# Isle of Skye Distillers

Isle of Skye Distillers, R-Heating

Cooling on | Phase OK | E-stop OK | 1 | Spirit lamp | Wash lamp

ISLE OF SKYE DISTILLERS

SVAROG SISTEMI

## Pumps control — Spirit still

| LW&F pump | Spirit pump |
|---|---|
| Stopped | Start blocked |

0 of 2 running

## Pumps control — Wash still

| Hot effluent pump | Pipe LS3401 |
|---|---|
| Running | Liquid |

Hot effluent running

## Distillation — Spirit still

| Pot vapour | Before cond. | Spirit |
|---|---|---|
| 76.4 °C | 79.8 °C | 21.6 °C |

Steam open

## Distillation — Wash still

| Pot | Vapour | Spirit |
|---|---|---|
| 88.2 °C | 93.1 °C | 24.0 °C |

Steam closed

## Active alarms (1)

14:12:40 **Warning** Spirit pump empty pipe, start blocked

Open alarm list

ISLE OF SKYE DISTILLERS

SVAROG SISTEMI

Pumps control
## Spirit still

LW&F pump
Stopped
Spirit pump
Start blocked
0 of 2 running

Pumps control
## Wash still

Hot effluent pump
Running
Pipe LS3401
Liquid
Hot effluent running

Distillation
## Spirit still

Pot vapour
76.4 °C
Before cond.
79.8 °C
Spirit
21.6 °C
Steam open

Distillation
## Wash still

Pot
88.2 °C
Vapour
93.1 °C
Spirit
24.0 °C
Steam closed

### Active alarms (1)

14:12:40 Warning Spirit pump empty pipe, start blocked

Open alarm list

# Pumps control Spirit still

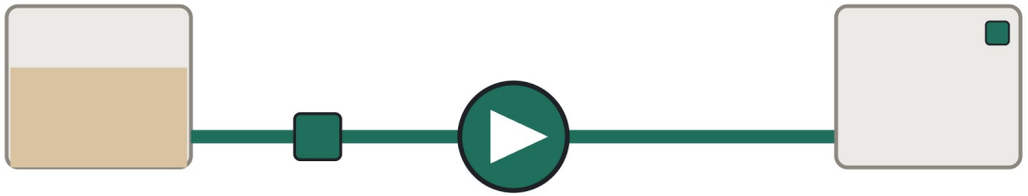
Isle of Skye Distillers, R-Heating

Cooling off | Phase OK | E-stop OK | 1 | Spirit lamp | Wash lamp

## Low wines & feints pump

PU5.01 M2501 Q1.0

Running



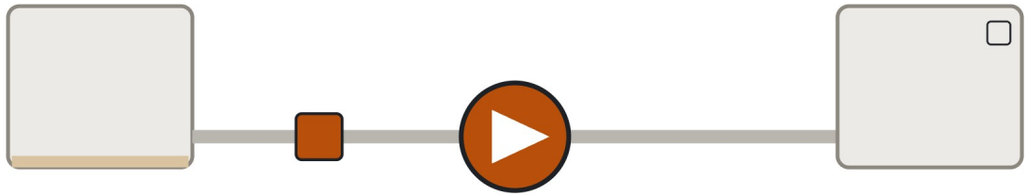
Start pump | Stop pump

| | | |
|---|---|---|
| Motor protection | I0.5 | OK |
| Contactor feedback | I0.6 | Closed |
| Pipe LS3505 | I4.3 | Liquid |
| Spirit still level LS3402 | I4.0 | Normal |

## Spirit pump

PU5.02 M2502 Q1.1

Start blocked



Start pump | Stop pump

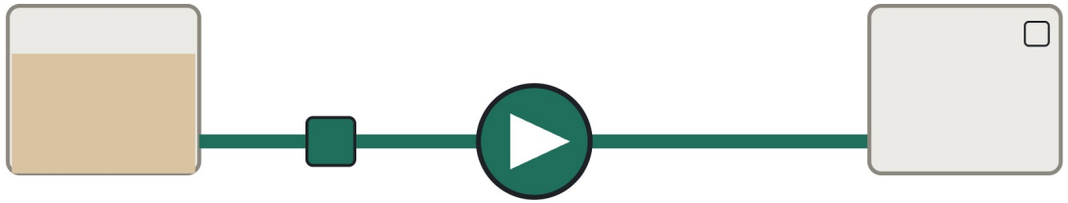
| | | |
|---|---|---|
| Motor protection | I0.7 | OK |
| Contactor feedback | I1.0 | Open |
| Pipe LS3506 | I5.0 | Empty |
| Spirit receiver level LS3502 | I4.2 | Normal |

Start blocked: empty pipe detected (LS3506). The pump can start again when this clears.

## Hot effluent pump

PU4.01 M201 Q0.7

Running



**Start pump** **Stop pump**

| | | |
|---|---|---|
| Motor protection | I0.3 | OK |
| Contactor feedback | I0.4 | Closed |
| Pipe LS3401 | I5.1 | Liquid |

## Wash still at a glance

| TT401 Pot | TT402 Vapour | TT403 Spirit |
|---|---|---|
| 88.2 °C | 93.1 °C | 24.0 °C |

Steam valve AV1.03 (Q0.4) — Steam closed

## How this pump is protected

The pump stops by itself when the pipe runs empty (LS3401). It can start again once liquid is detected.

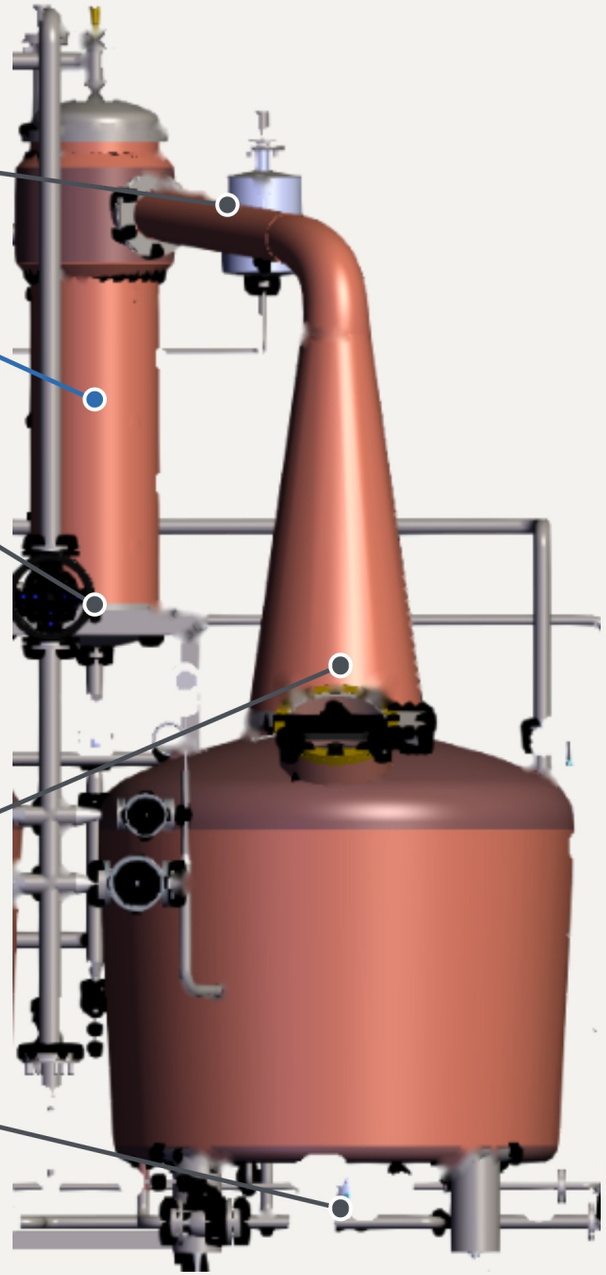
Start is also blocked during a phase sequence fault, a tripped motor protection or an E-stop.

Steam and still temperatures are controlled on the Wash still distillation screen.

# Spirit still distillation

Isle of Skye Distillers, R-Heating

Cooling on | Phase OK | E-stop OK | 1 | Spirit lamp | Wash lamp



**TT4405** Before condenser
**79.8** °C

**Cooling** On

**TT4406** Spirit
**21.6** °C

**TT4404** Pot vapour
**76.4** °C

**AV1.03 Q0.3** Steam open

## Steam valve AV1.03 (Q0.3)

Steam open

**Start distillation**

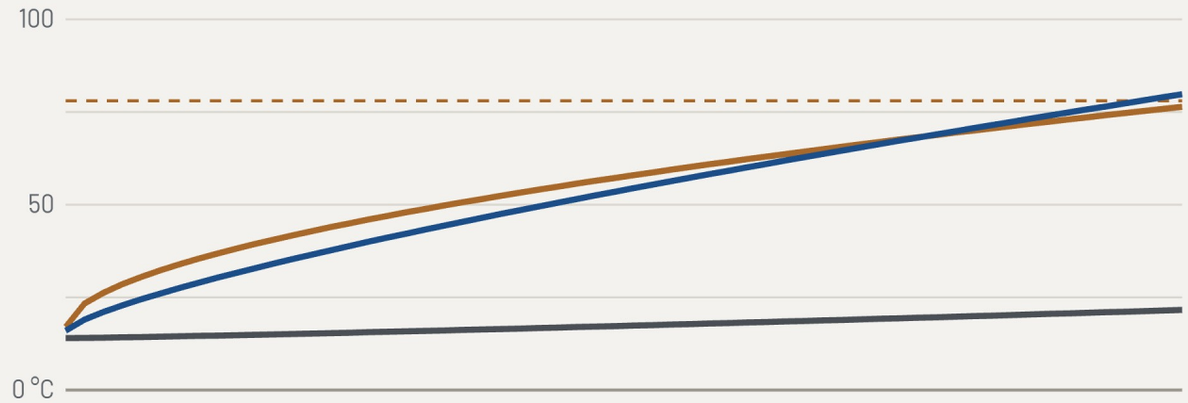
**Stop distillation**

Pot vapour alarm at – **78 °C** +

Before condenser alarm at – **82 °C** +

## Temperatures, last 30 min

TT4404 pot vapour
TT4405 before cond.
TT4406 spirit



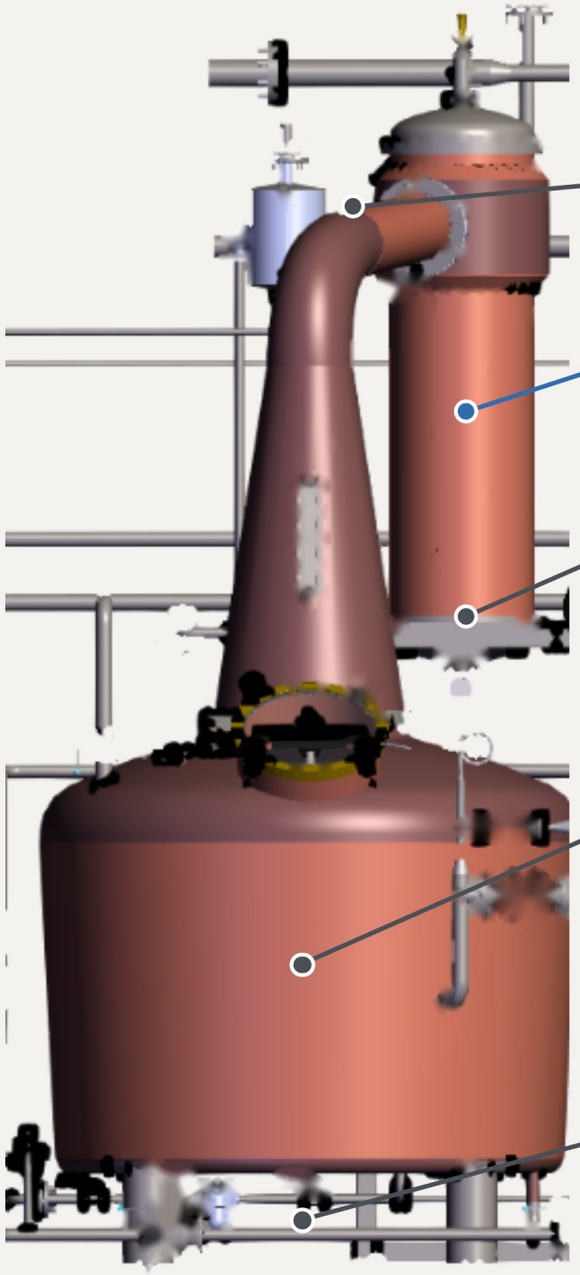

**Steam stays closed unless all are OK**

- Cooling unit OK — I0.0
- Spirit still level normal — LS3402
- Spirit receiver level normal — LS3502
- No E-stop — I0.2
- LW&F receiver level normal — LS3501
- Spirit temperature below 35 °C — TT4406

# Wash still distillation

Isle of Skye Distillers, R-Heating

Cooling on | Phase OK | E-stop OK | 1 | Spirit lamp | Wash lamp



**TT402** Before condenser
**93.1** °C

**Cooling** On

**TT403** Spirit
**24.0** °C

**TT401** Pot
**88.2** °C

**AV1.03 Q0.4** Steam open

## Steam valve AV1.03 (Q0.4)

Steam open

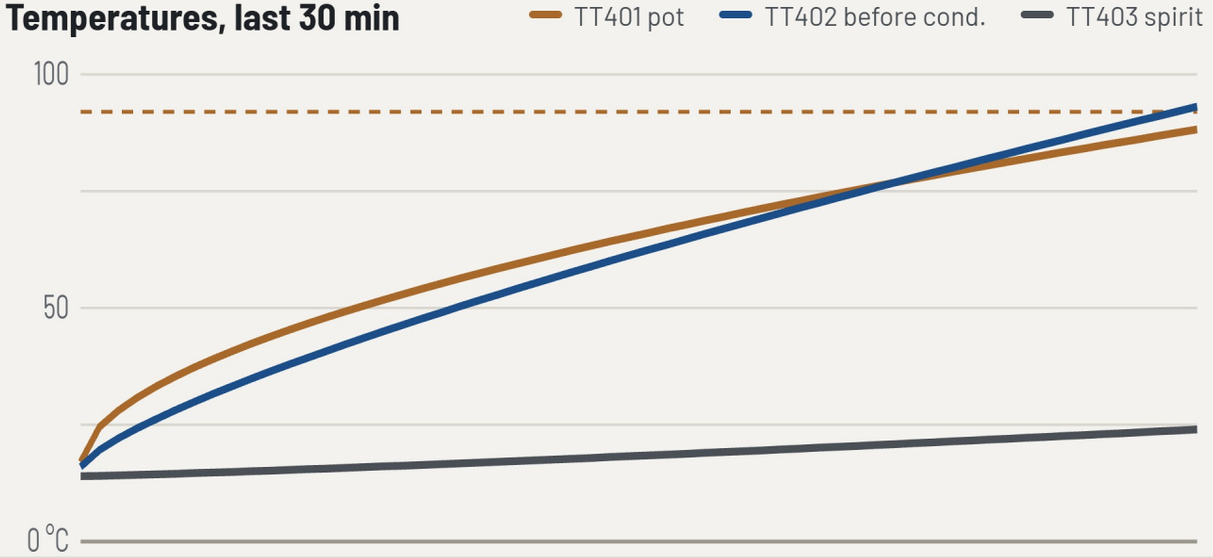
**Start distillation**

**Stop distillation**

Pot alarm at – **92 °C** +

Before condenser alarm at – **95 °C** +

### Temperatures, last 30 min




**Steam stays closed unless all are OK**

- Cooling unit OK — I0.0
- No E-stop — I0.2
- Spirit temperature below 35 °C — TT403

# Service and diagnostics

Isle of Skye Distillers, R-Heating

Cooling off | Phase OK | E-stop OK | 1 | Spirit lamp | Wash lamp

## Digital inputs -4A2

| | | |
|---|---|---|
| I0.0 | Cooling unit OK | ● |
| I0.1 | Phase sequence OK | ● |
| I0.2 | E-stop contactor on | ● |
| I0.3 | Hot effluent pump MCB | ● |
| I0.4 | Hot effluent pump feedback | ● |
| I0.5 | LW&F pump MCB | ● |
| I0.6 | LW&F pump feedback | ● |
| I0.7 | Spirit pump MCB | ● |
| I1.0 | Spirit pump feedback | ○ |

## Ex NAMUR inputs -5A3 / -5A4

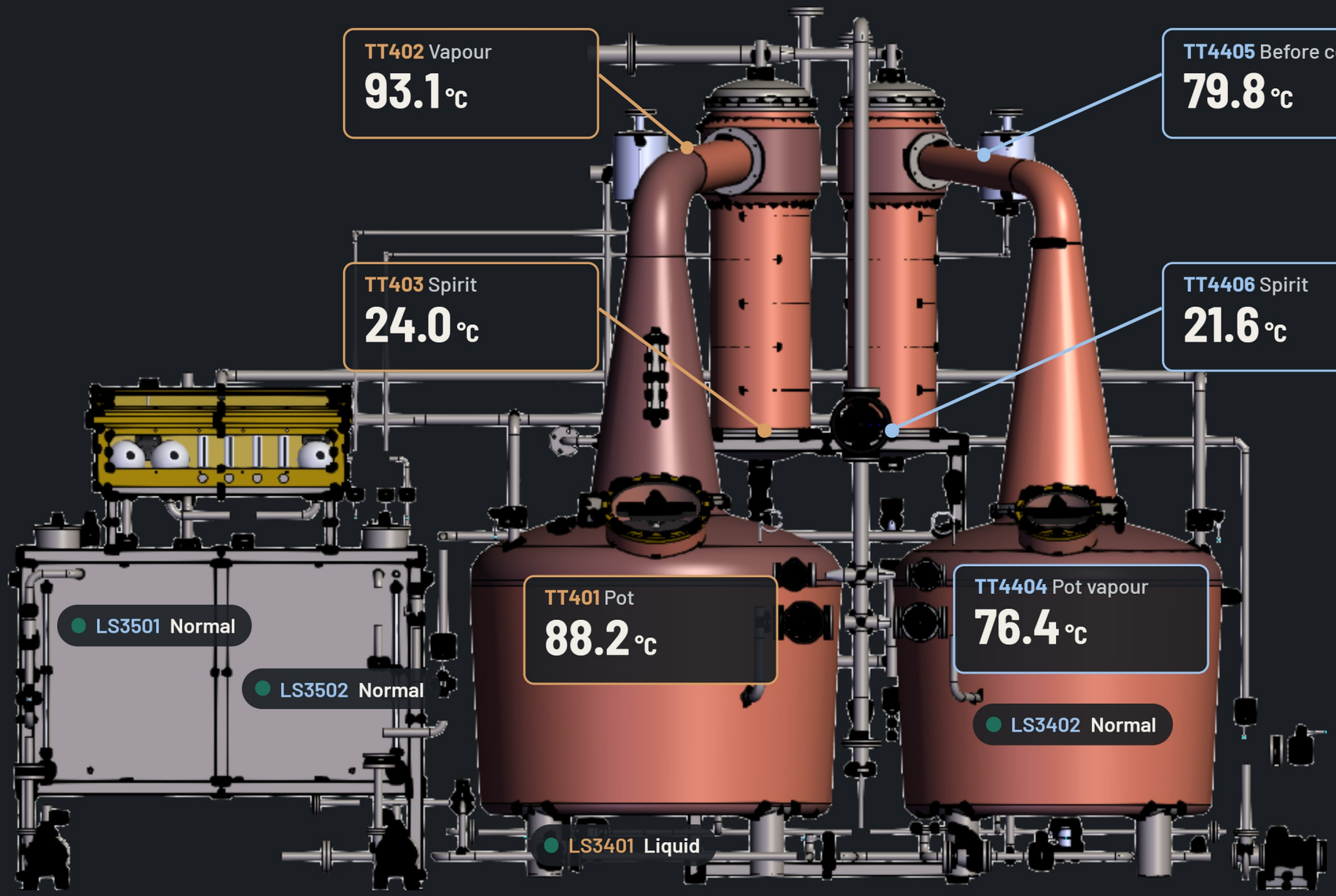
| | | |
|---|---|---|
| I4.0 | LS3402 Spirit still HIGH | ○ |
| I4.1 | LS3501 LW&F receiver HIGH | ○ |
| I4.2 | LS3502 Spirit receiver HIGH | ○ |
| I4.3 | LS3505 LW&F pump pipe | ● |
| I5.0 | LS3506 Spirit pump pipe | ○ |
| I5.1 | LS3401 Hot effluent pipe | ● |

## Digital outputs -4A3

| | | |
|---|---|---|
| Q0.0 | Spirit still lamp | ○ |
| Q0.1 | Wash still lamp | ● |
| Q0.3 | Steam valve spirit still | ○ |
| Q0.4 | Steam valve wash still | ○ |
| Q0.5 | Sound alarm | ○ |
| Q0.6 | Cooling unit on | ○ |
| Q0.7 | Hot effluent pump | ● |
| Q1.0 | LW&F pump | ● |
| Q1.1 | Spirit pump | ○ |

## Analog inputs 4–20 mA = 0–110 °C

| | | |
|---|---|---|
| PIW20 **TT4404**<br>Spirit still pot vapour | **76.4 °C**<br>raw 19203 15.11 mA |
| PIW22 **TT4405**<br>Spirit still before cond. | **79.8 °C**<br>raw 20057 15.61 mA |
| PIW24 **TT4406**<br>Spirit still spirit | **21.6 °C**<br>raw 5429 7.14 mA |
| PIW26 **TT403**<br>Wash still spirit | **24.0 °C**<br>raw 6032 7.49 mA |
| PIW28 **TT401**<br>Wash still pot | **88.2 °C**<br>raw 22169 16.83 mA |
| PIW30 **TT402**<br>Wash still vapour | **93.1 °C**<br>raw 23400 17.54 mA |




Wash still steam open

Spirit still steam open

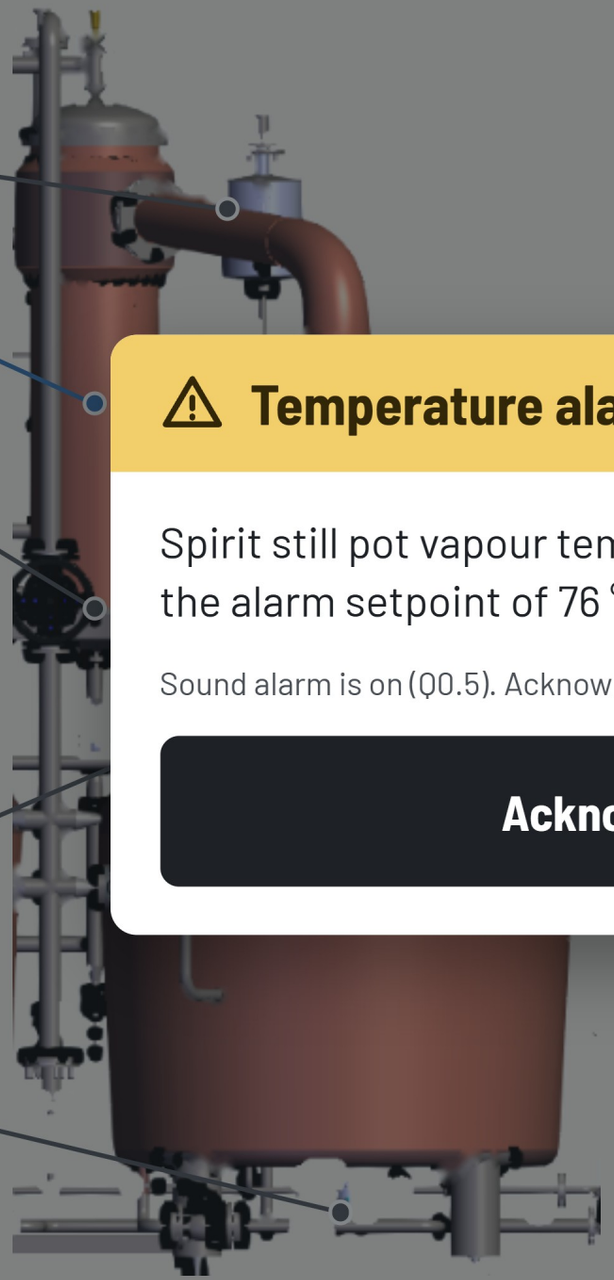
Cooling on

Touch to wake

# Spirit still distillation

Isle of Skye Distillers, R-Heating

Cooling on | Phase OK | E-stop OK | 2 | Spirit lamp | Wash lamp



**TT4405** Before condenser
**79.8** °C

**Cooling** On

**TT4406** Spirit
**21.6** °C

**TT4404** Pot vapour
**76.4** °C

**AV1.03 Q0.3** Steam open

## Steam valve AV1.03 (Q0.3)

Steam open

Start distillation | Stop distillation

Before condenser alarm — 82 °C

TT4405 before cond. | TT4406 spirit

0 °C

### Steam stays closed unless all are OK

- Cooling unit OK — I0.0
- No E-stop — I0.2
- Spirit still level normal — LS3402
- LW&F receiver level normal — LS3501
- Spirit receiver level normal — LS3502
- Spirit temperature below 35 °C — TT4406

## ⚠ Temperature alarm reached

Spirit still pot vapour temperature is 76.4 °C and has reached the alarm setpoint of 76 °C.

Sound alarm is on (Q0.5). Acknowledging silences it.

**Acknowledge and silence**

Active (2) | History

Unacknowledged alarms keep the sound alarm on

Acknowledge all

| Time | Class | Source | Message | Status |
|---|---|---|---|---|
| 14:31:07<br>02.10.2026 | Alarm | TT4404 | Spirit still pot vapour setpoint 76 °C reached | Active Ack |
| 14:12:40<br>02.10.2026 | Warning | LS3506 | Spirit pump empty pipe, start blocked | Active |