

Condensate Drain
The drain should have a slope of at least 1 in 50 and must not be piped to a level above the unit drain tray. Fit a vent pipe within 500 mm of the unit (see Fig.3). Check the drain by pouring water into the drain tray and ensuring that it clears.

ELECTRICAL WIRING

The electrical supply required is:

1 phase 230 V a.c. 50 Hz with neutral and earth. The supply to have an isolation switch adjacent to the unit but not attached to the unit. Recommended external circuit breaker size is 4 amp; more if electric elements are installed (refer wiring diagram).

A 24V ac externally sourced power connection is required to control the optional electric heater elements via the solid state relay (SSR); refer wiring diagram (page 4).

Electrical work must be carried out by a qualified electrician in accordance with local supply authority regulations and the wiring diagram.

FAN CONTROL

Overview

The fan can be controlled between selectable low and high levels using either:

- 0–10V DC control voltage (ie continuously variable), **or**
- (up to) 3 contact inputs (ie stepped).

Only one control method must be connected at any one time; **not both**.

Fan run on is provided with durations suiting water sourced and electric heating systems.

Control Levels (Output Voltages)

DIP switches 1-4 of the Analog Level Controller (ALC on wiring schematics) select the low fan control voltage level. DIP switches 5 and 6 select the high fan control voltage level as a set amount above the low level.

The medium level setting is half way between the low and high setting levels.

The control voltage settings apply to both 0-10V and contact input control levels.

Refer to the wiring schematic diagram for the default settings and the available level settings.

Contact Inputs

Voltage free contact inputs can be used to operate the fan at the selected control levels.

0-10V Input

A 0–10V DC signal can be used to control the fan. The fan is stopped for input signals below 1.6V. The fan operates at the selected low level when the input signal is between 1.6 and 2.0V. As the input signal increases above 2V the fan control signal increases linearly reaching the selected high level when the input signal is 10V.

Run-On

The run on duration is selected with DIP switch 8 for either 40 seconds or 120 seconds for electric heating systems. If electric heating is fitted ensure DIP switch 8 is set on for 120 seconds run on.

The fan will run-on for the selected period when the 0-10V input falls below 1.6V and all the contact inputs are opened. If the 0-10V input signal remains below 1.6V and the contact inputs remain open the fan will stop at the end of the run-on period.

Note

Select fan control levels that avoid water carry-over problems.

ELECTRIC HEAT (Option)

Units installed with electric heat elements include both auto (90°C) and manual (120°C) high temp. safety thermostats. If the manual high temp. safety t/stat requires resetting and the auto high temp. safety t/stat does not reset, then the latter needs to be replaced.

COMMISSIONING

- Check that the thermostat is correctly wired and set at the desired temperature.
- Check that the air filter is clean.
- Check that the fan runs freely without vibration.
- Check condensate drain for free drainage.

MAINTENANCE

Weekly For First Four Weeks

- Check air filter; vacuum clean as necessary.
- Check condensate drain for free drainage.

Monthly

Check air filter; vacuum clean as necessary.

Six Monthly

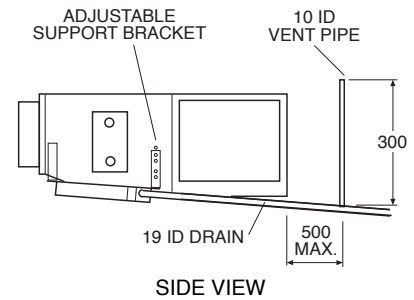
- Check condensate drain for free drainage.
- Check heat exchanger coil; vacuum or brush clean as necessary.
- Check the tightness of the fan.
- Check that fan motor is free running.
- Check tightness of electrical connections.
- Check air supply at diffuser outlets.

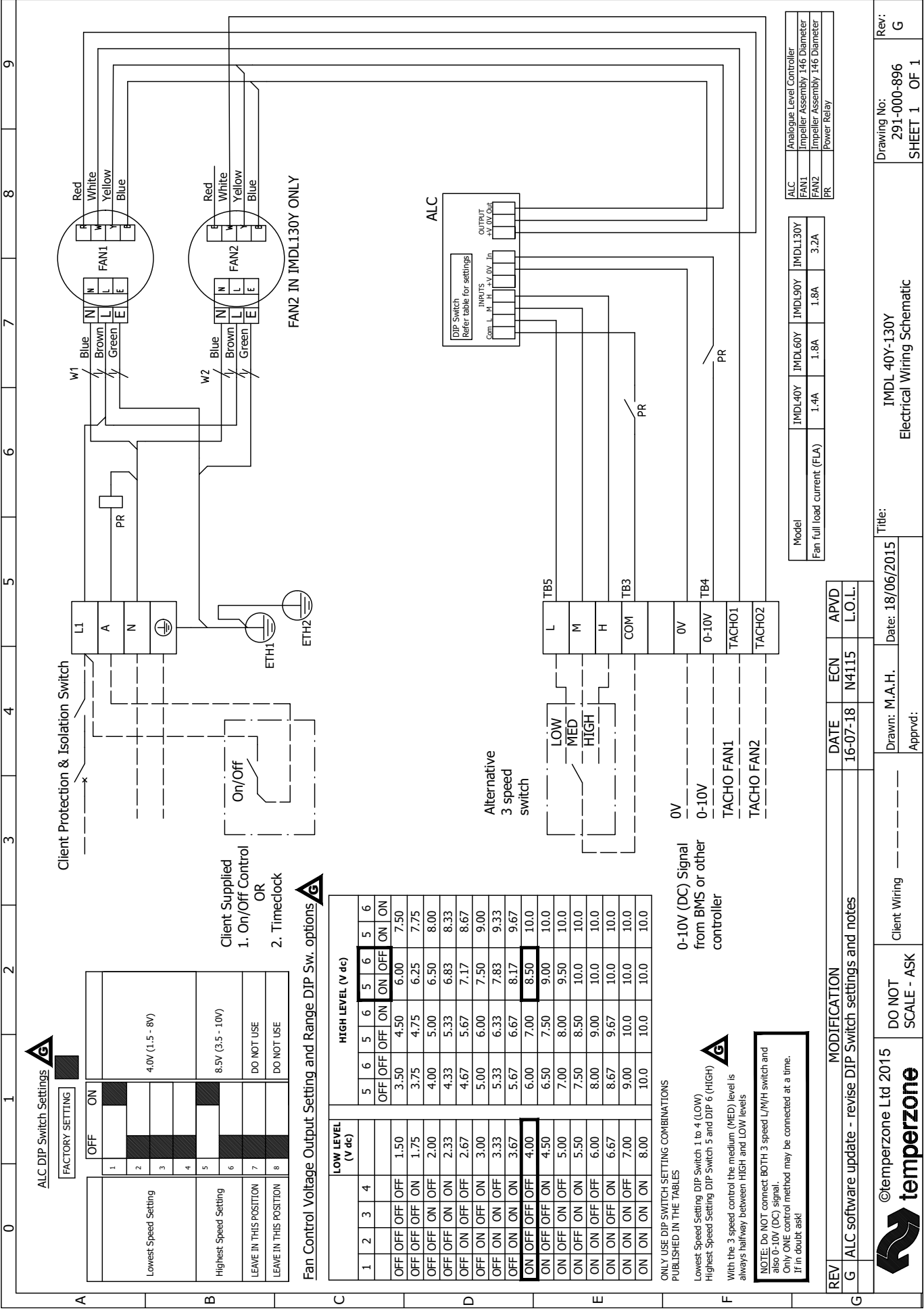
NOTE

The manufacturer reserves the right to change specifications at any time without notice or obligation. Certified dimensions available on request.

This pamphlet replaces the previous issue no. 3794 dated 02/19.
IMDL 90Y - RA spigot width.

Fig. 3 Condensate Drain





NOTE: Do NOT connect BOTH 3 speed L/W/H switch and also 0-10V (DC) signal.
Only ONE control method may be connected at a time.
If in doubt ask!



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