

Neltec ColourQ 1700 CC

TECHNICAL SHEET

SUGAR COLOUR INDICATOR

for continuous centrifugals

The tool to:

- › optimize the centrifugals;
- › reduce sugar losses;
- › get uniform centrifugal performance;
- › detect and correct deviations – immediately.



The ColourQ 1700 CC is a colour indicator for installation on continuous centrifugals in order to indicate the colour of the crystals just before they leave the screen. If the colour is too high, too much colour is sent back in the process, while a low colour means too much sugar is being dissolved.

Within minutes the massecuite fed into the centrifugal changes its properties like viscosity, colour, and size of crystals. This in turn changes the colour of the crystals leaving the centrifugal. The ColourQ 1700 CC monitors the changes, so the operator can be alerted, when the colour drifts away from the set-point.

The compact design and easy handling allows the customer to set up the instrument without any further service and calibration from the manufacturer.

The ColourQ 1700 CC is installed on the top plate of the centrifugal, measuring through a hole in the top plate.

The result is delivered as an analogue output (4-20 mA) or over a bus and may be plotted as a graph to enable the operator to follow the changes from both his interventions and from the changes in the massecuite properties.

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The instrument has inherited the well-known characteristic from the **ColourQ 2100** that enables it to pick up both surface colour from remaining mother liquor on the surface of the crystals and the colour included inside the crystals, even at the kernel.

For the first time the operator now may get an immediate feed-back about changes in the adjustment of the centrifugal. The complex balancing between molasses flow-rate, water addition, steam addition, and spray water will be much easier to handle. This gives the operator an unprecedented opportunity to know the precise influence from each setting and learn from it.

As next step the operator may try out different combinations of settings to see the influence on the performance of the centrifugal to determine the optimal configuration of settings.



TECHNICAL SPECIFICATIONS

The ColourQ 1700 CC has two parts: A measuring unit and a control box.

MEASURING UNIT

| | |
|----------------------|--|
| Dimensions (HWL): | 84 x 84 x 150 mm (ex. shock absorbers and support) |
| Weight: | 3.9 kg |
| Light source: | LED |
| Body material: | Stainless steel (306) |
| Lenses material: | Borosilicate glass, 7.5 mm thickness |
| Protection class: | IP 66 |
| Ambient temperature: | Max. 55 °C /131°F |

CONTROL BOX

| | |
|----------------------|--|
| Dimensions (HWL): | 500 x 500 x 210 mm |
| Weight: | 22 kg |
| Body material: | Lacquered steel plate |
| Protection class: | IP 66 |
| Ambient temperature: | Max. 50 °C/122°F |
| Power supply: | 110/240 VAC, 60/50 Hz |
| Max. power: | 110 W |
| Capacity: | 1 control box may drive 4 measuring units |
| Output signals: | 4 - 20 mA analogue outputs or over a bus |
| Internet connection: | By USB or Ethernet for remote assistance. |

For more information and prices, please contact:



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