

F2274 CHILLED AIR DIGITAL FLOW DISTRIBUTION PANEL



The F2274 is the latest addition to Factair's range of flow distribution cabinets. Building on the proven design of the F2110 digital flow control panel the F2274 incorporates an increased capacity air chiller, to reduce breathing air output temperature thereby helping reduce heat stress for users in high flow air fed suits.

The F2274 incorporates a microprocessor to control the alarms for the precise monitoring of breathing-air to each user. The unit is mounted on a manoeuvrable trolley, with flow distribution points easily accessible at waist height.

The input air to the panel must be dry and conform to EN12021, alternative systems are also available which also include filtration and dryers.

As standard, the flow distribution unit is fitted with a 24volt lead acid rechargeable battery, this provides 10 hours of operation and can be re-charged from either a 110volt or 240volt supply. Alternatively the F2274 can be operated directly from a mains supply.

The F2274 incorporates 4 flow channels each with electronic mass flow meters. The input pressure can be adjusted by a pressure regulator. The flow from each channel is then easily adjusted with a 'fine tune' control valve and the sophisticated alarm system allows each flow channel to be pre-set with its own airflow parameters. In the event of the alarm being activated, an audible warning will sound and a red beacon will flash on top of the unit. The LED display will identify the reason why the alarm has been activated. The alarm also features a mute option to silence the audible alarm and allow verbal commands to be issued, however the beacon will continue to flash. An automatic feature resets the alarm if the airflow increases again to above the minimum level. The alarm includes the following operating parameters:-

- Airflow monitoring – the alarm will activate if the airflow falls below or rises above the preset level
- Low primary supply pressure - measured at the inlet to the unit
- Fully charged battery – the alarm will bleep every 7 seconds to indicate the battery is fully charged.
- Low battery level - when the unit measures that the battery voltage is low a warning bleep will sound every 2.5 seconds.
- Very low battery level – the alarm will sound continuously.

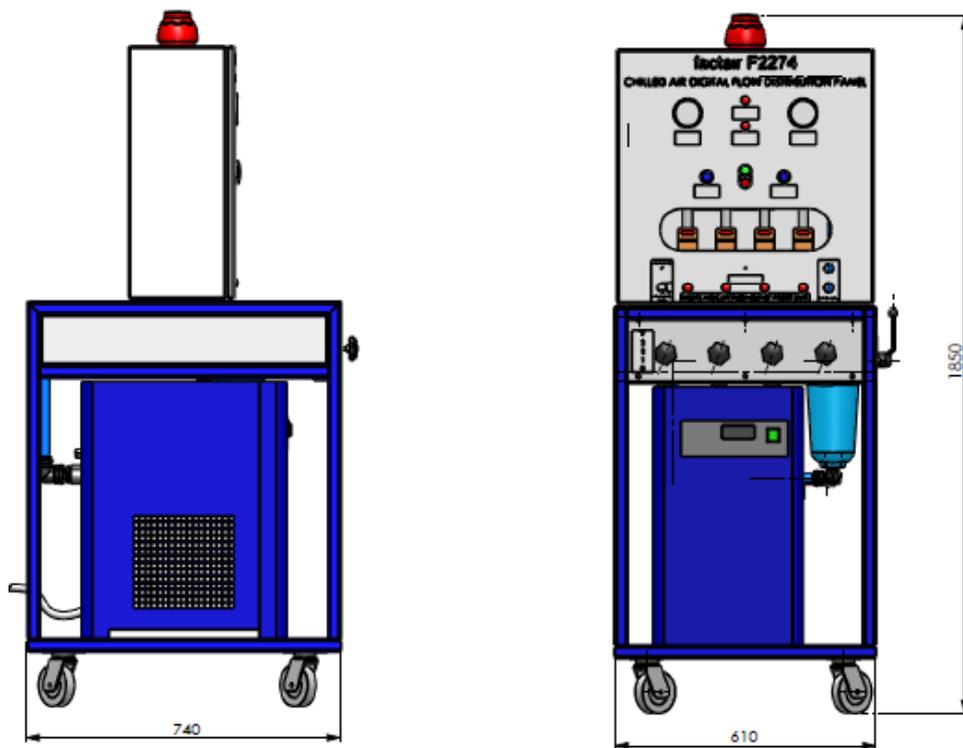
A key additional safety feature is a lockout system that prevents the unit being turned off whilst air is passing through at least one channel. The F2274 is fitted within a robust lockable cabinet to ensure only authorised personnel adjust the settings.



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The F2274 can be used with or without its proportionally adjustable chilled air feature. This option helps to reduce user discomfort when working in areas with elevated ambient temperatures. The cooling system fitted to this unit will reduce the temperature so that the outlet temperature is about 8°C. A proportional control valve allows users to adjust the flow through or bypassing the chiller unit to achieving a comfortable supply air temperature to the suit. When the air temperature is satisfactory the chiller can be turned off to save power. This facility can only be used while the unit is connected to the mains power supply but the flow control panel can run on its internal batteries if required.



F2274	Width	Height	Depth	Weight
	680 mm	1850 mm	770 mm	170 kg
Flow meter range	0-1250 LPM			
Flow per channel at maximum chilling rate	480 LPM			
Mains electrical requirements	1 phase 115 volts 50 Hz 14 Amps, Recommended supply 16 amp			
Inlet Pressure	3-10 bar			
Chiller details	Max inlet temperature 55°C Coolant R407C - charge 0.78Kg, Gas pressure 4.5 bar			
Outlet connections	4 off to suit your requirements			