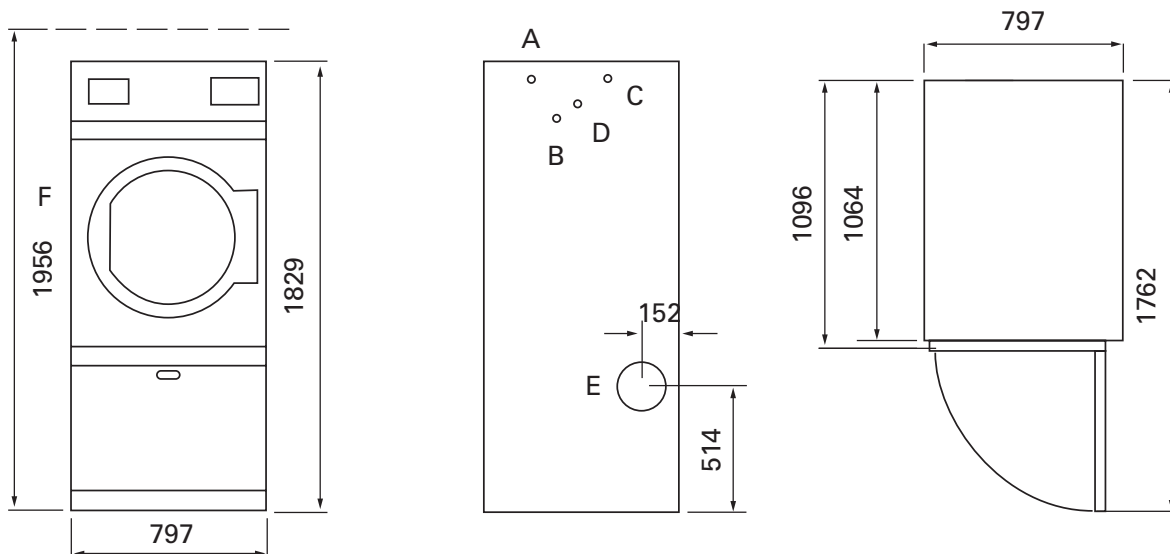


AD30 DRYER

Installation Specification - Dimensions shown in millimetres

AD30/02/00/1



A - Steam Return, B - Gas Inlet, C - Steam Inlet, D - Electrical connection, E - Exhaust Outlet, F - Operating Height of Steam Model

Model	AD30	
Dimensions (HxWxD)Gas/Electric/Steam	1829 x 797 x 1096mm	
Dimensions (HxWxD)Boxed	1960 x 840 x 1120mm	
Weight (loaded)	224.5kg (495lb)	
Min service area at rear	400mm	
Electrical		
Standard Gas or Steam	1ph 240v 50hz	13A
Electric	24kw	3ph 415v
	30kw	3ph 415v
Gas		
Heat input	26.4kw (90000BTU)	
Pressure	Natural gas	19mb - 24mb + / - 1mb (7.5" - 9.5"wc)
	LPG	Propane 37mb(14.8"wc) Butane 28mb(11.2"wc)
Inlet size	1/2" BSP via 3/4" flexible armoured hose	
Exhaust & Ventilation		
Exhaust outlet size	200mm(8")	
Total max. length	20m (66ft)	
Equiv. length of fittings	90°bend = 4.5m (15ft) to form part of the total max length	
	45°bend = 2.25m (7.5ft) to form part of the total max length	
Airflow	Gas/Electric	17cmm (600cfm)
	Steam	21.2cmm (750cfm)
Free air intake requirement	30 x 30cm (1x1ft)	
Steam		
Consumption	47.2kg/hr (104lb/hr)	
Operating Pressure (maximum)	8.8kg/cm3 (125psi) (minimum) 7kg/cm3 (100psi)	
Connection	1"BSP	
Steam return	1"BSP	
Compressed air (Steam model only)		
Consumption (maximum)	0.2m3/hr (0.75ft3/hr)	
Pressure	80psi	
Connection	1/8"	

Foundations

The machine should be sited on a firm level floor capable of withstanding its loaded weight.

Electrical supply

Single phase - Each dryer must be provided with a separate isolation point, usually a fused switched spur outlet. Electrical connections are made inside the rear service box located at the upper left of the machine. Notice must be taken of the connection diagram.

Ensure that the machine is also earthed correctly using the copper lug provided.

Three phase - A separate circuit serving each dryer must be provided. On gas and steam models connection is made in the service box at the upper left at the rear. On electric heat models the connection is made on the oven contactor at the rear. The isolator must be in an accessible position for emergency shut off. A competent installer must carry out all work. All work and materials must comply with local and national codes of practice. The machine must be installed using correctly sized cable (not provided) and an appropriate protection device, i.e. fuse or circuit breaker.

Gas supply

Ensure that the correct pressure is supplied to the dryer. Depending upon the type of gas used if the inline pressure exceeds that which is required a regulator should be fitted. If this is the case consult the supplier.

The machine is designed to burn at a certain rate, known as the BTU or kW rating of the appliance. To ensure that this rate is maintained the gas supply should remain constant. To achieve this the supply line must be of the correct size. Distance from the meter and other appliances on the same supply will have an effect on the pressure. Each dryer should have a gas isolation tap test gauge point, and restraining wire/chain.

The machine should be connected to a supply using a flexible armoured hose as vibrations could cause a solid connection to fracture. The hose may have union or bayonet connection points. A bayonet connector should not be used as an isolation point. A qualified and competent person should carry out the installation of the gas supply.

All gas work must be carried out by a registered CORGI gas operative and must comply with all regulations relating to the installation.

Exhaust

All exhaust ductwork must be designed by a competent operative to ensure that the installation does not have any detrimental effect on the performance of the dryer. The duct should follow the shortest possible route to atmosphere using the least number of bends possible and should be constructed of a smooth wall, rigid stainless steel or galvanised tubing. The diameter of the duct must never be reduced in size. Flexible ducting should only be used for a short final connection to the dryer. If a common duct is to be used to vent a multiple dryer installation the diameter shall be increased to accommodate the cumulative effect of all the dryers.

Exhaust terminations may be hooded weather cowl (china hat) for vertical ducts or a downturn 90° elbow for horizontal. Louvres or grills may be used to prevent entry by foreign objects but consideration must be given to potential restrictions to air flow. When louvres and grills are used they must be in an accessible location for regular cleaning.

We recommend that the supplier should be consulted for any multiple dryer exhaust systems. Duct terminations must be a minimum of two metre away from opening windows and any other means of ventilation.

The exhaust should be properly sealed at all joints by ducting tape (not rivets).

Ventilation

The dryer removes a large amount of air, while it is operating, from the room via the exhaust. Therefore the air inside the room must be continually replenished with fresh air from atmosphere. If there is an imbalance between the air being pushed out to that which is being drawn in, there will be an adverse effect on the performance and operation of the dryer.

Where louvres or grills are fitted then the size should be increased to achieve the correct size of free air space. Ventilation must be fixed and unrestricted. Ventilation should not be positioned within two metre of exhaust duct outlet. If more than one dryer is installed the opening can be increased to match their requirements; there is no need to make a separate opening.

Steam

All steam pipework in the installation must be sized by a competent operative taking into account the distance from the steam source and the amount of steam that is required. The steam supplied must be dry. Final connection to the steam coil shall be made with a flexible hose. Suitable isolation taps and a strainer must be fitted to facilitate ease of service.

A condensate return line must be fitted incorporating a trap mounted 300mm below the steam coil outlet, non-return valve and isolation tap.

All pipes should be lagged and form part of a pressure systems examination scheme.

Note! For steam dryers a clean, dry, regulated compressed air supply at 70 - 80psi is required.

Site conditions may vary and these should be taken into account when planning the exhaust.