



CONSOLIDATED LAUNDRY MACHINERY

MODEL 165 TG DRYER SPECIFICATIONS

- 165 cubic feet
- Compact gas heated
- Two-door pass-through
- One-way tilt
- PLC control
- High-efficiency Low NOx burner
- High tilt angles
- Two-stage variable speed basket drive
- Door with 3 ports

RECOMMENDED CAPACITY

450 lbs. dry weight.

ELECTRIC MOTORS

- Exhaust blower 15 hp
- Basket drive 5 hp
- Burner blower 3 hp

SHIPPING WEIGHT

7500 pounds

NOTE: Also available in 1-door, 2-way tilt or 2-door, 2-way tilt configurations

BASKET

The basket shall have a volume of 165 cu. ft. and shall be constructed of 10 gauge perforated metal with 3 main and 3 secondary lifting ribs, supported by four 10" polyurethane rollers equipped with timken roller bearings and guided at each end by a total of four 5" polyurethane rollers equipped with timken roller bearings. All rollers shall be located outside of the sealed heating chamber.

BASKET DOORS

The basket load door shall be a minimum of 42" in diameter (48" optional) and shall seal to and rotate with the basket to prevent the possibility of damage to products being dried. The doors shall be operated by an air over oil mechanism for smooth opening and closing. There shall be two basket doors to provide for loading at one end and unloading at the opposite end of the basket, unless the "1-door, 2-way tilt" option is selected. The load door shall include 3 ports to allow the operator to view the load, inside.

BASKET DRIVE

The basket shall be driven by v-belts around the circumference of the basket. There shall be a self-adjusting, constantly variable tension device to keep the belts properly tensioned. The belts shall be located outside of the sealed heating chamber. A 2-stage variable speed basket drive shall be included to allow the operator to adjust the basket speed for the best material drop for goods of varying weight. A second speed adjustment can be programmed later in the cycle to maintain the correct drop of the lighter/drier goods. The basket drive also gives a component-saving soft-start for basket start-up and for basket reversing.

MACHINE TILT

The main housing shall tilt a minimum of 20° to facilitate fast and easy loading and unloading of the machine. The tilt mechanism shall consist of two 5" i.d. double-cushioned air cylinders.

HEAT SYSTEM

A high-efficiency Low NOx burner shall be coupled to a full flame spectrum modulating system with pre-air/gas mixing for proper combustion before entering the drying chamber. The combustion chamber shall be constructed of a steel inner chamber with a steel outer jacket separated by a cooling space using the intake air as an insulator and to pre-heat the incoming air. Maximum firing rate of the burner shall be 2,500,000 btu/hr and average firing rate shall be 1,700,000 btu/hr at 15" wc pressure.

HEAT CONTROL

The flame modulating and temperature control shall be PLC controlled and shall control either inlet or outlet temperature, and shall dry automatically or by time, and shall cool-down by time or to programmed temperature.

EXHAUST SYSTEM

The exhaust blower shall be single inlet, dynamically balanced and belt driven from a 15 hp motor to afford a minimum air flow of 8500 cfm. There shall be a device to automatically clean accumulated lint from the rotor at the beginning of each cycle.

OPTIONAL EXHAUST HEAT RECIRCULATION

If specified, there shall be provided a means of automatically recirculating heated exhaust air to further increase drying efficiency.

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SERVICES:

ELECTRICITY

Varies with voltage characteristics
70 fla at 230v

AIR

½" npt connection
80 psi minimum

WATER

¾" npt connection
80 psi minimum

GAS

2" npt connection
15" wc minimum

EXHAUST DUCT

Minimum 24" diameter or 460 sq. in.
Maximum 1.0" wc backpressure

STANDARD OUTSIDE AIR MAKEUP

There shall be a means of providing makeup air directly to the burner and combustion chamber from outside the plant to prevent negative air pressure within the plant. The inlet duct shall have a minimum diameter of 26". A double insulation package shall be installed inside the makeup ducting to lower both high and low frequency sound, in addition to reducing ambient heat levels.

PLC CONTROLS SHALL PROVIDE:

- A.** Sealed, color touch-control panel to program and control machine functions including start & stop, reverse/non-reverse selection and recirculation time.
- B.** Full color readout of inlet & outlet temperatures, time, program number, faults, dryer cycle, excess exhaust back-pressure and other pertinent information.
- C.** Ninety six (96) user programmable drying formulas with multi-level password protection to prevent operators from over-riding management decisions.
- D.** Ability to automatically dry or dry by time, cool-down by time or to programmed temperature, dry by inlet temperature or outlet temperature.
- E.** Ability to program the basket speed for each formula and to make a second speed adjustment near the end of the cycle to maintain the correct material drop.
- F.** Optional ability to transfer programs to other Consolidated dryers with PLC controls.
- G.** Control full-flame-spectrum modulation with 40:1 turndown ratio.
- H.** Lint trap controls for optional Consolidated lint collector.

OPTIONAL STAINLESS STEEL DRY LINT COLLECTOR

If specified, a stainless steel lint collector shall be built onto and integrated with dryer including integral air receiver for end-of-cycle lint blowdown. There shall be a separate lint collector automatic fire safety suppression system with alarm, but no separate utility connections to lint collector shall be required, and transition to lint collector shall be factory installed. The only connection required to lint collector shall be that of a single 24" diameter exhaust duct to the atmosphere. Lint shall automatically be removed to a large lint bag at the end of each cycle.

INTERLOCKS, SAFETY DEVICES & OTHER FEATURES SHALL CONSIST OF:

- Automatic fire safety suppression system with alarm
- Exhaust blower rotation sensor
- Blower burner rotation sensor
- Basket rotation sensor
- Tilt interlock safety switches
- Door safety switches
- Guards on moving parts
- Tilt and door warning bell
- Electrical interlock to prevent door and tilt mis-operation
- Door opens on power failure
- Fireeye flame protection device
- Automatic gas shutdown in case of increase or reduction in gas pressure (option).
- Circuit breaker w/mechanical interlock to prevent opening of electrical panel with power on.
- Thermal overload protection devices for all motors
- Both hands required to close doors
- Manual fire suppression system switch with guard to prevent accidental activation
- Bell and light to indicate end of cycle
- Momentary basket jogging switch

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