

High-Boiling solvent Vapor detector head

Direct insert in High temperature

Model : GD-A2400, SD-2500/2600

ATEX Approval : Ex d IIC T3/T2

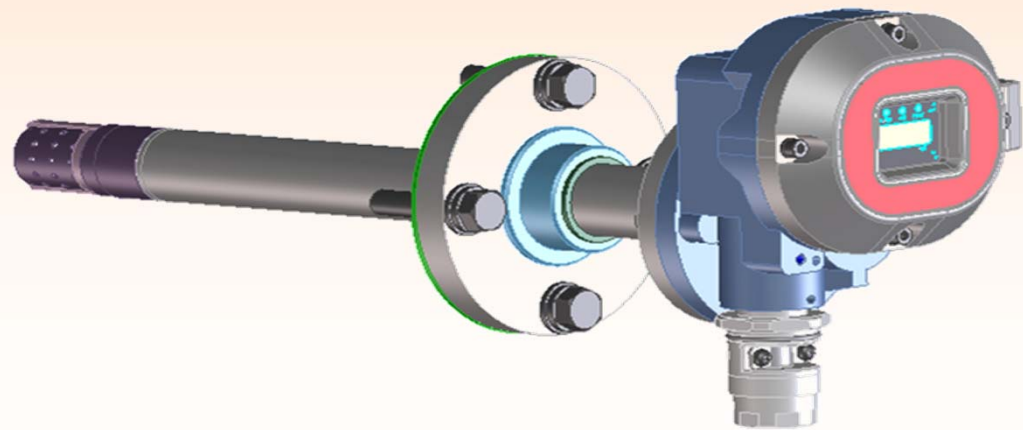
● Integrated with indicator unit/4-20mA transmitter type

Model SD-2500 : Up to +160°C (IIC T3)

Model SD-2600 : Up to +200°C (IIC T2)

● Without indicator unit (Need indicator unit)

Model GD-A2400 : Up to +160°C



Riken Keiki Co., Ltd.

<Content>

1. Feature



<Model :SD-2500/2600>

2. Application

A) Measuring inside duct

B) Production process for Lithium-ion battery

3. Specifications

4. Interchangeable with existing model



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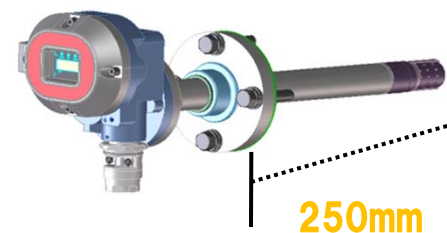
1. Feature

① Direct insert and diffusion sampling type

Detectable inside exhaust duct and furnace
No need for suction pump

② Long sensor head (250mm in length)

To measure solvent at center of exhaust duct.



③ Operation in High temperature

Operating temperature $\sim 250^{\circ}\text{C}$

④ Explosion proof (Flame-proof IIC T3/T2)

Explosion proof $\sim 160^{\circ}\text{C}$: GD-A2400/SD-2500 (T3)

$\sim 200^{\circ}\text{C}$: SD-2600 (T2)

⑤ Transmitter-type

Integrated with Indicator unit : SD-2500/2600 (4-20mA available)

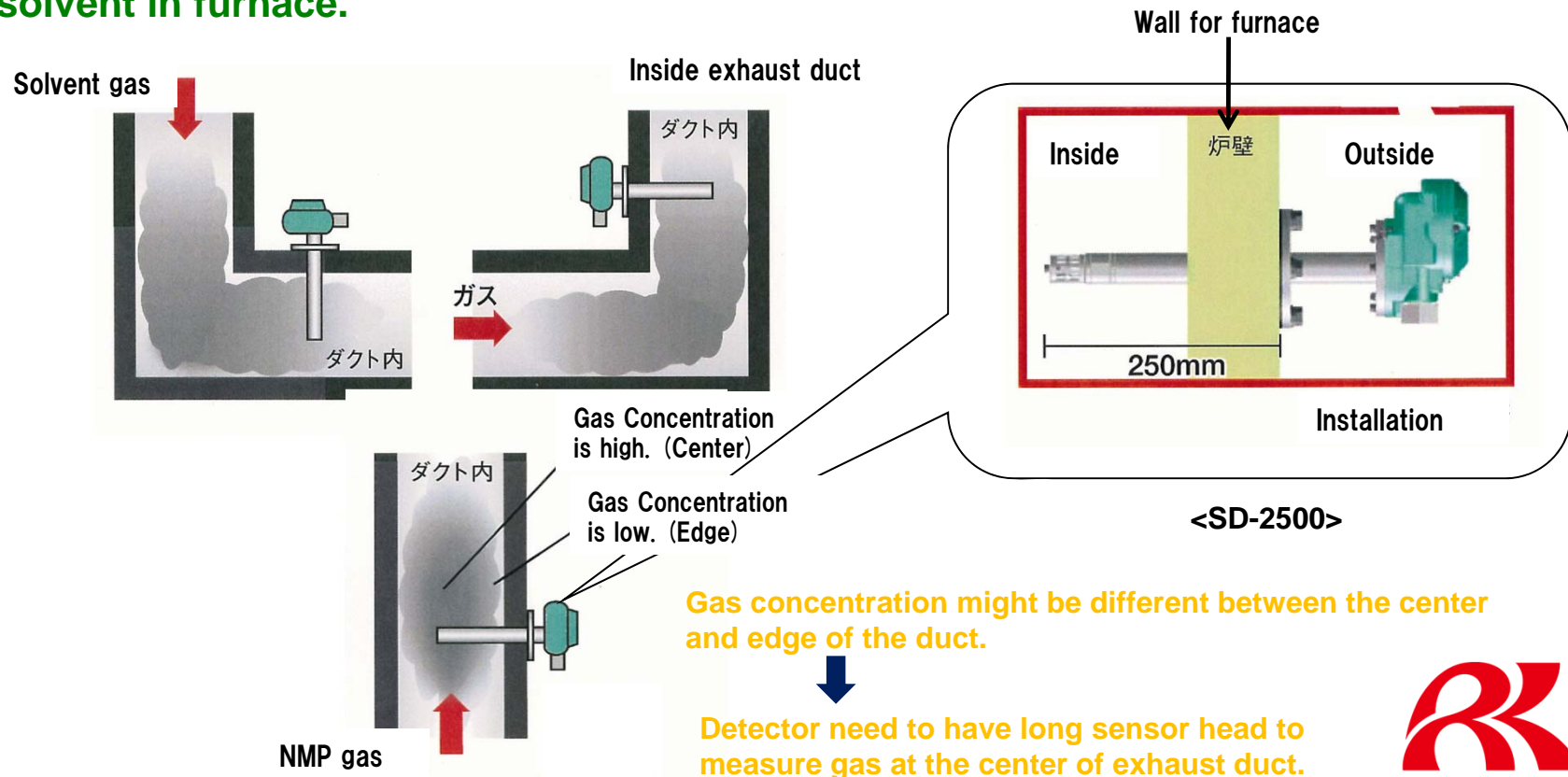
2. Application (1/3)

○Target Gas : High-boiling Solvent

○Measuring place : Inside exhaust duct at drying devices

If high-boiling solvent is cooled down, high-boiling solvent will become liquid.

“GD-A2400 & SD-2500/2600” are suitable detector head for measuring high-boiling solvent in furnace.



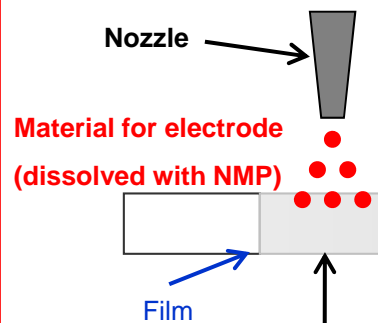
2. Application(2/3)-Process for producing Lithium-ion battery

【Production process for Lithium-ion battery】

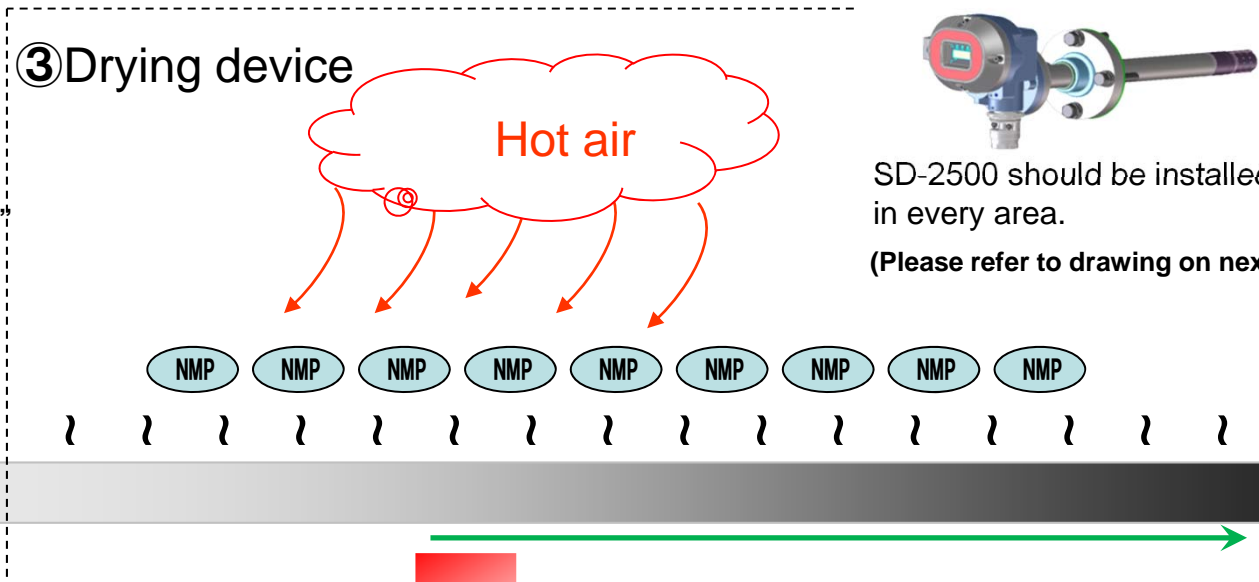
- ① Material for electrode is dissolved with NMP (N-methylpyrrolidone),
- ② applying to the film, and ③ drying. ***"NMP" is a high-boiling solvent.**

① Material for electrode is dissolved with NMP.

② This electrode, dissolved with NMP, is sprayed to "Film" from nozzle.



③ Drying device



SD-2500 should be installed in every area.

(Please refer to drawing on next page)

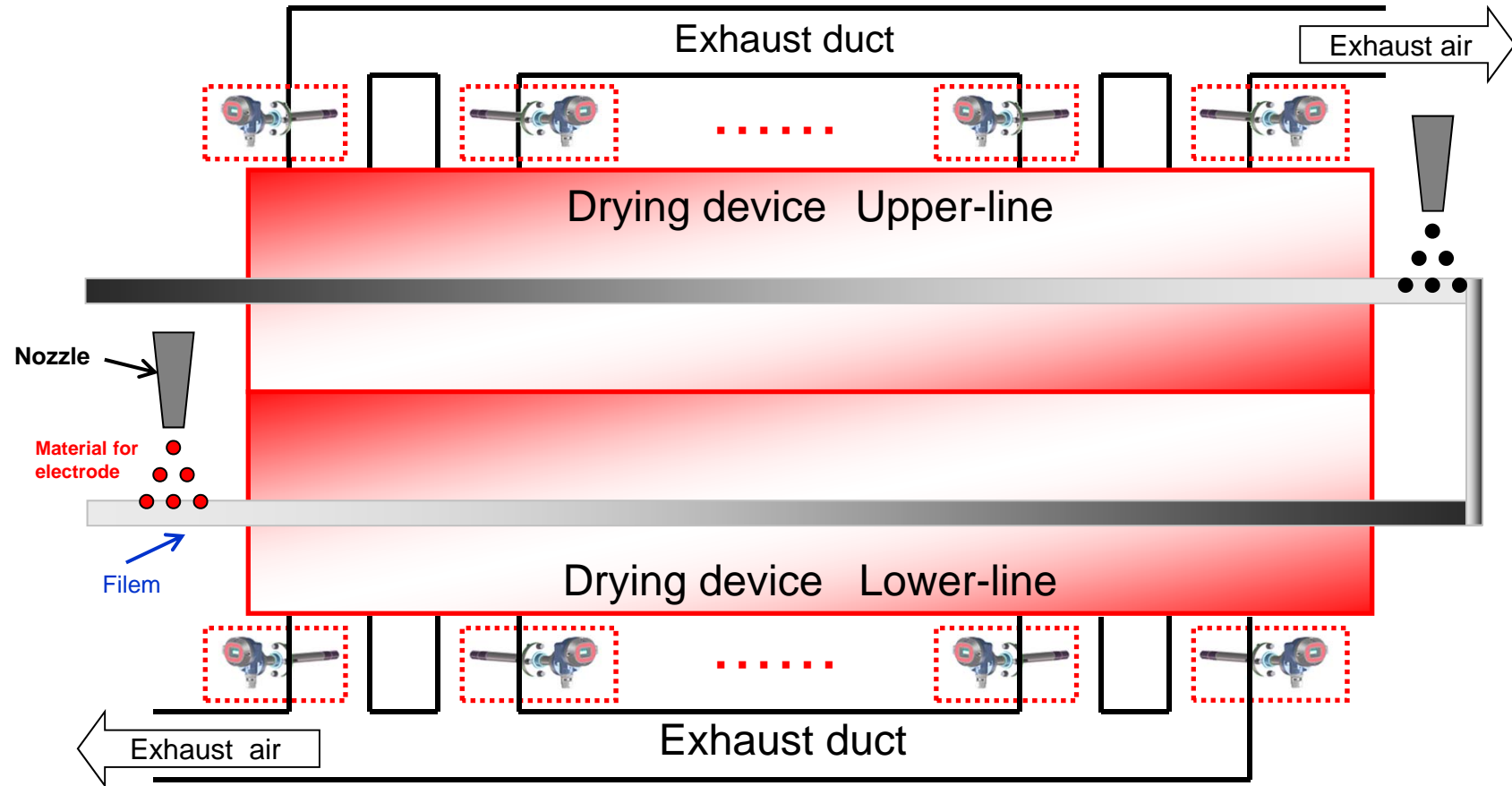
Materials for electrode are...

Positive terminal is "aluminum foil", and negative terminal is "copper foil".

Exhaust air goes to recovery unit for solvent.

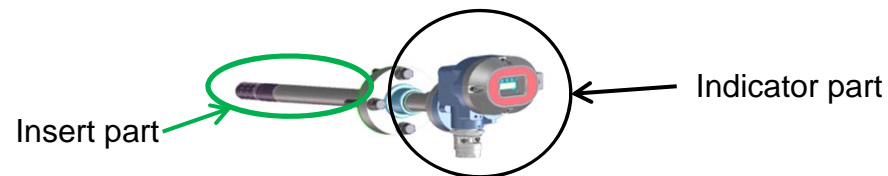
2. Application(3/3)-Process for producing Lithium-ion battery

【Installation for SD-2500】



3. Specifications

Model	SD-2600	SD-2500	GD-A2400
Detection principle	Catalytic combustion		
Target gas	Combustible gas	NMP(N-methylpyrrodidone)	
Detection method	Direct Insert		
Explosion-proof	Flame-proof Exd IICT2	Flame-proof Exd IICT3	
Operating temperature	Insert-part : 0 - +200°C Main-body : 0 - +50°C	Insert part : 0 - +160°C Main-body : 0 - +50°C	
Detection range	0-100%LEL		
Display	7segment LED (4-digit)		No (Indicator unit is necessary)
Alarm delay	Within 30sec (When exposed to gas concentration of 1.6times alarm level)		
Output	Gas concentration 4-20mA		Direct output to Indicator unit
Alarm contacts	Gas alarm(standard) or Trouble alarm(Option) : Normally open Contact rating : DC30V 0.5A, or AC250V 0.5A (Resist rating)		From Indicator unit
Cable	CVVS 1.25sq 3-core (Power supply + 4-20mA)		CVVS 1.25sq 4-core
Power source	DC24V ± 10% , Consumption power :Approx.3W(Max)		From Indicator unit
Dimension / Weight	Insert part : 34 X 250, Main body : 148(W) X 161(H) X 88(D) mm / Approx. 4.6Kg		
Standard accessories	Control Key, Control lever		Control lever



4 . Connecting Diagram

