Development of a [circulation system] for combustion exhaust gas

The Exhaust heat that was previously released from the exhaust port can now be utilized inside the furnace!!

Adopts Venturi principle

Self-exhaust heat recovery system

The air sent to the Venturi tube is heat exchanged with the sensible heat of the refractory material in the loop at the top of the furnace.

It is also possible to use the exhaust heat from the heat exchange burner.

Preheated air is used for suction of combustion exhaust das

The drawn-in combustion exhaust gas is returned to the vicinity of the melting burner and circulated.

 ★ Air flow from the blower Exhaust gas

(blows air loop duct)

This is a "self-exhaust heat recovery" system that circulates the "high-temperature combustion exhaust heat (500°C~700°C) that was previously "discharged" outside the furnace inside the furnace.

Preheating Loop Tube



Achieves improved combustion efficiency

Melting

[Keywords]

Combustion **Exhaust heat**

Circulation

Self-recovery

Reduce consumption per unit of production

Frierda saving effect

reduction

Daiki Aluminum Industry Group VISION2030 『DAIKI ∞NEXT∞』

SUSTAINABLE GOALS

