JS Air Curtains Zen

Air Curtain Specification Summary

1. The Zen Air Curtain shall be of decorative, contemporary, minimalist architectural style, complete with standard front and rear, facia panels made of anodised aluminium.
2. Custom material finish options for the facia panels shall be available upon request and include options for special RAL colours, brushed stainless steel, other metals, wood, stone, etc.
3. Decorative, custom facia panels shall be available and may include clocks, lighting, customer’s logos, signage etc.
4. Central structure shall be of zinc plated steel finished in Black Forge RAL 9913 as standard. Other RAL colours must be available on request.
5. The Air Curtain as standard must have low noise, centrifugal double inlet AC fans, driven by an external rotor motor with built in thermal protection, 5 speed selections, with option of low energy EC fans for sustainability.
6. A choice of 2 different fan powers to suit different mounting heights and environments must be available.
7. The Air Curtain must be available in a choice of sizes nominally from 1.0m to 2.5m in 0.5m increments, with possibility by special order to join 2 or more units together to form a continuous array.
8. The Air Curtain dimensions shall measure 473mm high and 291mm deep.
9. The unit must be suitable for exposed mounting above a door using M8 threaded drop rods. An optional base plate must be available to order to allow vertical mounting to side of the doorway.
10. The inlet grille must be perforated with filter function. The grille shall be designed to facilitate routine servicing, such that in normal environments, the grille only requires periodic wiping or vacuuming.
11. The Air Curtain must be available with a options of water, or electric heating, or ambient unheated air only.
12. Water heated units will be available as standard with a choice of 2 coil types suitable for 80 Deg C or 60 Deg C flow. Special coils for use with “low grade” water will also be available by request.
13. Electrically heated units will be 400V 3 phase power supply, with power contactors, shielded elements with three heat settings included as standard.
14. The Air Curtain will be supplied with anodised aluminium vanes, air foil shaped for low drag, adjustable each side of vertical for airflow direction control.
15. The Air Curtain must include, as standard the Advanced Pro digital touchscreen controller, with 2.8” backlit LCD screen, capacitive touch buttons and lacquered PCB for anti-moisture & dust protection: 7m control cable with RJ11 (Plug & Play) connectors and hand held infra-red remote.
16. The controller must be automatic, with integrated ambient temperature sensor controlling to setpoint, manual override, suitable for BMS/PLC/Timer control with run indication, alarm and error indication, enable and disable by a suitable volt free contact.
17. The controller must have option to connect door sensors and to programme according to door status (open/closed) with heating boost, door delay, maximum heating, filter service maintenance, or fan stages and air run on. Digital fire alarm input. Locking tamperproof setting.
18. Water heated units must have the option of an external solenoid valve. The solenoid valve must be switched by the controller.
19. The system is to be supplied by:-

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