



PR : 1000020995

Rfx : 6100000936

### Technical Specification

#### Mass flow controller and Controlled Evaporation mixing unit

##### **A) Technical Specifications (Mass flow controller):**

1. Measurement technique: Coriolis type.
2. Flow range: “82.04- 4102 g/h”.
3. Fuel: n-dodecane ( $C_{10}H_{22}$ )
4. Should be able to operate with an inlet pressure of 15 bar and an outlet pressure of 10 bar.
5. Should be able to operate for temperatures up to 50 °C.
6. Accuracy: +/- 0.2%.
7. Operation voltage: 15-24 VDC, 50 Hz.
8. Latest upgraded Licensed Software should be provided to be installed on required computer specifications on Windows 10 operating platform.

##### **9. Other Requirements:**

- i. Installation manual to be provided.
- ii. Service support record: The supplier should have installed and maintained similar systems in India since last five years.
- iii. Provide the technical specification compliance table with values.

##### **10. General Description:**

- i. System should provide low flow rates at high pressure conditions.
- ii. Operative with other liquids with similar viscosity and density.

##### **B) Technical specifications (Controlled evaporation mixing) :**

1. Measurement technique: Coriolis type
2. Fluid: n-heptane ( $C_7H_{16}$ )

3. Cori flow meter range: 3-150 ml/h with accuracy  $\pm 0.2\%$
4. Mass flow controller: 200-10000 ml/h with accuracy  $\pm 0.5\%$
5. Liquid delivery system with vapour control: 3-150ml/h
5. Operating inlet pressure: 6 bar
6. Operating temperature: 300 K
7. Operation voltage: 15-24 VDC, 50 Hz.
8. Latest upgraded Licensed Software should be provided to be installed on required computer specifications on Windows 10 operating platform.

**9. Other Requirements:**

- i. Installation manual to be provided.
- ii. Service support record: The supplier should have installed and maintained similar systems in India since last five years.
- iii. Provide the technical specification compliance table with values.