

# Flash

- Heating temperature flash: --> 71 - 85 °C
- Holding time: --> 30 sec. @ 42,6 hl/h
- PU range: --> 20 – 1.985 PU (71 - 85 °C with CO<sup>2</sup>)
- Infeed temperature: --> 2 - 20 °C
- Design volume: --> 20 – 42,6 hl/h
- CO<sub>2</sub> content: --> max. 6,0 g/l CO<sub>2</sub>
- Cl-content: --> max. < 40 ppm
- Energy recovery: --> max. 91%
- Type of buffer tank: --> 20hl, 6bar g, fully welded insulation; no platform included.
- Type of heat exchanger: --> 3 stage, plate
- Filling temperature: --> 2°C to 20 °C to the Filler
- Connection to a CO<sub>2</sub> extraction pipe is included
- No consumption metering included
- Sampling valve at the flash inlet and discharge
- Production logging included
- CIP max. 45 hl/h with 3 bar g
- controlled by Allen Bradley
  
- ASME + CRN

## **Product to be supplied:**

|  |                  |
|--|------------------|
| Supply pressure (regulated pressure)             | 4 [bar g]        |
| Temperature inlet at VarioFlash                  | 2 – 20 [°C]      |
| Temperature outlet VarioFlash                    | 2 - 20 [°C]      |
| CO <sup>2</sup> max. before VarioFlash           | (beer) 6,0 [g/l] |
| conductivity:                                    | > 20 [µs/cm]     |
| Cl-content:                                      | < 40 [ppm]       |
| Non carbonated water is going to have N2 content |                  |

## Required Utilities:

### Process water:

- Supply pressure 4 [bar g]
- Temperature min. 5 [°C]
- Temperature max. 12 [°C]
- Capacity 42,6 [hl/h]
- CO<sup>2</sup> max. 0,0 [g/l]
- Conductivity: 20 [µs/cm]

- or/and?

### DA water:

- Supply pressure 4 [bar g]
- Temperature min. 5 [°C]
- Temperature max. 12 [°C]
- Capacity 42,6 [hl/h]
- CO<sup>2</sup> max. 0,5 [g/l]
- Conductivity: > 20 [µs/cm]

## Required Utilities:

### Glycol (Propylenglykol 40 %) inlet

- Supply pressure 3,5 [bar g]
- Temperature - 3 [°C]
- Capacity min. at production 0 [m³/h] 0 kW, at Production with 20 °C
- Capacity min. at water circulation 5 [m³/h] 36 kW

### Glycol (Propylenglykol 25,0 %) outlet:

- Pressure outlet 3,0 [bar g]
- Temperature 4 [°C]

### **Steam:**

- Supply pressure 6 [bar g]
- Temperature 165 [°C]
- Capacity min. 126 [kg/h] 72 kW at 20 °C Filling temperature
-

## **Required Utilities:**

### **Condensate**

- condensate counterpressure provided by the customer max. 1 [bar g]

oilfree air:

- Supply pressure 6 - 8 [bar g]

### **CO2 gas:**

- Supply pressure 6 – 8 [bar g]