



- Year/Month : 2009/10
- Client/Owner : JNBC (Jeonnam Nano Bio-Center)
- Engineer : ILSHINAUTOCLAVE
- Location : JANGSEONG, REPUBLIC OF KOREA

### TITLE

Supercritical CO<sub>2</sub> Dry System  
- Various Extraction Production (다양한 추출 생산)

### PROCESS

|                      |                               |
|----------------------|-------------------------------|
| Extraction Condition | 500kg/cm <sup>2</sup> at 80°C |
| Total Output         | 1.6 ton/day                   |
| Production Time      | 4hr/day x 2set                |

### MAJOR APPLIANCES

|                               |                       |
|-------------------------------|-----------------------|
| Extraction                    | 400 ℓ x 2 units       |
| Max. Working Pressure         | 550kg/cm <sup>2</sup> |
| Yoke Flame Closure Type Cover |                       |

### Separator

|                 |                |
|-----------------|----------------|
| 1 <sup>st</sup> | 50 ℓ x 1 units |
| 2 <sup>st</sup> | 50 ℓ x 1 units |

|                       |                       |
|-----------------------|-----------------------|
| HP Pump               | 30 HP x 2 unit        |
| Max. Working Pressure | 770kg/cm <sup>2</sup> |
| Max Flow Rate         | 13 ℓ /min             |

|            |                            |
|------------|----------------------------|
| Pre-Heater | Double Pipe Type x 6 units |
|------------|----------------------------|

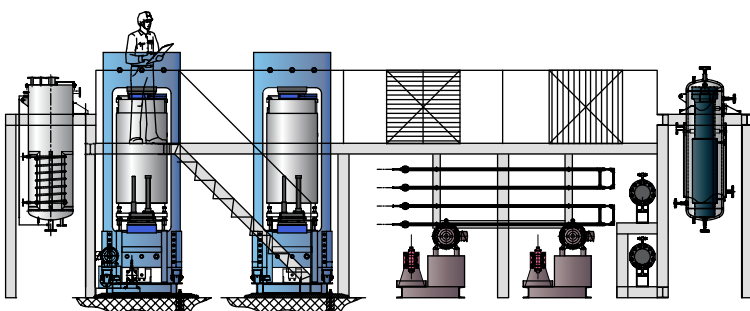
|           |                             |
|-----------|-----------------------------|
| Condenser | Shell & Tube Type x 9 units |
|-----------|-----------------------------|

|                           |                 |
|---------------------------|-----------------|
| CO <sub>2</sub> Reservoir | 300 ℓ x 1 units |
|---------------------------|-----------------|

|                             |                 |
|-----------------------------|-----------------|
| Liquid CO <sub>2</sub> Tank | 20ton x 1 units |
|-----------------------------|-----------------|

(한국가스안전공사 검사필)

### 구조도



### FEATURE

- 고체/ 액체 시료를 겸용 처리 가능한 설비
- 공정후 C.I.P 처리/ 전체 시스템의 광폭 구조
- 플랜트 설비의 전체 시스템 자동화 구현
- 고압가스 안전 규정에 의한 허가 및 전문 시공
- 한국가스안전공사 검사필