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RH
Development of High-Speed, Higt-
Degasser

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:

1.5

2 K 0.31min-1 C 15ppm

Synopsis :
Study results indicated that increasing the reaction area and circulation rate of the vacuum degassing vessel was more advantageous in securing high-speed, high-efficiency decarburization than installing a high-volume exhaust capacity which also entailed higher equipment and running costs. Kawasaki Steel, therefore, enlarged the lower Vessel of a degasser to an elliptical shape and, in line with this change, expanded the snorkel diameter by 50% over that used cylindrical vessels. An internal fog cooling technique was developed and applied in order to prevent thermal cracking of

RH環流式真空脱ガス装置による高速脱炭技術*

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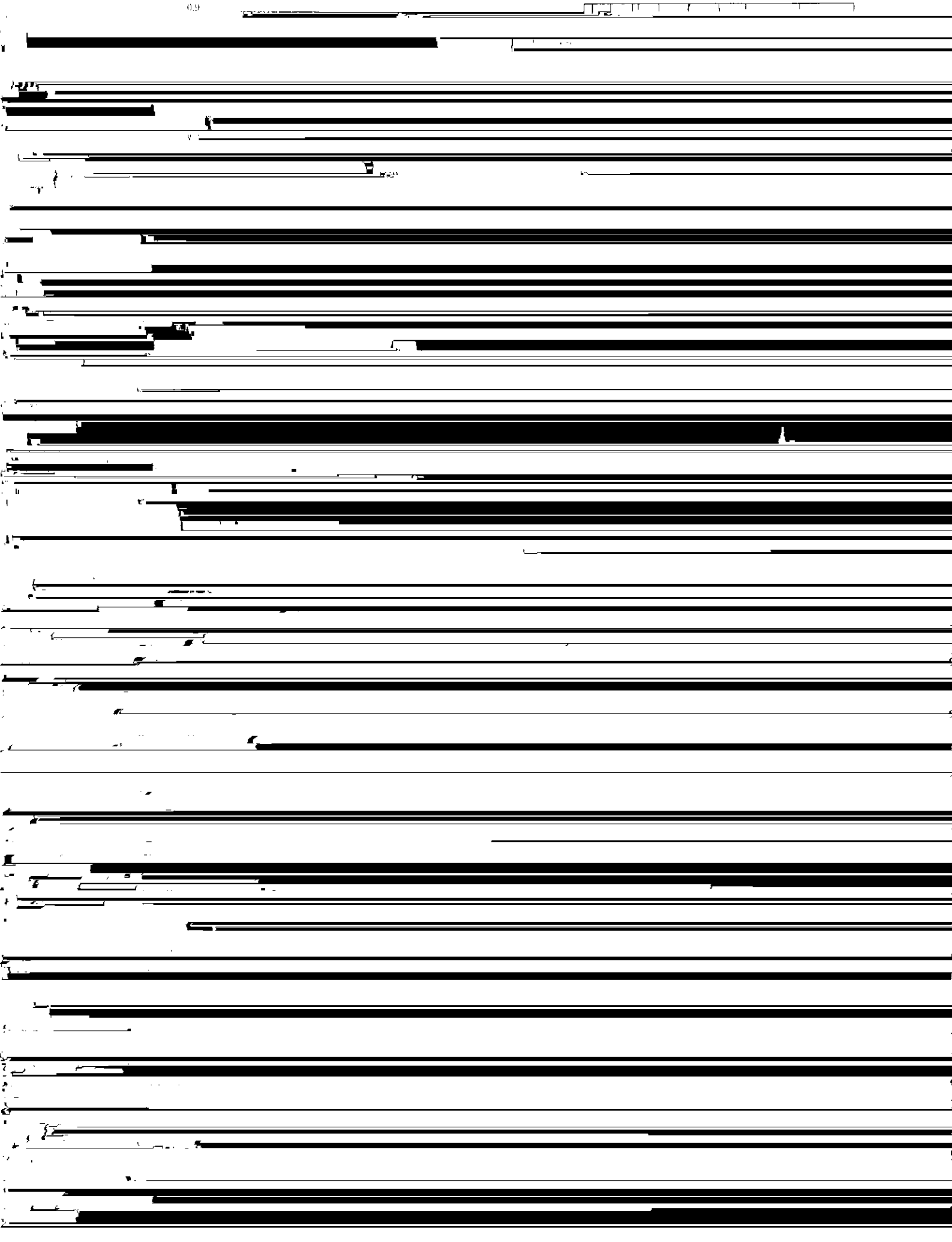
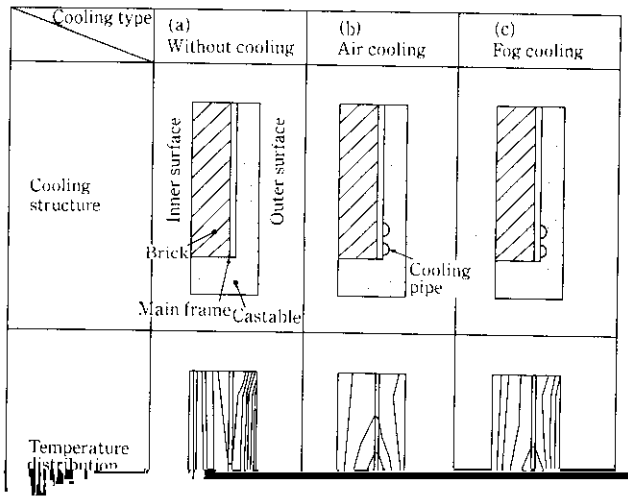
Development of High-Speed, Higt-Efficiency


0.9



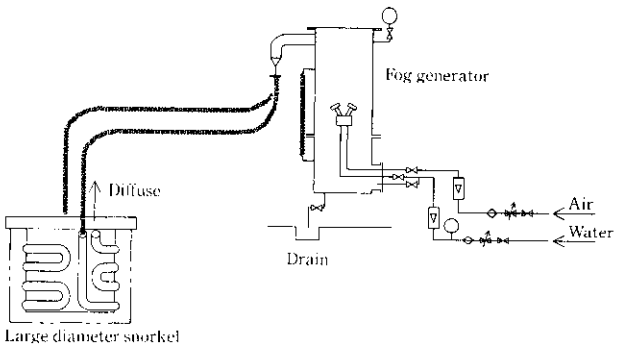
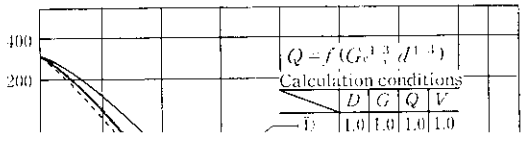


Fig. 9 Fog cooling equipment for large-diameter snorkel

以上の高真空下ではCO気泡の受ける静圧は溶鋼静圧が支配的であり，それ以上に真空度を上げてもCO発生量に差がなく効果は少ないとの説が有力であった[9]。しかし，真空度の影響を加味した脱炭



ている。

(1) 脱炭反応が酸素供給律速であるリムド処理前半に，真空槽内

Table 2 Operational results