



# LT Auto Change Over Unit

for air vaporizers

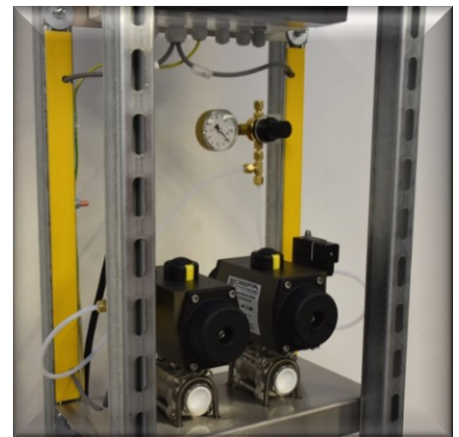
## LT Auto Change Over Unit

Automatic change over between two or more cryogenic air vaporizers to avoid icing and for regeneration without need for operator input.

### Our Solution

Economical or comfortable solution,  
with or without valves,  
gas- or liquid-side,  
designed to your choice:

- ALU-2: „the small solution“, economical automation for two vaporizers
- ALU-4: „the comfortable solution“, many functions implemented, extensive options
- Valve groups for the gas or the liquid side, (manufacturer according to your specification)
- Valves **height adjustable** to the millimeter to site requirements
- **Switch-over time** freely adjustable
- Temperature switch over freely adjustable, Min/Min-**temperature monitoring** on choice, all vaporizers open or all vaporizers closed
- Signaling (lamp/horn) can be supplemented
- Password protected program access
- Development of customized programs and customizations for individual applications possible
- Ready-equipped and tested console including control, piping and valves for **quick and easy installation**
- **Short delivery period** about 3 weeks (depending on the choice of valve)



*Tested ex works, for the easy installation*

## Comfortable

Comfortable touch-screen operation:



Different languages: English, German, French, Spanish (others possible)

*Up-To-Date*

## Evaporator change over in different alternatives

### ALU-2 (230 V AC)

- SPS control for the automatic changeover of 2 air vaporizers; optionally 24 V DC
- Regeneration time and transition phases freely parameterizable
- Ethernet interface (socket on the front)

### ALU-4

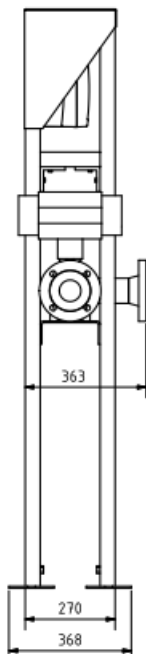
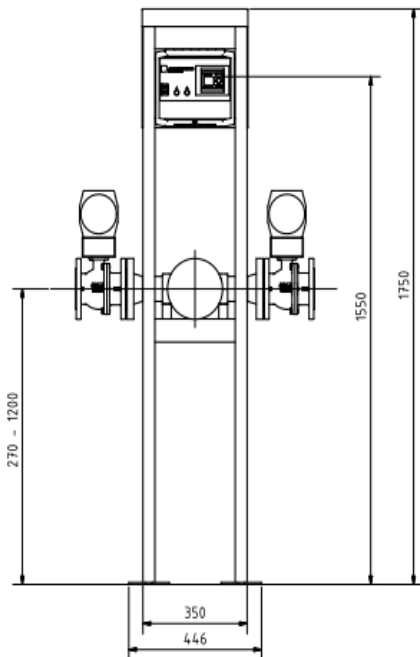
- SPS control for the automatic changeover of 2-4 air evaporators (or banks)
- Regeneration time and transition phases freely parameterizable
- Additionally 4 analog input signals, eg. tank pressure and level
- Temperature monitoring for additional evaporator control
- Integrated data logger for data recording on SD card or USB drive. These data can be evaluated with Excel
- Multilingual (DE, EN, FR, ES)
- Interfaces: Web server, FTP host, Modbus / TCP master / slave
- Optional:
  - o Integrated tank pressure control (two-step control of additional pressure evaporator)
  - o Brittle fracture monitoring
  - o Integration in supervisory monitoring systems

### Option cryogenic valves DN25 in console:

- Two, pilot solenoid valves control self-medium-operated angle seat valves with piston drive in DN25
- Fully wired and mounted on a frame
- Valve group with millimeter precision height adjustment between 270 and 1200 mm
- Suitable for media temperatures of -196 .. + 50 ° C; Use on evaporator inlet side or evaporator outlet side

### More options (surcharges):

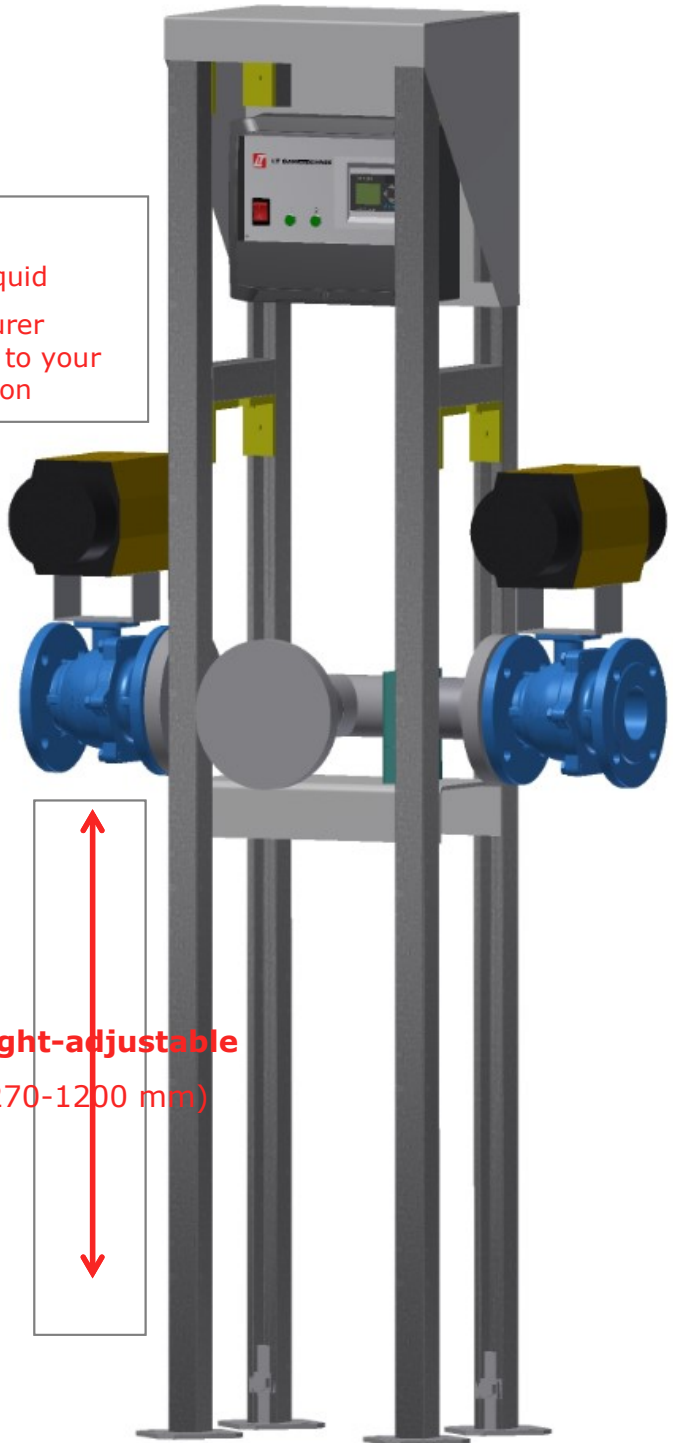
- Optional additional control elements (eg. Switches, lights etc.)
- GSM modem for SMS or mail dispatch eg. with plain text messages
- Tank level monitoring, tank pressure control
- Cryo valves DN25 in console as above, but design in stainless steel console
- Cryo Valves DN65 Stainless Steel Ball Valves in stainless steel console
- Pressure control systems on request



**Valves:**

- Gas- or liquid
- Manufacturer according to your specification

**Height-adjustable**  
(270-1200 mm)



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beyond standards

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