OPERATING INFORMATION for DRYERS EQUIPPED with
OPTIONAL ETN-01 and ETN-02 ELECTRONIC MOISTURE CONTROL

This bulletin provides supplemental information for Farm Fans dryers which
have been factory equipped with the optional "ETN" electronic moisture control
system. The ETN type MC control provides more accurate regulation and replaces
the mechanical type M.C. thermostat (part no. 27-021) as shown and described
in the Installation and Operation Manual. Please read the following informa-
tion and keep this bulletin within your manual for future parts and circuit
reference.

The "ETN" system consists essentially of a RTD type temperature averaging
sensor and a solid state low-temperature-differential controller. The sensor
is located within the grain column and extends the full length of the dryer.
Both the controller and sensor act to provide an improved system for mainta-
ing the desired final average grain moisture content.

The following illustration shows a typical view of a ETN control mounted
within a dryer ASC box. For electrical connection information of the ETN
control within the dryer control circuit, see the enclosed wiring diagram.

While the advanced ETN control may appear different, the control function and
the setting instructions for the electronic control are the same as for the
mechanical thermostat (27-021). Refer to Installation and Operation Manual for
moisture check adjustment instructions.

**MAIN ETN COMPONENTS PARTS LIST**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td></td>
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<td>ETN-01 ETN-02</td>
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<tr>
<td>--</td>
<td>ETN-01 MC Option (CF/AD 150, 190 &amp; 270)</td>
<td>X</td>
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<tr>
<td>056-1725-1</td>
<td>Temp. Control Assy., Single Point</td>
<td>1 1</td>
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<td>401-2764-5</td>
<td>Adapter Plate, MC</td>
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<td>415-2664-1</td>
<td>RTD Junction Box Assy', w/72&quot; conduit &amp; sensor</td>
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<td>415-2665-8</td>
<td>RTD Junction Box Assy', w/96&quot; conduit &amp; sensor</td>
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<td>44-067</td>
<td>Replacement Temp. Sensor (22',1000 OHM @ 70°F)</td>
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**Fig. 1** Typical dryer with ETN MC option installed.
FIG. 2 - DIAGRAM SHOWING ETN MC OPTION CONNECTIONS IN DRYER CONTROL CIRCUIT
1. Black wire on Term. 2 to R. Term. 1.
2. White wire on Term. 3 to Neutral.
3. Wire connections on R-Std Thermostat to Term. 5.
4. Wire connections on W-Std Thermostat to Term. 4.
5. Wire connections on B-Std Thermostat to Term.
6. Install shielded sensor leads from Item 5 to Terms. 8 & 9.

NOTE: Install new MC on the Deadfront Panel using existing MC opening.