

| Fuel Additive Laboratory for Heavy Oil(Top)



Boiler for testing reduction of particles in heavy oil(1.5ton)

- · Type : smoke-tube boiler
- Fuel: B C O i I
- Rated evaporation cap.: 1,500 kg / h r (MCR)
- Max. available pressure: 14 kg f / απ² (operation pressure: 2~5 kg f / απ²)
- Rated heat efficiency : 90%
- Heating surface area: 42m²
 Burner type: rotary burner(RBS 2. 5 type)
- Supply Cap. of heavy oil: 25~250 kg/ h r (Supply temp. of heavy oil: 85~ 90°C)



Boiler for testing fuel additive performance

- Spec. : small cap. smoke-tube type steam boiler
- Dimensions: 1,160 x 1,940 x 1,520 mm (WxLxH)
- Fuel Consumption: 17.3 liter/H (heavy oil), 16 liter/H (light oil)



Boiler Flue Gas Pipeline for testing reduction of particles in heavy oil(360 x 360mm) and the position to measure particle concentration(Bottom).



Flue Gas Analyzer

- Model: PG-250, PS-200 (Manufacturer: Horiba)
- Applicable Gas Type : O₂, CO₂, CO, NO, SO₂



Isokinetic Stack Sampling System

- Model : Method 5/17/23 Sampling Train
- (manufacturer : Clean Air Express)
- Application: Measurement of discharge particle concentration in exhaust gas



Viscometer

- Model: LVDV III+ (Manufacturer: Brookfield)
- Range of Measurement : 12 600,000 cps
- Application: measuring viscosity of heavy oil, dispersion of fuel additive for heavy oil and etc



| Centrifuge

- Model: MEGA-17R (Manufacturer: Hanil Science Industrial)
- RPM : max. 17,000
- Application: measuring dispersion of fuel additive for heavy oil, separating asphaltene from heavy oil and etc.



Automatic Particle Concentration Tester

- Model : DR-290 II (Manufacturer : DURAG)
- Application : Automatically measuring particle concentration in flue gas



Mixing tank for mixing the fuel additive for heavy oil