_\_\_\_\_ 77 1/2"H x 78"W x 77 1/2"D  
 [1969mm x 1981mm x 1969mm]  
 Shell weight \_\_\_\_\_ 4300 lbs [1,950 kg]  
 Base dimensions \_\_\_\_\_ 39.5"H x 80"W x 69"D  
 [1003mm x 2032mm x 1753mm]  
 Base weight \_\_\_\_\_ 1,530 lbs [694 kg]  
 Tower dimensions (laying down) \_\_\_\_\_ 36.5"H x 70"W x 108"D  
 [927mm x 1778mm x 2743mm]  
 Tower weight \_\_\_\_\_ 2,200 lbs [998 kg]  
 Additional break down is available on the shell if necessary. Contact sales.

### (8) ELECTRICAL SPECS

3-PHASE SUPPLY VOLTAGE/FREQUENCY	208/3/60	240/3/60	480/3/60	600/3/60
Conduit Connection	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Machine Disconnect (Internally Mounted Circuit Breaker) (Amps)	125	125	60	60
Machine Full Load Amps (FLA)	89	83	44	34
MAIN BLOWER 25HP (FLA)	66	62	32	24.5
BASKET MOTOR 5HP (FLA)	16.8	15.2	7.6	5.6
COMBUSTION BLOWER 1HP (FLA)	4.1	3.6	1.8	1.4
• <b>Grounding:</b> Ground machine to an earth ground (zero potential) per National Electric Code (NEC) section 250 and any applicable local codes. Use a ground wire sized in accordance with NEC Table 250.122. Do not rely on conduit, machine anchorage, etc. Connect the ground wire between the ground lug on the incoming power junction box on the machine and the external disconnect box or other location as required to assure a reliable earth ground.				
• <b>Branch Circuit Protection:</b> Size external fuses or circuit breakers per the recommended minimum branch circuit requirements listed above. Installation of this branch circuit must be in accordance with the National Electric Code (NEC) and any applicable local codes.				
○ Use only Dual Element (Time-Delay) fuses FRN (up to 250V), FRS (250 to 600V).				
○ If an inverse time circuit breaker is to be used instead of fuses, it should have the same characteristics as FRN/FRS type fuses.				
• <b>Wire Sizing:</b> Wire shall be sized in accordance with the National Electric Code and any applicable local codes. The required wire size will vary with the length of the wire run as well as any specific local codes. The use of THHN type copper supply conductors with a minimum of 90 deg C insulation is strongly recommended.				

### SPECIFICATIONS CONTINUED

Minimum air pressure required, filtered and dry \_\_\_\_\_ 90-100psi [620kpa]  
 Air consumption including lint blow down\* \_\_\_\_\_ 60cfm [1.7m<sup>3</sup>/min]  
 ④ Water supply (Fire suppression system) (40psi minimum) 3/4"NPT  
 ⑤ Air intake duct connection (Coaxial duct) \_\_\_\_\_ 28 1/4" x 34 1/8"  
 [717mm x 866mm]  
 ⑥ Air intake duct connection (Optional Split duct) \_\_\_\_\_ 28 1/4" x 25 1/4"  
 [717mm x 641mm]  
 Air intake duct size \_\_\_\_\_ SEE PAGE 3  
 ⑦ Exhaust duct opening (1 1/2" flanged perimeter) \_\_\_\_\_ 17" x 14"  
 [432mm x 355mm]  
 Exhaust duct volume \_\_\_\_\_ 8,000cfm [227m<sup>3</sup>/min]  
 Exhaust duct size \_\_\_\_\_ SEE PAGE 3  
 Maximum external duct total static pressure allowed \_\_\_\_\_ 1/2"wc [13mm wc]

\*- Consumption based on lint blow down cycle at 32 (programmable) seconds consuming approx 60 ft.<sup>3</sup>[1.7m<sup>3</sup>/min]. Programmed collection times can be increased depending on lint type, causing an increase in air consumption.

### LINT COLLECTION

On-board-  
 Single screen with #62 stainless steel screen mesh, single stage with automatic screen blow down/lint removal \_\_\_\_\_ 2639 in.<sup>2</sup>

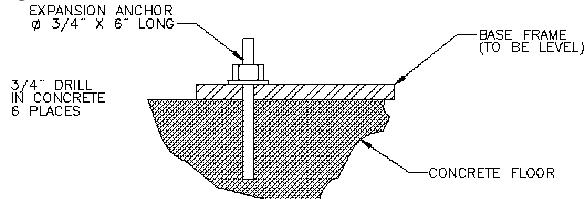
### FLOOR LOADING

Weight of dryer assembly \* \_\_\_\_\_ 8,000 lbs [3,628 kg]  
 Weight of operational loaded dryer (at rated capacity and 60% moisture retention) \_\_\_\_\_ 8,480 lbs [3,846 kg]  
 Lagging \_\_\_\_\_ 3/4" x 6"lg (4 req'd)

\*- Does not include weight of ducting or utility connections. See notes on ductwork.

### FOUNDATION

Floor must be able to support machine, suggested minimum 6", 2500psi concrete. This is necessary to maintain floor integrity and prevent pull out of lagging anchors.



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

Please consult Braun Inside Sales for all LOW NOx emissions requirements



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**EQUIPMENT SPECIFICATION**

**BRAUN 300PT-NGF/PGF DRYER**

**General-**

Basket size \_\_\_\_\_ 66"dia. x 60"deep  
[1,676 x 1,524 mm]  
Cylinder volume (Gross) \_\_\_\_\_ 118 ft<sup>3</sup> [3.34m<sup>3</sup>]  
Recommended capacity \_\_\_\_\_ 300 Lbs [136 kg]  
Cylinder opening (Usable) \_\_\_\_\_ 48" [1,219mm] Wide x  
43-3/4" [1,111mm] High  
Basket rotation speed (fixed) \_\_\_\_\_ 28rpm  
Basket motor size \_\_\_\_\_ 5hp [3.75kW]  
Main blower motor size \_\_\_\_\_ 25hp [18.6kW]  
Combustion blower motor size \_\_\_\_\_ 1hp [0.75kW]  
Overall dimensions (dryer not tilted & doors closed)  
Refer to page 1  
Overall dimensions (dryer tilted & doors open)  
Refer to page 1

**Basket Drive-**

Single drive shaft \_\_\_\_\_ 1 15/16" dia. [49mm]  
Drive shaft bearings (2) \_\_\_\_\_ Roller type  
Drive wheels (2) \_\_\_\_\_ 10" x 3" [254mm x 76mm]  
Drive belt (single cog type) \_\_\_\_\_ Polychain  
Idler wheels (2) (Maintenance free) \_\_\_\_\_ 10" x 3" [254mm x 76mm]

**Shell-**

Construction \_\_\_\_\_ 7ga Carbon steel cabinet type  
Swing out face plates for easy, no-rigging required, access to basket and seals  
Drive and idler wheels removable through shell  
On board lint collector (Optional)  
Removable blower housing contains blower motor and wheel.  
Burner accessible through tower

**Shell *Continued*-**

Large swinging access doors for access to basket drive, gas train, and lint collector  
Lightweight plastic door panels allow for easy liftoff and removal for access to dryer components.  
Sealed basket drying chamber minimizes outside air infiltration

**Basket-**

Type t-304 Stainless steel perforated panels, standard  
Type t-304 Stainless steel ribs, standard  
Removable perforation panels, standard  
Removable ribs, standard  
Heavy forged steel running ring and cross-member welded cage construction.  
Over running basket gap rings protect garments from damaging pinch points  
Optional perforation panel coatings available

**Electrical/Controls-**

SG4 touch screen PLC control  
Central located controls electrical and pneumatic  
Plug and play harnesses for electrical components  
Plug and play pneumatic  
Ambient, inlet, and exhaust temperature probes  
Over temperature safety  
Split high and low voltage control boxes for arc flash protection  
One way tilt standard, two way tilt option

**Fire Suppression-**

Automatic water valve activation  
Manual water valve override  
Standard on all Braun Dryers

**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. (This section pertains only to central lint collection vacuum systems) 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.

**DUCTWORK- Reference Appendix A in the O&M Manual for specific ductwork requirements.**

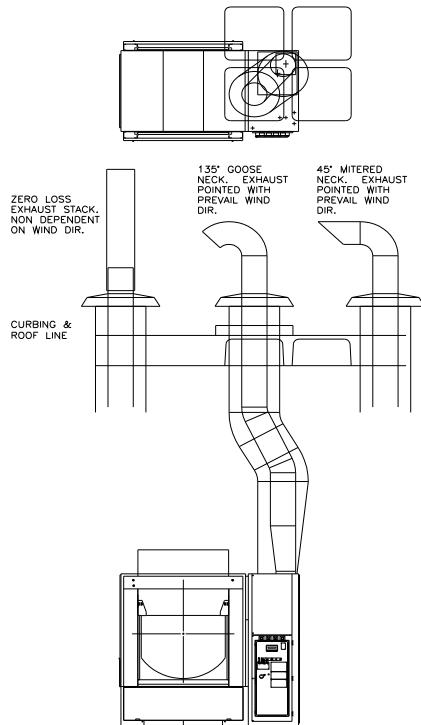
1. Ductwork sizing is critical. A qualified mechanical contractor or engineer should size the ductwork. Failure to follow good duct design and fabrication practices will result in improper, poorly functioning, or inoperable equipment.
2. The duct connections on the equipment do not indicate final duct sizes. The ducts must be sized to provide adequate air flow to and from the dryer.
3. **Do not exceed a total duct system static pressure of 0.5 in. w.c.** This is the combined static pressure of the exhaust and inlet duct. (TOTAL INLET DUCT SP"wc)+(TOTAL EXHAUST DUCT SP"wc)= TOTAL SYSTEM SP
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 dryer 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. This can impede airflow to and from the dryer.



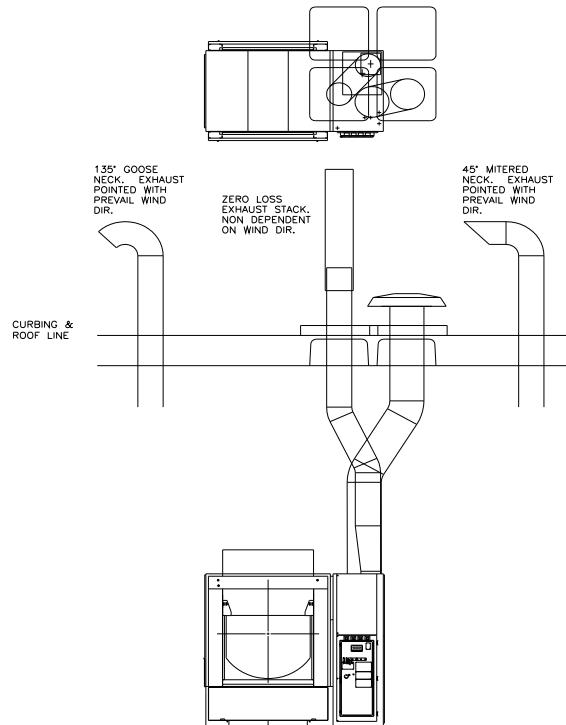
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6. Roof penetration and flashing/curb is by owner. The type and style of roof penetration weather protection for the dryer ducting is best determined by the roof manufacturer, and/or mechanical contractor. Don't void your roof warranty.
7. Minimum 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. If using square duct to transition to an external lint collector, a heavier gauge material may be needed to include bracing support on the square ductwork. G.A. Braun discourages the use of square ductwork, but if used, it must be adequately supported to withstand the normal surging tendencies of the industrial dryer. Stainless steel ducting is not required. SMACNA rules for high pressure duct construction SHALL 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. **If square ducting is used, responsibility for structurally bracing this ductwork to prevent breakage is the sole responsibility of the contractor installing said ductwork. G.A. Braun will assume no responsibility for square ductwork breakage at any point during its life span.**
9. Support ductwork independently of the dryer duct connections. This will help prevent sound transmission from the equipment to the duct work. Also, the dryer is not designed to bear the weight of the duct work.
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 **2,400 ft./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. Exhaust air duct velocity **MUST be maintained at 3,500 ft./min or less.** Failure to keep airflow within these specified limits will void any warranty support of said dryer.
13. The prevailing wind direction in your area can affect the discharge direction of the free exhaust air. Goose neck and mitered elbow 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. No loss exhaust stacks are not affected by wind direction.
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 the duct diameter or cross section..
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. Do not forget to add the static pressure to the inlet duct from the exhaust duct (Friction from the incoming air on the internal exhaust duct). Failure to do so will cause the inlet duct to be undersized. Undersized ductwork will result in unsatisfactory operation of the dryer.



PT Dryer with coaxial ducting



PT Dryer with split ducting