



# Alüminyum Test Eğitim ve Araştırma Merkezi

Şubat 2017



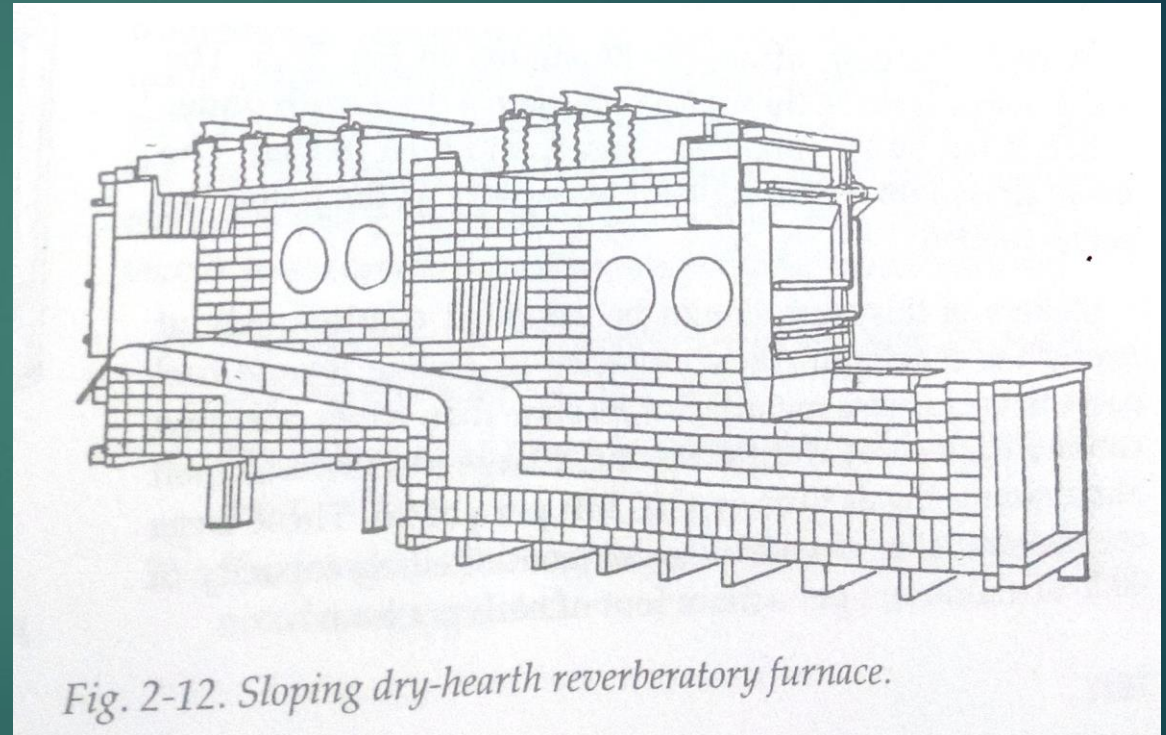
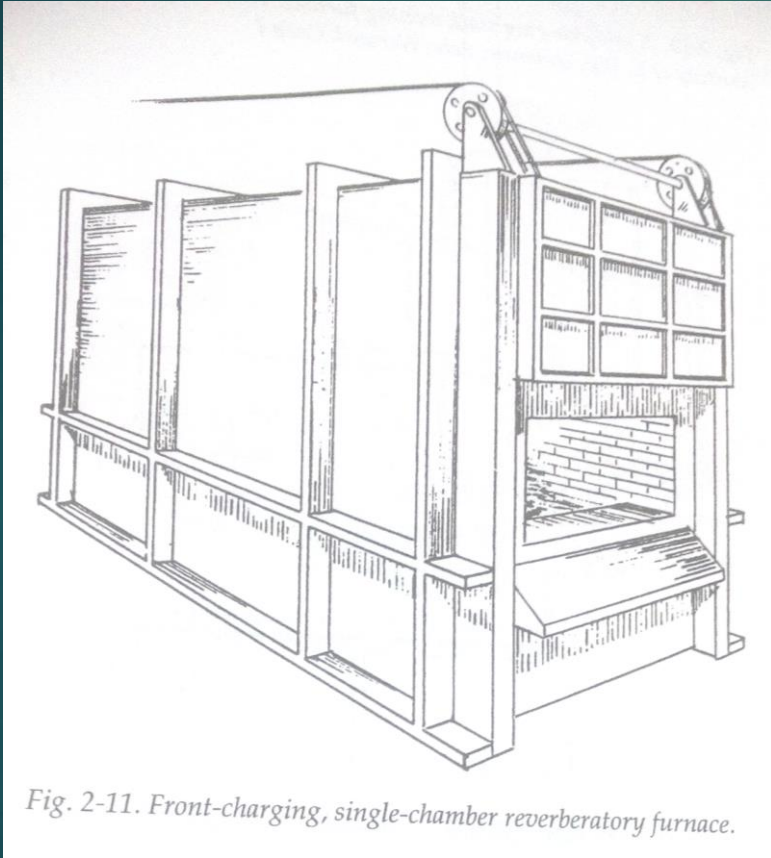
# Alüminyum Biyet Dökümü

DOÇ.DR. ERGÜN KELEŞOĞLU

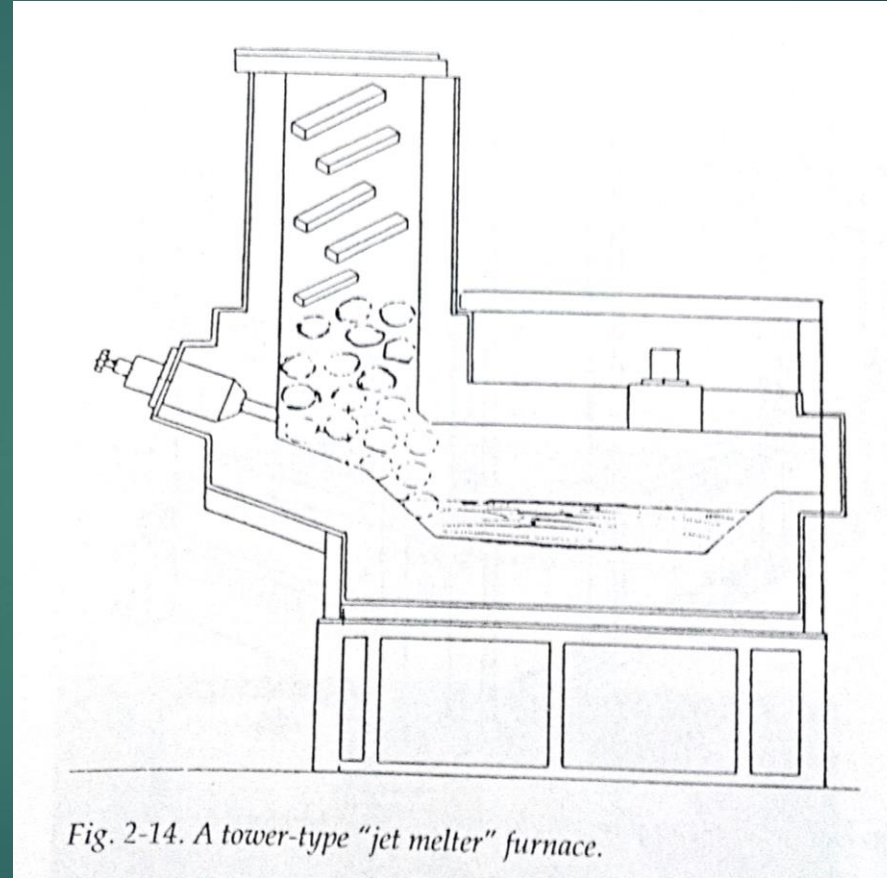
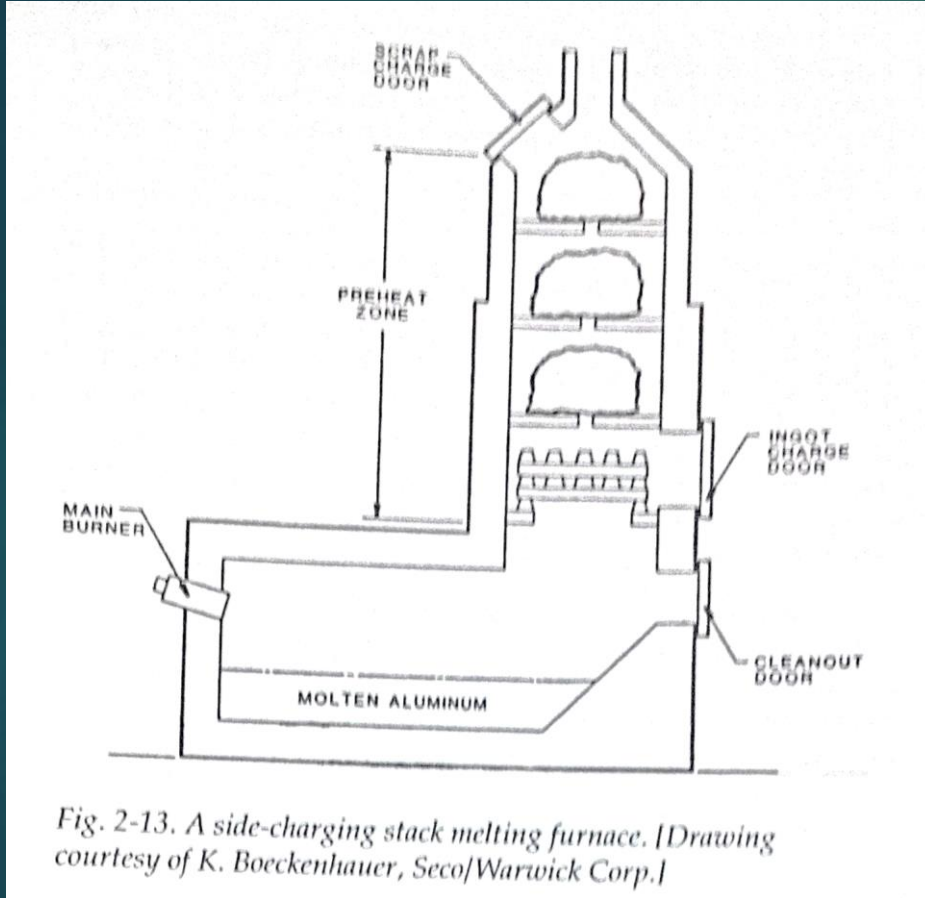
YER: FATİH SULTAN MEHMET ÜNİVERSİTESİ

09.02.2017

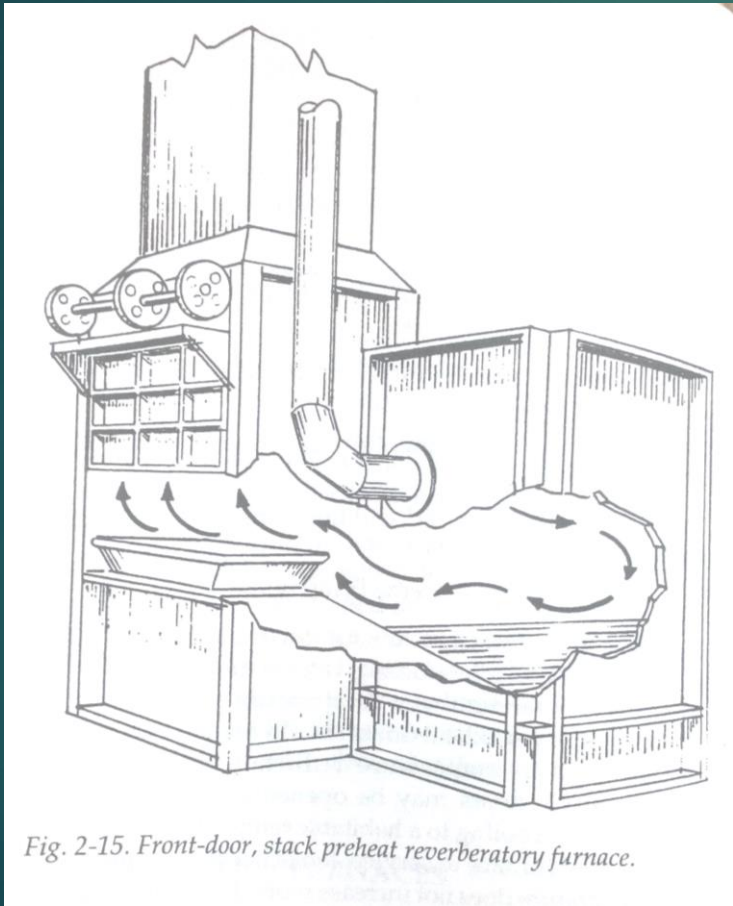
# Alüminyum Ergitme Fırınları



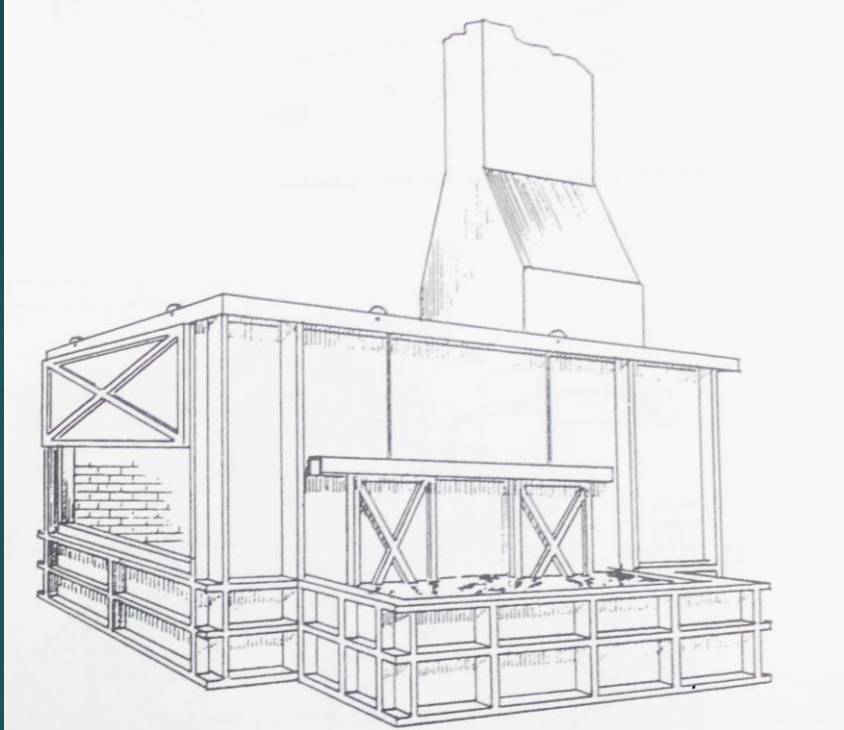
# Alüminyum Ergitme Fırınları



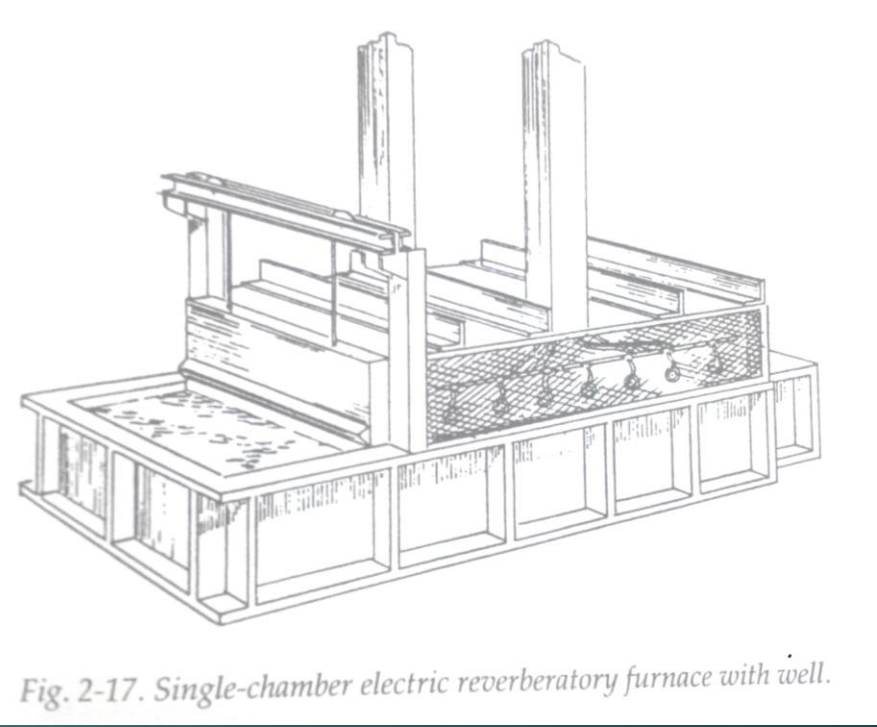
- Yüksek verim, hızlı ergitme, yüksek kapasite



# Elektrikli Reverber Fırınlar



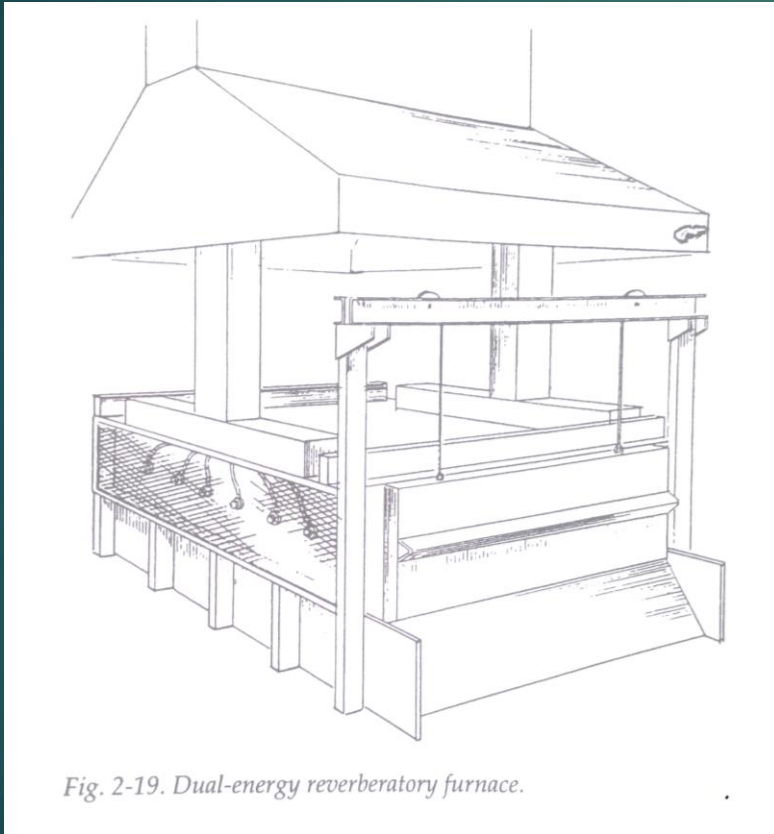
*Fig. 2-18. A single-chamber, gas-fired reverberatory furnace with well.*



*Fig. 2-17. Single-chamber electric reverberatory furnace with well.*

- ▶ Daha az metal kaybı, daha az cüruf
- ▶ Daha az gaz gaz çözme, yüksek verim.

# Hibrid Fırınlar (Elektrik ve Gaz Isıtma)



- ▶ Elektrikli fırınların avantajlarına ilaveten brülör ile ısıtma imkanı.
- ▶ Elektrik kesintilerine karşı tedbirli ve enerji fiyatlarına göre optimizasyon imkanı
- ▶ Dönüşüm süresi 2-3 saat

# Rejeneratif ve Reküperatif Yanma Sistemleri

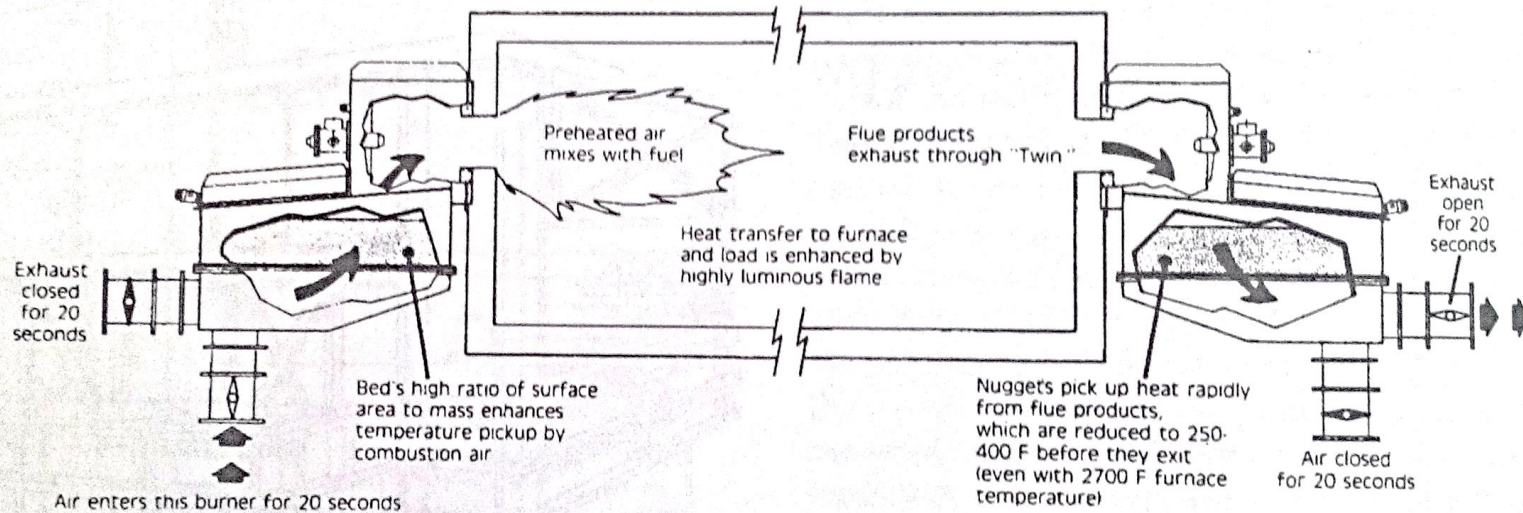
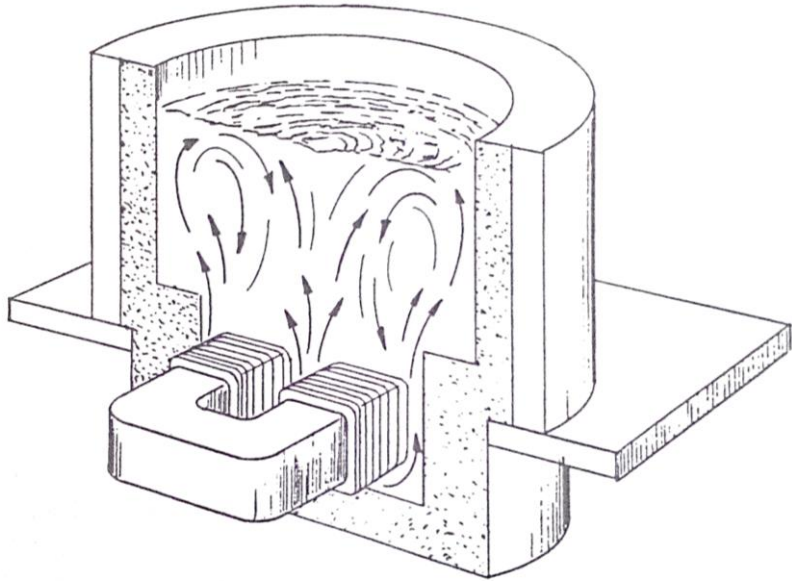


Fig. 2-20. A schematic drawing of a regenerator. During a cycle, burners operate in this configuration for 20 seconds then reverse for the next 20 seconds. The burner on the right would be firing, the one on the left exhausting. [Drawing courtesy of James Bowers, North American Manufacturing Co.]

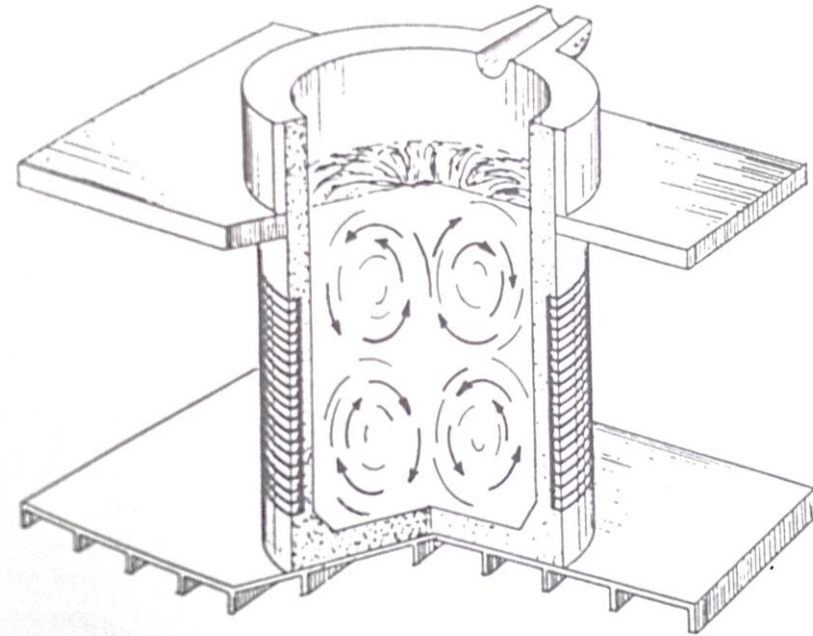
- ▶ Baca gazı ısısının yakma gazı ön ısıtması için kullanılması
- ▶ 20 s ile brülör çalışması
- ▶ 20 s hava girişi 20 s baca çıkışı



# İndüksiyon Ocakları



*Fig. 2-21. Channel induction furnace.*



*Fig. 2-22. Coreless induction furnace.*

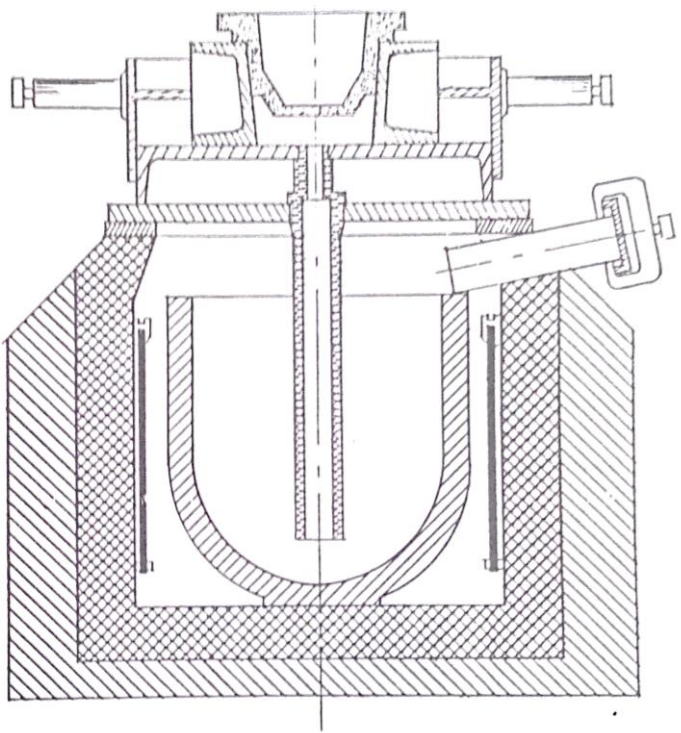


Fig. 2-24. Electrical resistance furnace for low-pressure processes.

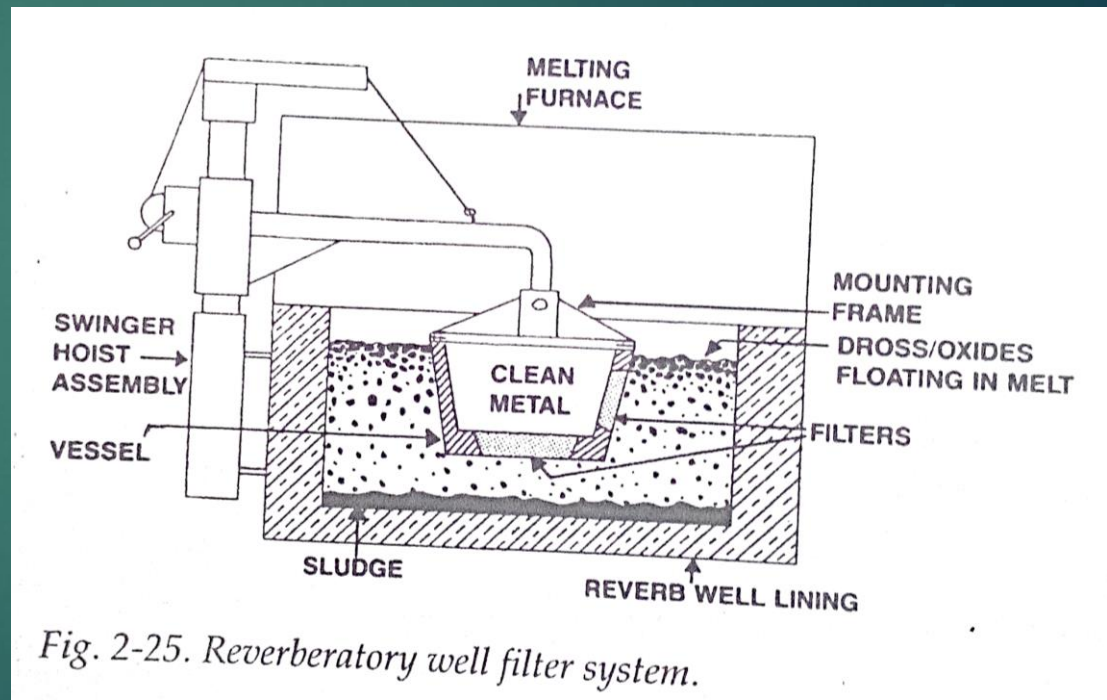
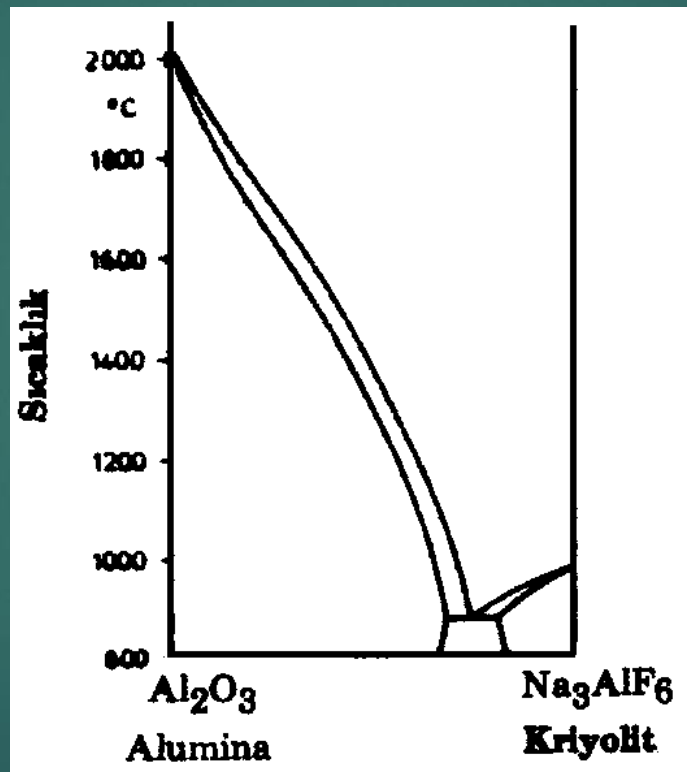


Fig. 2-25. Reverberatory well filter system.





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