MICRO Save SPEED CONTROL SYSTEM operated by a B.M.S. and with local control (I.C.P.) SUPPLEMENTARY DATA

To be used in conjunction with Technical Data sheet 670578

Microsave speed control working in conjunction with a Building Management System where an individual panel IS required for control and fan status indication.

General

This MicroSave speed control system which is controlled by a Building Management System and a hand operated panel (known as the Interface Control Panel or I.C.P.), is suitable for use with most NuAire fans including DuctMaster Axials, Terminator roof extract, Mixed Flow Airmovers, Single Cabinet fans, Filtered Input units and System 2000 Destratification system.Full details can be found in the MicroSave Speed Controls Applications Guide, NuAire Leaflet No. 670581.

WITH LOCAL (I.C.P). CONTROL



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(57.7) Xh

CI/SfB Ref

Leaflet 670678 230V 1ph 50Hz 400V 3ph 50Hz JANUARY 2001

Coding

Two versions of the control are available one is 5 speed the other is 3 speed. The last letter of the code indicates the version i.e. MSCBMSANL4-3 is a 3 speed model.

For coding insert the letters **BMSANL** in place of '**ON**' in the standard MicroSave speed control code e.g.

MSCON4-5 and MSCON4-3 become MSCBMSANL4-5 and MSCBMSANL4-3

Standard codes can be found in the MicroSave Speed Control Selection sheets which are produced for each NuAire fan model range.



This 5 or 3 position stepped MicroSave Speed

/ OFF and speed selection via an analogue volt-

Control Module. Included is a facility for the

BMS to hand over control to a locally operated

For matching this control with specific fans see

MicroSave Speed Control 'Selection Guide' for

age signal taken directly to the MicroSave

I.C.P. and be able to override the I.C.P. if

required. See the diagram below.

the NuAire fan model chosen.

Control is activated directly from a BMS for ON

Typical Specification

The MicroSave speed control system shall comprise a control module and an Interface Control Panel (ICP) the control module shall be mounted in the power supply to the fan. The ICP shall be mounted in the occupied space for local control. The exact locations to be shown on the project drawings.

The module to be a robust galvanised steel enclosure containing all the electronic and mechanical components. The control module shall include a contactor and overload which shall be set to the current rating of the fan motor.

The ICP shall be constructed in ABS plastic with six LED indicator lights programmed to give the LED indication sequence as described on page 1 of NuAire Technical Data sheet No 670578. A touch sensitive switch shall be provided on the ICP to give manual speed selection. The ICP shall be designed for surface mounting and be sized 147mm x 87mm 37mm and capable of being mounted in a plastic recessed back box so that a depth of only 9mm protrudes into the occupied space.

The method of speed control shall be by five steps (or three steps) derived from transformer tappings matched by NuAire to the fan chosen to eliminate harmonic motor noise. The transformer shall be mounted in the Control Module.

Voltage signals from the B.M.S. shall control the operation of the fan from OFF through speeds

1-5 or 1-3 and shall allow manual operation of the ICP to control fan speed during pre determined time periods selected by programming the BMS. The BMS shall be able to override the speed selected at the ICP to increase or decrease the fan speed, after which time the fan will revert to the speed previously set at the ICP.

The values of these signal voltages shall be shown on page 1 of NuAire Technical Data sheet 670578.

The B.M.S. shall be able to receive a fan fail signal from volt free contacts fitted in the MicroSave Speed Control Module. This signal is to be provided from the overloads fitted.

SUPPLEMENTARY DATA Microsave Speed Control System

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Wiring diagram 1 phase



Wiring diagram 3 phase



Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such alterations without prior notice.