

Mobile Self-Contained Catalytic Infrared Drying Units

The Fercell range of low running cost flameless LPG gas fired Catalytic Mobile Drying units are suitable for the curing of heat sensitive lacquers, powder coating, paint and water based coatings.

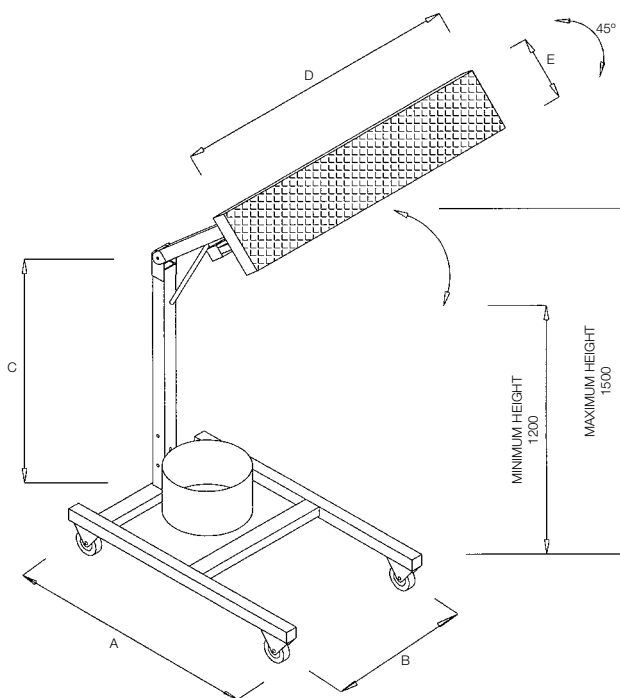
The Thermo Catalytic Heater provides an economical source of heat, which is completely safe, even in the presence of flammable solvent based liquids and vapours. VOCs or solvent vapours passing across the face of the heater emitter are combusted flamelessly in the same manner as the fuel. Therefore the destruction of the solvent is advantageous as the emitter actually helps to clean up the atmosphere effectively reducing VOC emissions to the atmosphere.

As there are no flames present, the sole products of combustion are carbon dioxide and water vapour. There are also no emissions of carbon monoxide, nitrogen oxide or sulphur dioxide.

The heater has an electrically controlled ignition device. Once the heater has finished it's electrical pre-heat cycle it will run on the LPG gas alone. The electrical supply can then be disengaged and the heater brought into the hazardous area (spray room or drying room).

Fercell can fit a Zone 1 EExd electrical lead and plug onto the heater, if required, as all of the fittings on the Fercell heater are Zone 1 EExd approved, so that pre-heating can take place in the hazardous area.

Gas bottle not supplied.



Specification							
Model	A mm	B mm	C mm	D mm	E mm	Heat Output Btu/hr	Weight Kg
IRM 30/90	1120	720	1270	900	300	18000	60
IRM 30/15000	1120	720	1270	1500	300	30000	68

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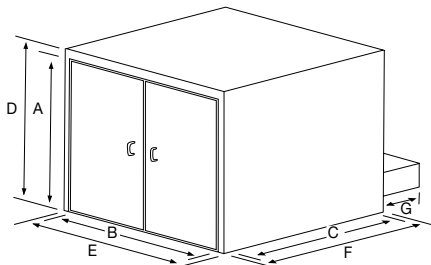
The Fercell range of Ribbon Burner and Air Recirculation Box Ovens are manufactured to a high standard in heavy gauge, formed sheet steel. They are all of a twin walled, fully insulated construction and are suitable for operating within a temperature range of 50°C to 250°C.

As standard, a single pair of hinged doors is fitted to the front of the oven. The doors have a manually operated handle which is coupled to a top and bottom locking arm.

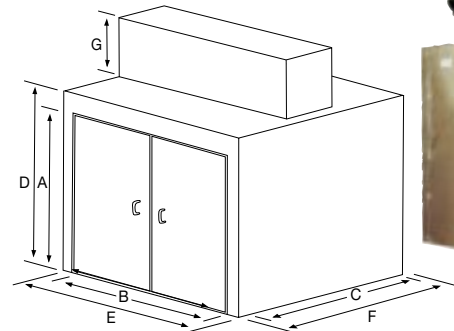
As a safety feature, an internal door release mechanism is fitted as standard and is for use in an emergency.

Appropriately sized explosion relief apertures and dilution vent connections are also fitted as standard.

A second pair of hinged doors can also be fitted, if required, to the rear of the oven.



Ribbon Burner model



Air Recirculation model



The Fercell drying ovens are manufactured in a range of standard sizes. With specials made to a customer's individual requirements



Accurate Digital Electronic Temperature Control



Specification FE/AR Air Recirculation Models							
Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm
FE/AR 10/10/10	1000	1000	1000	1225	1300	1150	750
FE/AR 15/10/10	1500	1000	1000	1725	1300	1150	750
FE/AR 20/10/10	2000	1000	1000	2225	1300	1150	750
FE/AR 20/15/15	2000	1500	1500	2225	1800	1650	750
FE/AR 20/20/20	2000	2000	2000	2225	2300	2150	750
FE/AR 20/20/25	2000	2000	2500	2225	2300	2150	750
FE/AR 20/20/30	2000	2000	3000	2225	2300	2150	750
FE/AR 20/25/25	2000	2500	2500	2225	2800	2650	750
FE/AR 20/25/30	2000	2500	3000	2225	2800	3150	750
FE/AR 25/20/20	2500	2000	2000	2725	2300	2150	750
FE/AR 25/20/25	2500	2000	2500	2725	2300	2650	750
FE/AR 25/20/30	2500	2000	3000	2725	2300	3150	750
FE/AR 25/25/25	2500	2500	2500	2725	2800	2650	750
FE/AR 25/25/30	2500	2500	3000	2725	2800	3150	750
FE/AR 25/25/40	2500	2500	4000	2725	2800	4150	750
FE/AR 25/30/30	2500	3000	3000	2725	3300	3150	750
FE/AR 25/30/40	2500	3000	4000	2725	3300	4150	750
FE/AR 25/30/60	2500	3000	6000	2725	3300	6150	750
FE/AR 30/30/30	3000	3000	3000	3225	3300	3150	750
FE/AR 30/30/40	3000	3000	4000	3225	3300	4150	750
FE/AR 30/30/60	3000	3000	6000	3225	3300	6150	750

Specification FE/RB Ribbon Burner Models							
Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm
FE/RB 10/10/10	1000	1000	1000	1100	1150	1150	500
FE/RB 15/10/10	1500	1000	1000	1600	1150	1150	500
FE/RB 20/10/10	2000	1000	1000	2100	1150	1150	500
FE/RB 20/15/15	2000	1500	1500	2100	1650	1650	500
FE/RB 20/20/20	2000	2000	2000	2100	2150	2150	500
FE/RB 20/20/25	2000	2000	2500	2100	2150	2650	500
FE/RB 20/20/30	2000	2000	3000	2100	2150	3150	500
FE/RB 20/25/25	2000	2500	2500	2100	2650	2650	500
FE/RB 20/25/30	2000	2500	3000	2100	2650	3150	500
FE/RB 25/20/20	2500	2000	2000	2600	2150	2150	500
FE/RB 25/20/25	2500	2000	2500	2600	2150	2650	500
FE/RB 25/20/30	2500	2000	3000	2600	2150	3150	500
FE/RB 25/25/25	2500	2500	2500	2600	2650	2650	500
FE/RB 25/25/30	2500	2500	3000	2600	2650	3150	500
FE/RB 25/25/40	2500	2500	4000	2600	2650	4150	500
FE/RB 25/30/30	2500	3000	3000	2600	3150	3150	500
FE/RB 25/30/40	2500	3000	4000	2600	3150	4150	500
FE/RB 25/30/60	2500	3000	6000	2600	3150	6150	500
FE/RB 30/30/30	3000	3000	3000	3100	3150	3150	500
FE/RB 30/30/40	3000	3000	4000	3100	3150	4150	500
FE/RB 30/30/60	3000	3000	6000	3100	3150	6150	500

Flameless Gas Fired Catalytic Infrared Drying Ovens



Model 27/27/33, 2700mm wide x 2700mm high x 3300mm deep with double doors at both ends.

The Fercell range of Flameless Gas fired Catalytic Drying Ovens are suitable for the curing of heat sensitive lacquers, powder coating, paint and water based coatings. The Box Ovens are manufactured from formed sectional polished stainless steel panels and are supplied complete with one set of hinged double access doors to one end of the oven. (An additional set of double doors can be fitted to the other end, if required.)

The oven has flameless gas thermo-catalytic infrared heaters mounted to

each side within the oven, complete with safety grilles and are approved for use in flammable atmospheres. An air recirculation system that captures the hot air generated by the catalytic emitters and reflection from the oven walls are drawn through the top of the oven and then recirculated around the oven and over the catalytic heaters where solvent vapours will be oxidised, ensuring a balanced heat throughout the oven.

The Thermo catalytic heaters provide an economical source of heat, which is completely safe even in the presence of flammable solvent

based liquids and vapours. VOCs or solvent vapours passing across the face of the heater emitters are combusted flamelessly in the same manner as the fuel. Therefore, the destruction of the solvent is advantageous as the emitters actually help to clean up the atmosphere in the oven and effectively reduce VOC emissions to the atmosphere.

As there are no flames present, the sole products of combustion are carbon dioxide and water vapour. There are also no emissions of carbon monoxide, nitrogen oxide or sulphur dioxide.

Specification							
Model	Internal Width mm	Internal Height mm	Internal Length mm	Open Width & Height of Double Doors mm	Number of Double Doors on Standard Oven	Number of Flameless Gas Fired Infrared Heaters	Heat Output Btu/hr
IR 22/22/22	2200	2200	2200	1900 x 1950 (h)	One	2 x 300mm x 900mm	36000
IR 22/27/27	2200	2750	2750	1900 x 2500 (h)	One	2 x 300mm x 1500mm	60000
IR 22/27/33	2200	2750	3300	1900 x 2500 (h)	One	2 x 300mm x 1500mm	60000
IR 22/27/44	2200	2750	4400	1900 x 2500 (h)	One	2 x 450mm x 1500mm	90000
IR 27/27/27	2750	2750	2750	2400 x 2500 (h)	One	2 x 300mm x 1500mm	60000
IR 27/27/33	2750	2750	3300	2400 x 2500 (h)	One	2 x 300mm x 1500mm	60000
IR 27/27/44	2750	2750	4400	2400 x 2500 (h)	One	2 x 450mm x 1500mm	90000
IR 27/33/33	2750	3300	3300	2400 x 2750 (h)	One	2 x 450mm x 1500mm	90000
IR 27/33/44	2750	3300	4400	2400 x 2750 (h)	One	2 x 450mm x 1800mm	108000
IR 33/27/33	3300	2750	3300	2400 x 2500 (h)	One	2 x 450mm x 1500mm	90000
IR 33/27/44	3300	2750	4400	2400 x 2500 (h)	One	2 x 450mm x 1800mm	108000
IR 33/33/33	3300	3300	3300	2400 x 2750 (h)	One	2 x 450mm x 1500mm	90000
IR 33/33/44	3300	3300	4400	2400 x 2750 (h)	One	4 x 300mm x 1800mm	120000

An additional set of double doors can be fitted to the other end, if required.

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