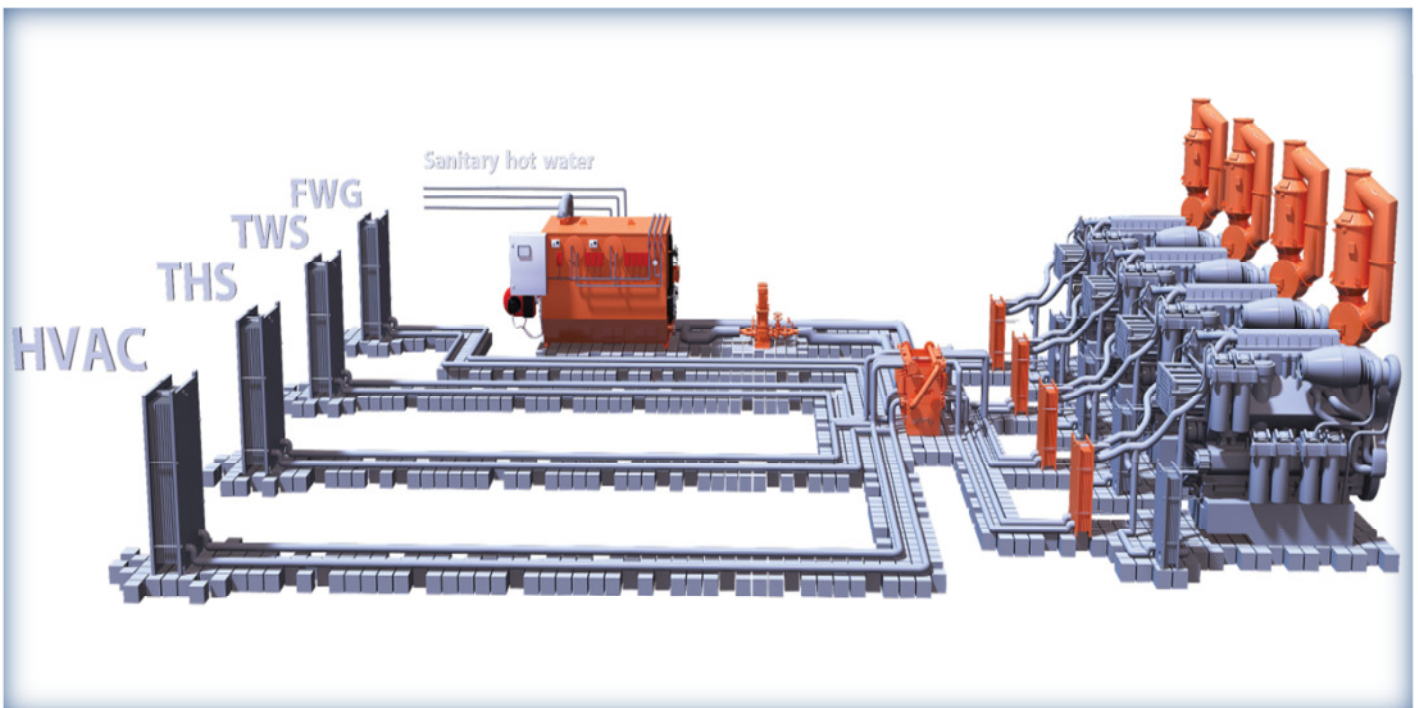




**ULMATEC**  
PYRO

## PYRO Energy Management System



# Manual Standard Product

(1 of 1)

|                    |                              |
|--------------------|------------------------------|
| Yard/Customer      | : SMALL BOAT MARKED          |
| Hull no.           | :                            |
| Customer reference | : CABIN STOVE P15,21,22 & 24 |
| Order No.          | :                            |
| Document name      | : UPY-BAA002                 |
| Revision           | : B                          |
| Author             | : TS                         |
| Date First Issue   | : 28.04.2016                 |
| Comments           | : CHANGED WIRING             |

Project Piping and Cable Diagram

1 ➡

Product Documentation

2 ➡

Operator Guidelines

3 ➡

4 ➡

5 ➡

6 ➡

7 ➡

8 ➡

9 ➡

10 ➡

11 ➡

12 ➡

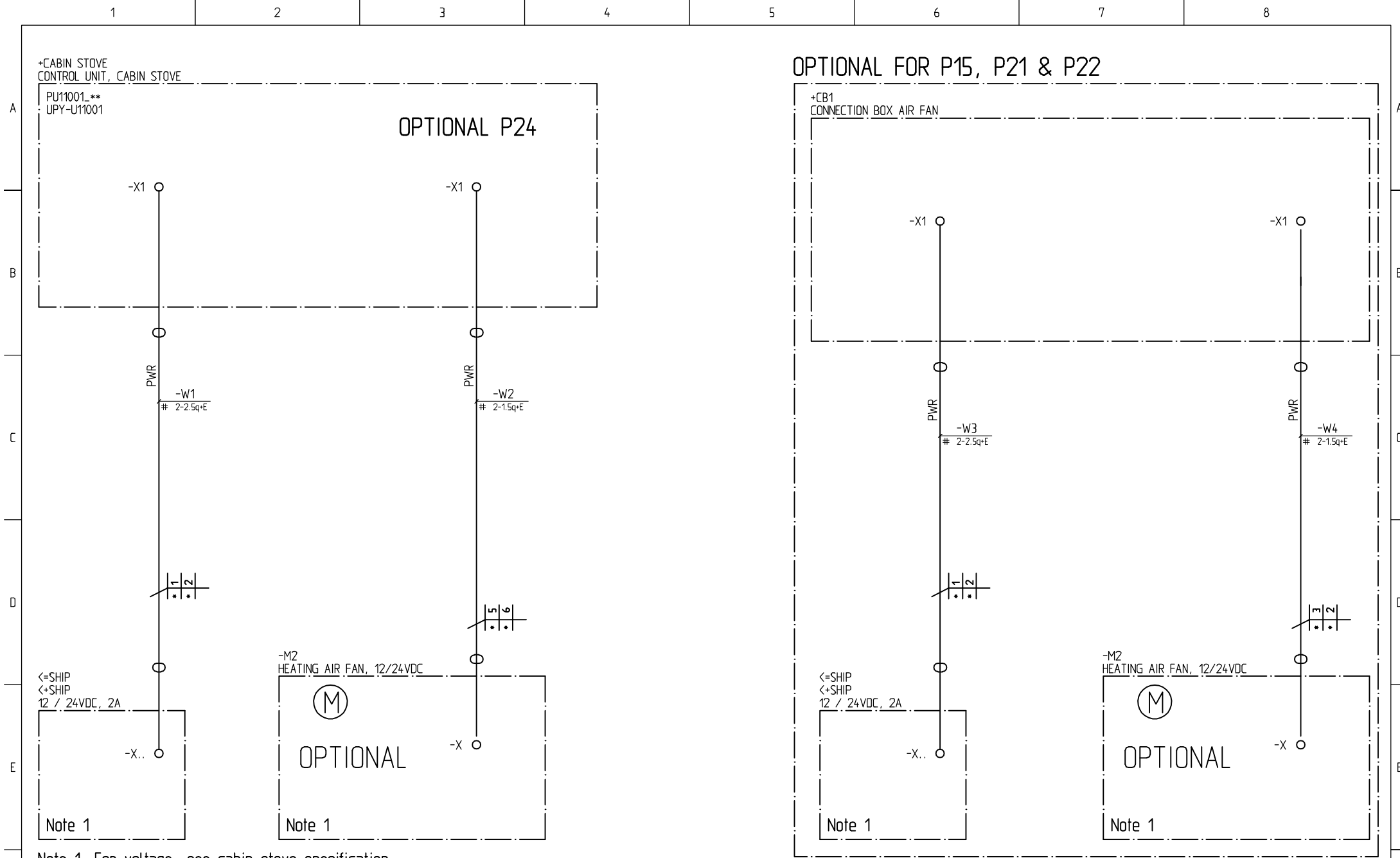
Revision history manual :

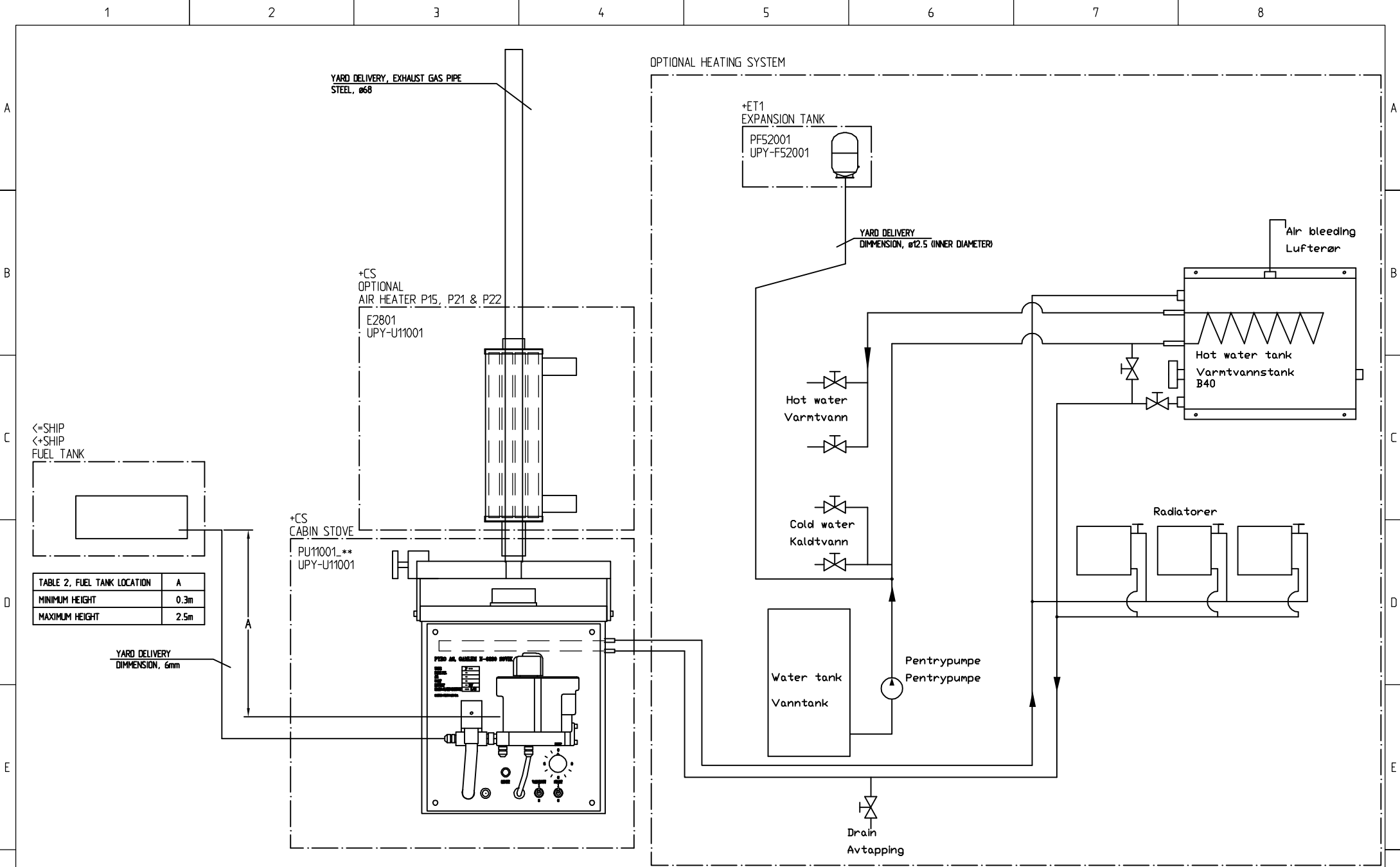
| Rev.<br>(A,B,C..) | Description    | Date<br>(dd.mm.yyyy) | Sign. |
|-------------------|----------------|----------------------|-------|
| A                 | First Issue    | 12.02.2016           | TS    |
| B                 | CHANGED WIRING | 28.04.2016           | TS    |

## Enclosed documents :

| Section | Document name                                                             |
|---------|---------------------------------------------------------------------------|
| 1       | UPY-BAA002-11OR (A).pdf                                                   |
| 1       | UPY-BAA002-11OT (A).pdf                                                   |
| 2       | UPY-F52001-01PL (B).pdf                                                   |
| 2       | UPY-U11001-01PL (A).pdf                                                   |
| 2       | UPY-U11001-01PT Cabin Stove P15,P21,P22 & P24 Technical Spesification.pdf |
| 2       | UPY-U11001-01PW (B).pdf                                                   |
| 3       | UPY-U11001-01PO Cabin Stove P15,P21,P22 & P24 Operators Guideline.pdf     |

Index divider: Section 1

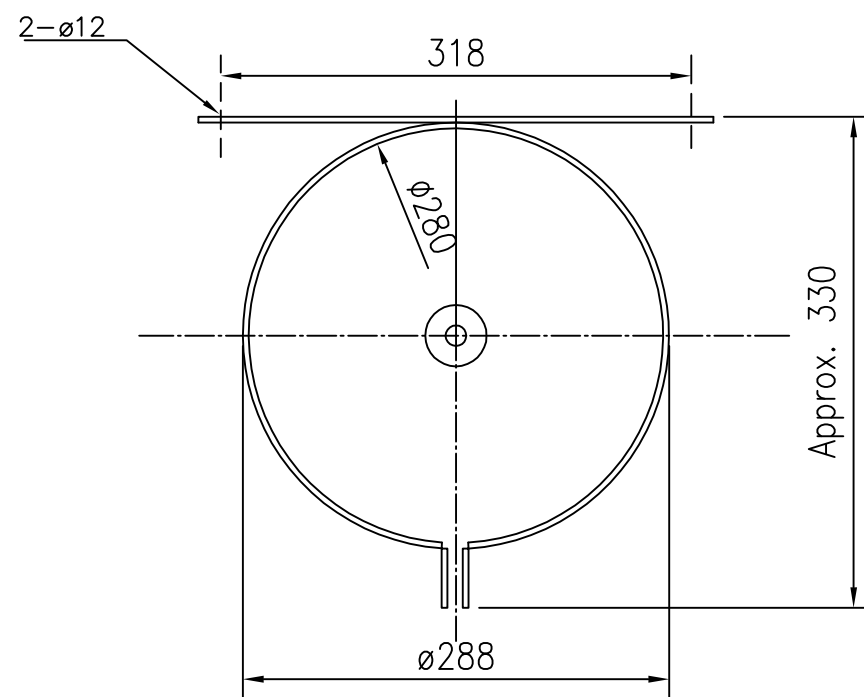
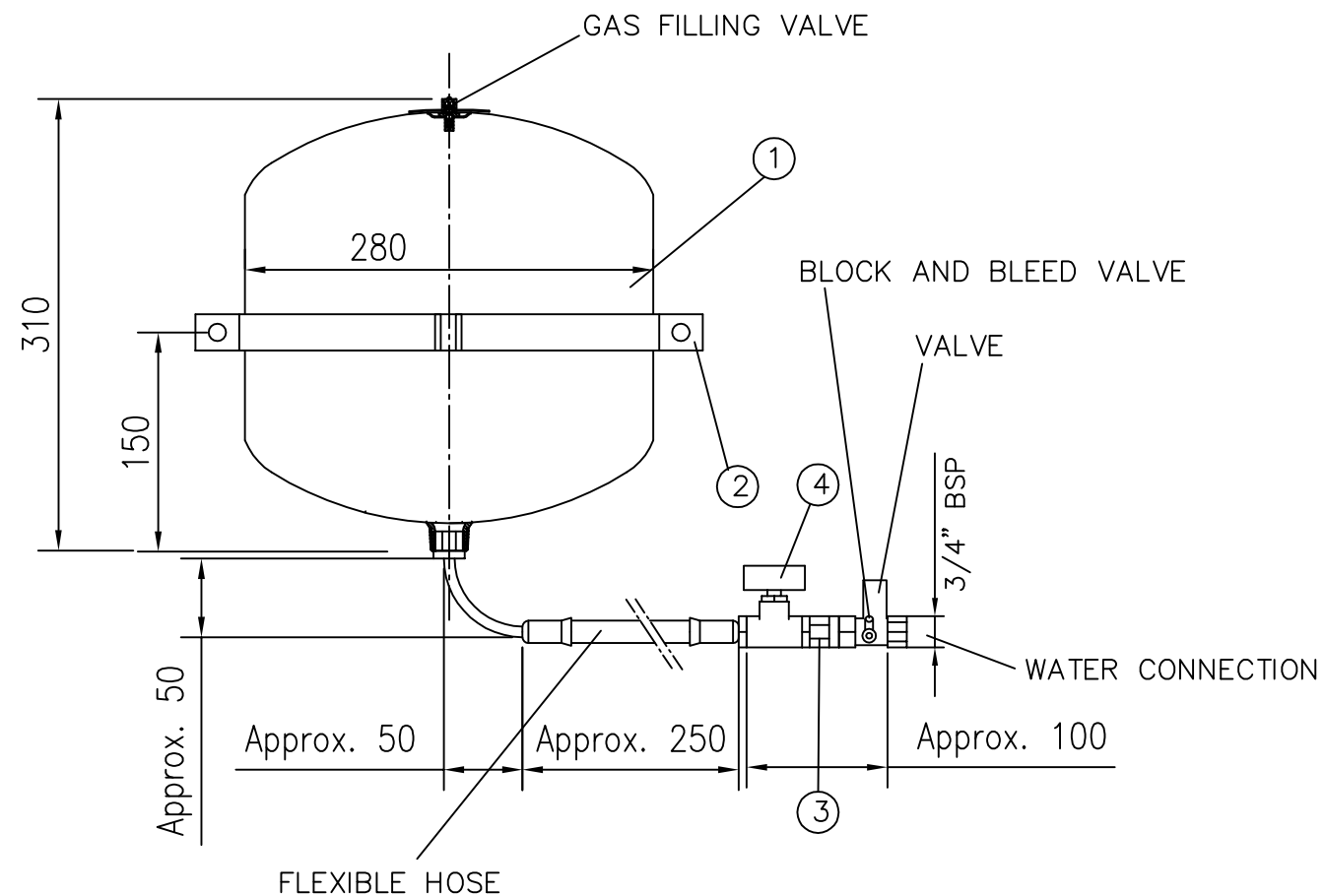




|                      |                            |                                                                                     |                 |               |                                      |                  |        |           |
|----------------------|----------------------------|-------------------------------------------------------------------------------------|-----------------|---------------|--------------------------------------|------------------|--------|-----------|
| ULMATEC ORDER NO.    |                            |  | PLANT : =HG_CS1 | LOCATION : +  | PRODUCT:                             | DOCUMENT NO.:    |        |           |
| ULMATEC ITEM NO.     | PU11001                    |                                                                                     | AUTHOR : TS     | DATE : 160201 | SMALL BOAT MARKED                    | UPY-BAA002-11OT  |        |           |
| CUSTOMER             | SMALL BOAT MARKED          | REVISION:    DATE:                      SIGN:                      DESCRIPTION:     | FORMAT : A3     | SCALE : N/A   | PAGE DESCRIPTION:                    | CADETT ELSA NO.: | PAGE:  | REVISION: |
| CUSTOMER REFERENCE   | CABIN STOVE P15,21,22 & 24 |                                                                                     |                 |               | ORDER, PIPING DIAGRAM<br>CABIN STOVE | PBAA002          | 1 OF 2 | A         |
| CUSTOMER PROJECT NO. |                            |                                                                                     |                 |               |                                      |                  |        |           |

Index divider: Section 2 1

## SANITARY WATER



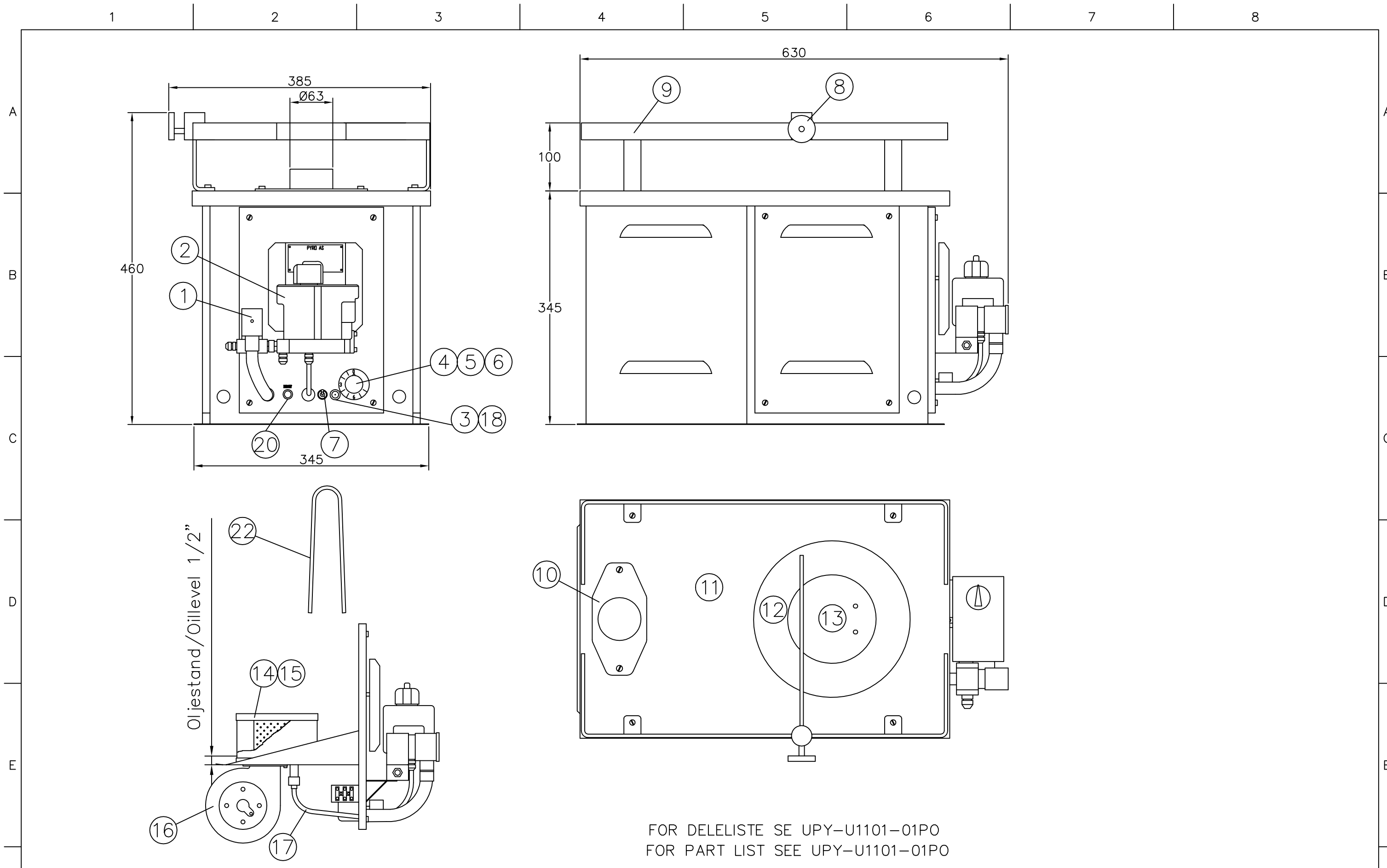
## ENVIRONMENTAL SPECIFICATION:

|                    |                   |
|--------------------|-------------------|
| TEMPERATURE        | +5 TO +90 DEGREES |
| OPERATING PRESSURE | Max. 16 BAR       |
| PROTECTION         | IP44              |
| WEIGHT             | APPROX: 6 KG      |

Note: Expansion tank and foundation will be delivered seperately.

|      |      |                       |         |          |        |
|------|------|-----------------------|---------|----------|--------|
| 1    | 4    | Pressure Gauge        | -PG001  |          |        |
| 1    | 3    | Valve Unit            | -WH-001 |          |        |
| 1    | 2    | Foundation            |         |          |        |
| 1    | 1    | Expansion Tank        |         |          |        |
| Qty. | Pos. | Name, Type, Dimension | Tag     | Material | Remark |

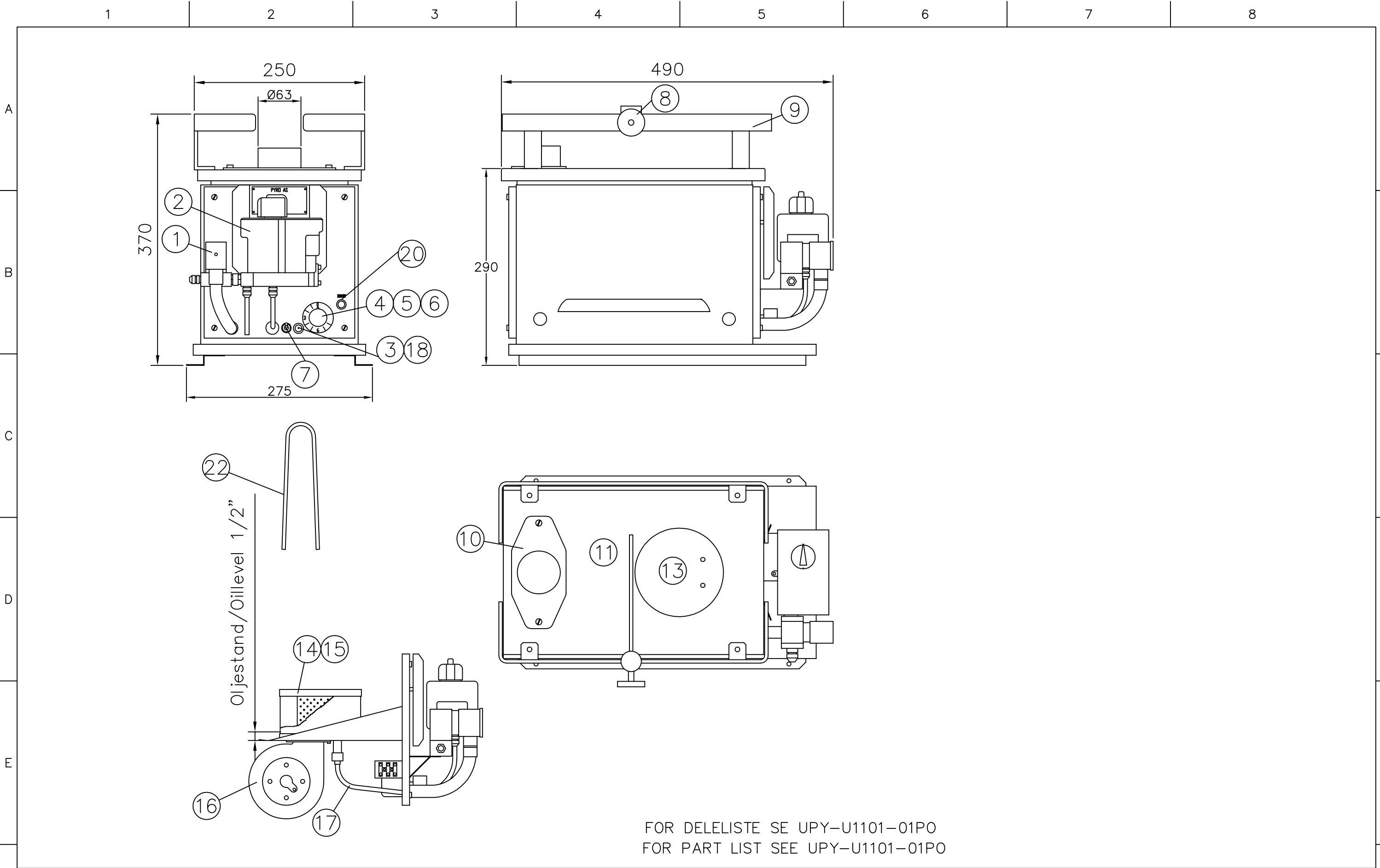
|                      |         |                                                                                      |                                             |                   |                                       |                          |       |           |
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| PYRO ORDER NO.       |         |  | PLANT :                                     | LOCATION :        | PRODUCT:<br><b>PRODUCT, AUXILIARY</b> | DOCUMENT NO.:            |       |           |
| PYRO ITEM NO.        | PF52001 |                                                                                      | AUTHOUR : ASK                               | DATE : 13.11.2013 |                                       | <b>UPY-F52001 - 01PL</b> |       |           |
| CUSTOMER             |         |  | FORMAT : A3                                 | SCALE : 1:5       | PAGE DESCRIPTION:                     | CADETT ELSA NO.:         | PAGE: | REVISION: |
| CUSTOMER REFERENCE   |         |                                                                                      | REVISION: DATE: SIGN: DESCRIPTION:          |                   | EXPANSION TANK, SANITARTY WATER       |                          |       |           |
| CUSTOMER PROJECT NO. |         |                                                                                      | B 18.08.2014 MA Changed Valve Unit position |                   | 12 LITRE LAYOUT                       | 1 OF 1                   |       | <b>B</b>  |



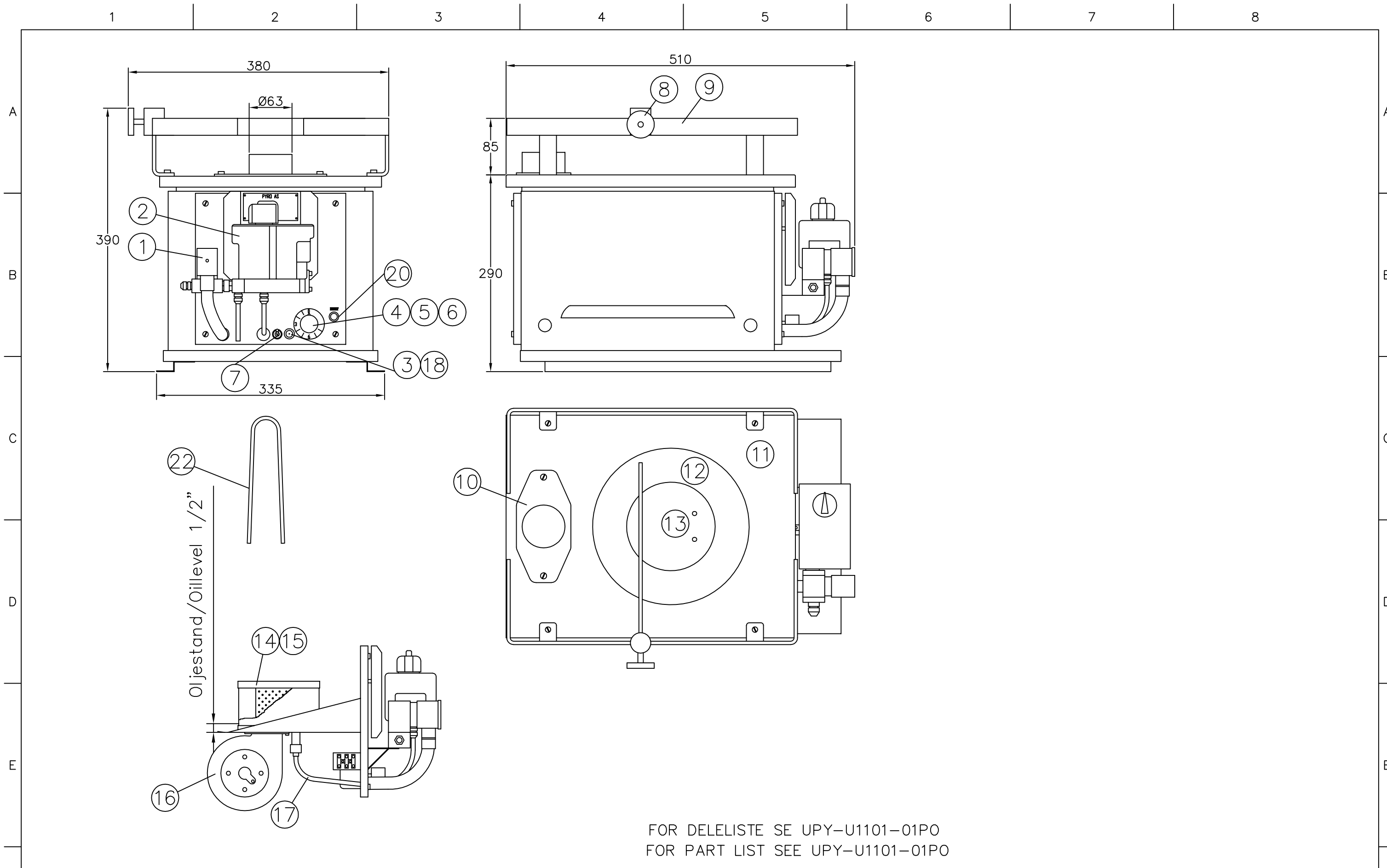
FOR DELELISTE SE UPY-U1101-01PO  
FOR PART LIST SEE UPY-U1101-01PO

|   |                      |             |                                                                                      |                                                                                 |                   |                                                             |                                        |  |  |
|---|----------------------|-------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|----------------------------------------|--|--|
| F | PYRO ORDER NO.       |             |  | PLANT :                                                                         | LOCATION :        | PRODUCT:<br>SMALL BOAT MARKED                               | DOCUMENT NO.:<br><br>UPY-U11001 - 01PL |  |  |
|   | PYRO ITEM NO.        | PU11001_P15 |                                                                                      | AUTHOUR: TS                                                                     | DATE : 01.02.2016 |                                                             |                                        |  |  |
|   | CUSTOMER             |             |                                                                                      | FORMAT : A3                                                                     | SCALE : 1: 5      | PAGE DESCRIPTION:<br><br>CABIN STOVE<br>TYPE: P15<br>LAYOUT |                                        |  |  |
|   | CUSTOMER REFERENCE   |             |                                                                                      | REVISION:    DATE:                      SIGN:                      DESCRIPTION: |                   |                                                             |                                        |  |  |
|   | CUSTOMER PROJECT NO. |             |                                                                                      |                                                                                 |                   |                                                             |                                        |  |  |

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| CADETT ELSA NO.: | PAGE:<br><br>1 OF 7 | REVISION:<br><br>A |
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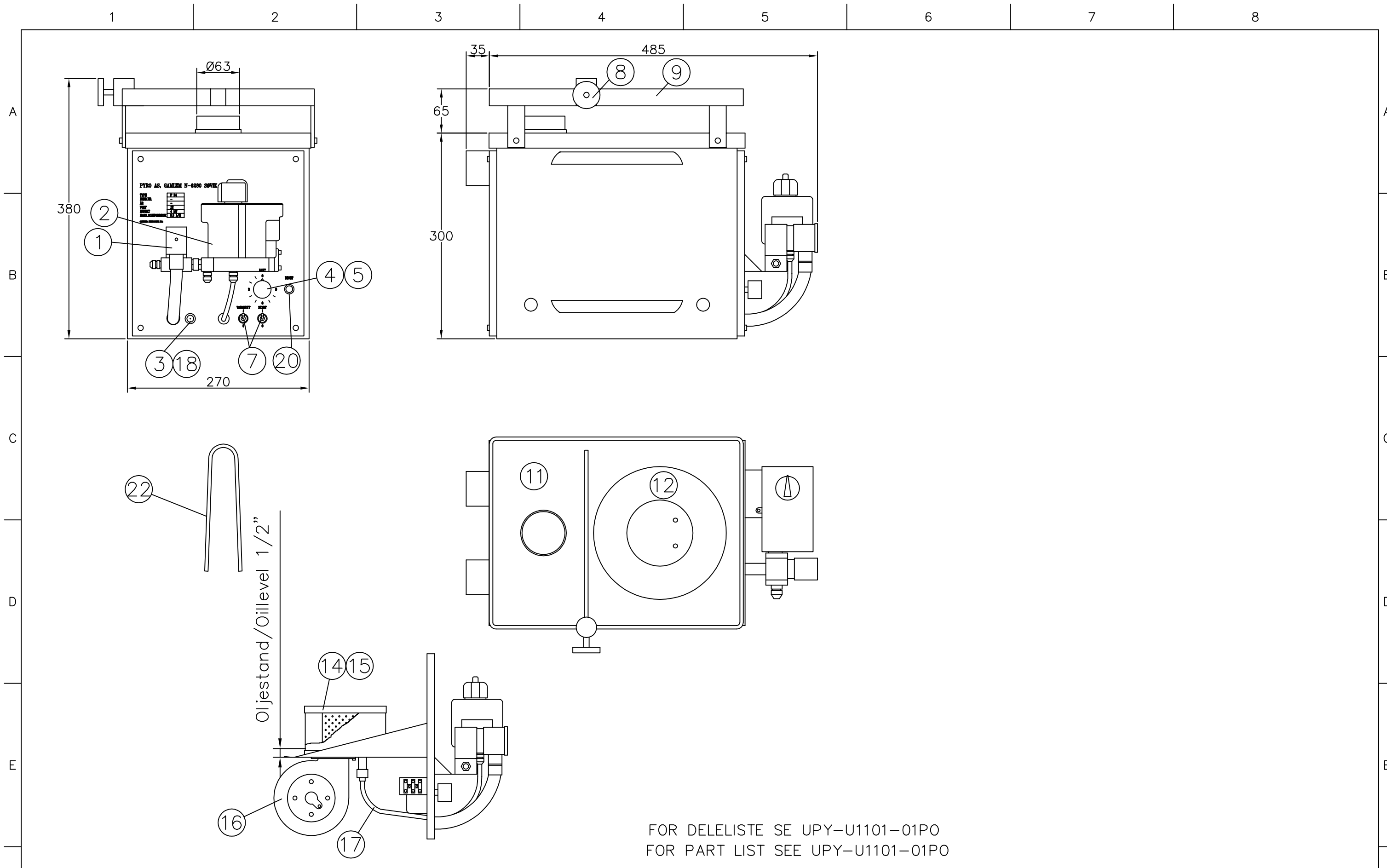


|                      |  |                                                                                      |                                                                                 |                   |                                    |                   |  |                 |                |
|----------------------|--|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|-------------------|--|-----------------|----------------|
| PYRO ORDER NO.       |  |  | PLANT :                                                                         | LOCATION :        | PRODUCT:<br>SMALL BOAT MARKED      | DOCUMENT NO.:     |  |                 |                |
| PYRO ITEM NO.        |  |                                                                                      | AUTHOUR : TS                                                                    | DATE : 01.02.2016 |                                    | UPY-U11001 - 01PL |  |                 |                |
| CUSTOMER             |  |                                                                                      | FORMAT : A3                                                                     | SCALE : 1: 5      | PAGE DESCRIPTION:                  |                   |  |                 |                |
| CUSTOMER REFERENCE   |  |                                                                                      | REVISION:    DATE:                      SIGN:                      DESCRIPTION: |                   |                                    | CADETT ELSA NO.:  |  |                 |                |
| CUSTOMER PROJECT NO. |  |                                                                                      |                                                                                 |                   | CABIN STOVE<br>TYPE: P21<br>LAYOUT |                   |  | PAGE:<br>2 OF 7 | REVISION:<br>A |



FOR DELELISTE SE UPY-U1101-01PO  
FOR PART LIST SEE UPY-U1101-01PO

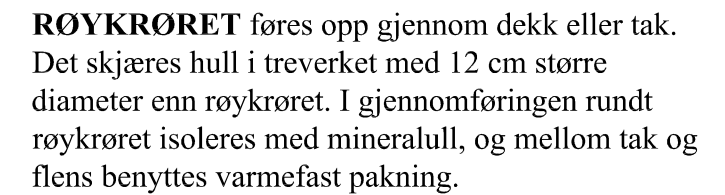
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| PYRO ORDER NO.       |             |  | PLANT :      | LOCATION :        | PRODUCT:                           | DOCUMENT NO.:     |           |  |
| PYRO ITEM NO.        | PU11001_P22 |                                                                                      | AUTHOUR: TS  | DATE : 01.02.2016 | SMALL BOAT MARKED                  | UPY-U11001 - 01PL |           |  |
| CUSTOMER             |             |                                                                                      | FORMAT : A3  | SCALE : 1: 5      | PAGE DESCRIPTION:                  | CADETT ELSA NO.:  |           |  |
| CUSTOMER REFERENCE   |             |                                                                                      | DESCRIPTION: |                   | CABIN STOVE<br>TYPE: P22<br>LAYOUT | PAGE:             | REVISION: |  |
| CUSTOMER PROJECT NO. |             | REVISION:    DATE:    SIGN:                                                          |              |                   |                                    | 3 OF 7            | A         |  |

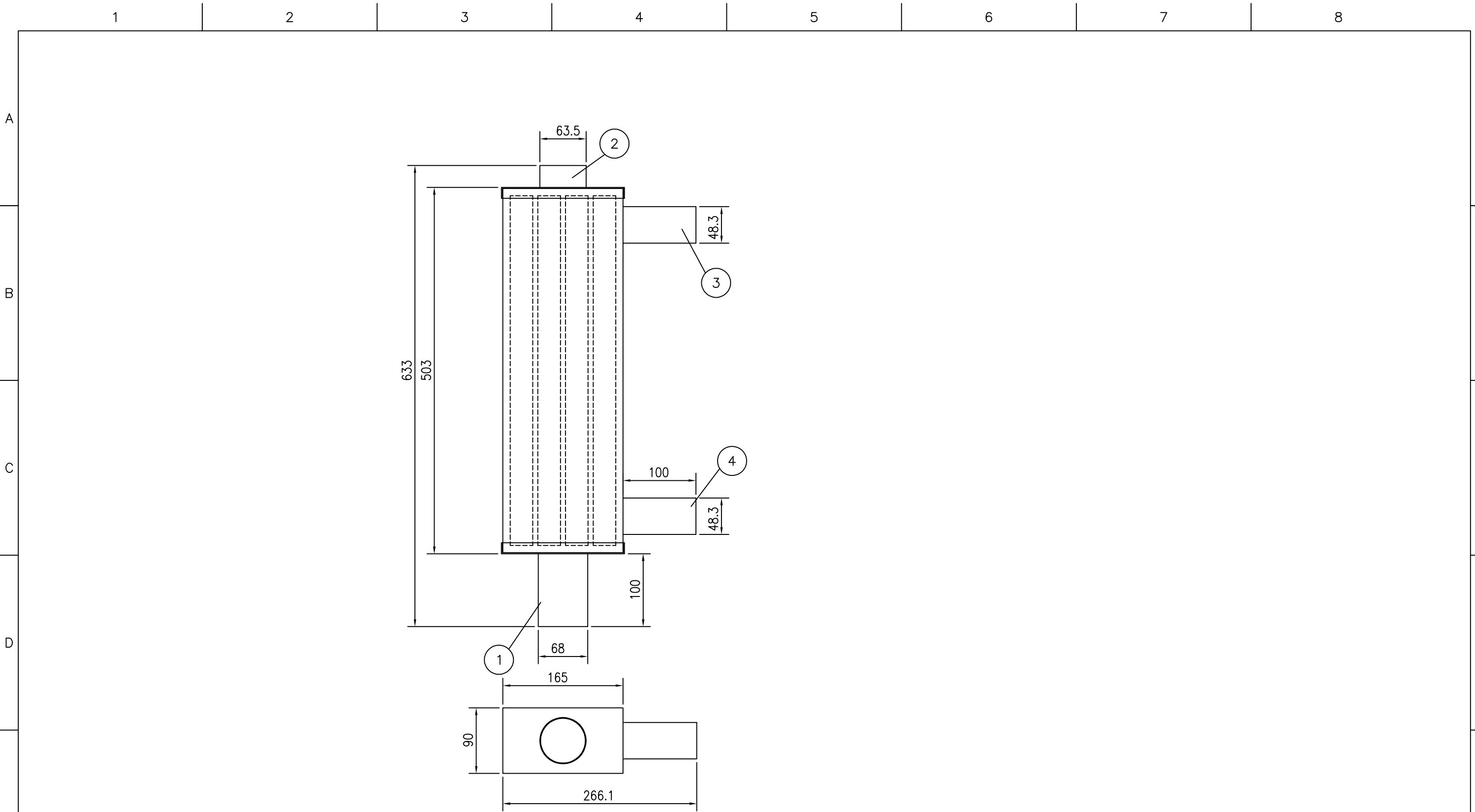


FOR DELELISTE SE UPY-U1101-01PO  
FOR PART LIST SEE UPY-U1101-01PO

|   |                      |  |                                                                                      |             |            |                                             |                                        |                                                         |                  |                     |                    |
|---|----------------------|--|--------------------------------------------------------------------------------------|-------------|------------|---------------------------------------------|----------------------------------------|---------------------------------------------------------|------------------|---------------------|--------------------|
| F | PYRO ORDER NO.       |  |  | PLANT :     | LOCATION : | PRODUCT:<br>SMALL BOAT MARKED               | DOCUMENT NO.:<br><br>UPY-U11001 - 01PL |                                                         |                  |                     |                    |
|   | PYRO ITEM NO.        |  |                                                                                      | PU11001_P24 |            |                                             |                                        |                                                         |                  | AUTHOUR : TS        | DATE : 01.02.2016  |
|   | CUSTOMER             |  |                                                                                      |             |            | FORMAT : A3                                 | SCALE : 1: 5                           | PAGE DESCRIPTION:<br>CABIN STOVE<br>TYPE: P24<br>LAYOUT | CADETT ELSA NO.: | PAGE:<br><br>4 OF 7 | REVISION:<br><br>A |
|   | CUSTOMER REFERENCE   |  |                                                                                      |             |            | REVISION:    DATE:    SIGN:    DESCRIPTION: |                                        |                                                         |                  |                     |                    |
|   | CUSTOMER PROJECT NO. |  |                                                                                      |             |            |                                             |                                        |                                                         |                  |                     |                    |

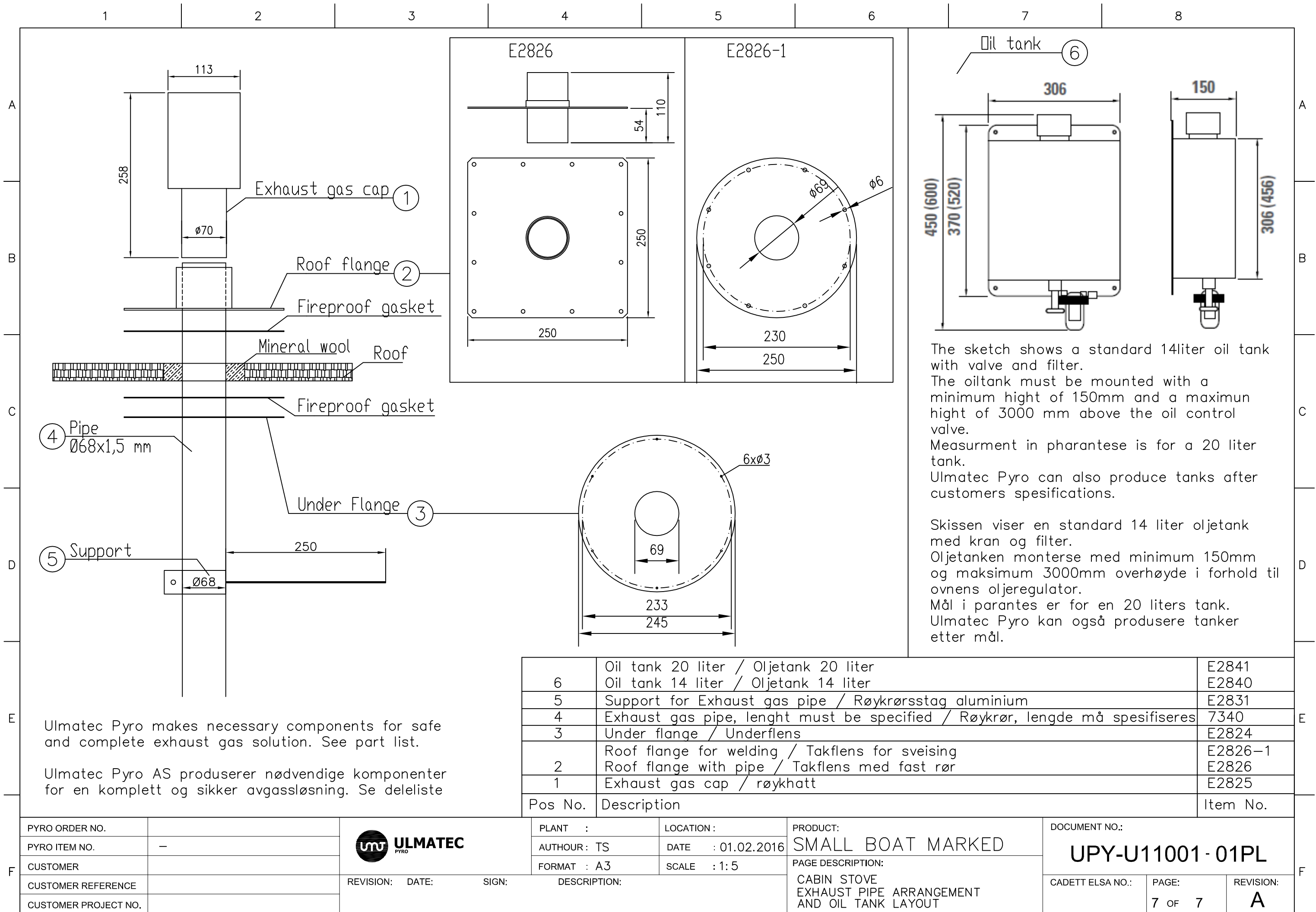
Ovnen skal festes til dørk eller benk i en avstand på 80mm fra ytre plate.

Uimatec Pyro AS



|           |           |                                                |                      |                       |                 |
|-----------|-----------|------------------------------------------------|----------------------|-----------------------|-----------------|
| 1         | 4         | Hot air out / Utløp varmluft                   |                      |                       |                 |
| 1         | 3         | Cold air in / Innløp kaldluft                  |                      |                       |                 |
| 1         | 2         | Exhaust out / Utløp eksos                      |                      |                       |                 |
| 1         | 1         | Exhaust in / Innløp eksos                      |                      |                       |                 |
| Ant. Qty. | Pos. Pos. | Navn, Type, Dimensjon<br>Name, Type, Dimension | Standard<br>Standard | Materiale<br>Material | Anm.<br>Comment |

|                      |       |                                                                                      |                                    |                   |                                                        |                   |                 |                |
|----------------------|-------|--------------------------------------------------------------------------------------|------------------------------------|-------------------|--------------------------------------------------------|-------------------|-----------------|----------------|
| PYRO ORDER NO.       |       |  | PLANT :                            | LOCATION :        | PRODUCT:                                               | DOCUMENT NO.:     |                 |                |
| PYRO ITEM NO.        | E2801 |                                                                                      | AUTHOUR: TS                        | DATE : 01.02.2016 | SMALL BOAT MARKED                                      | UPY-U11001 - 01PL |                 |                |
| CUSTOMER             |       |                                                                                      | FORMAT : A3                        | SCALE : 1: 5      | PAGE DESCRIPTION:                                      |                   |                 |                |
| CUSTOMER REFERENCE   |       |                                                                                      | REVISION: DATE: SIGN: DESCRIPTION: |                   | CABIN STOVE<br>AIR HEATER FOR P15, P21 & P22<br>LAYOUT | CADETT ELSA NO.:  | PAGE:<br>6 OF 7 | REVISION:<br>A |
| CUSTOMER PROJECT NO. |       |                                                                                      |                                    |                   |                                                        |                   |                 |                |



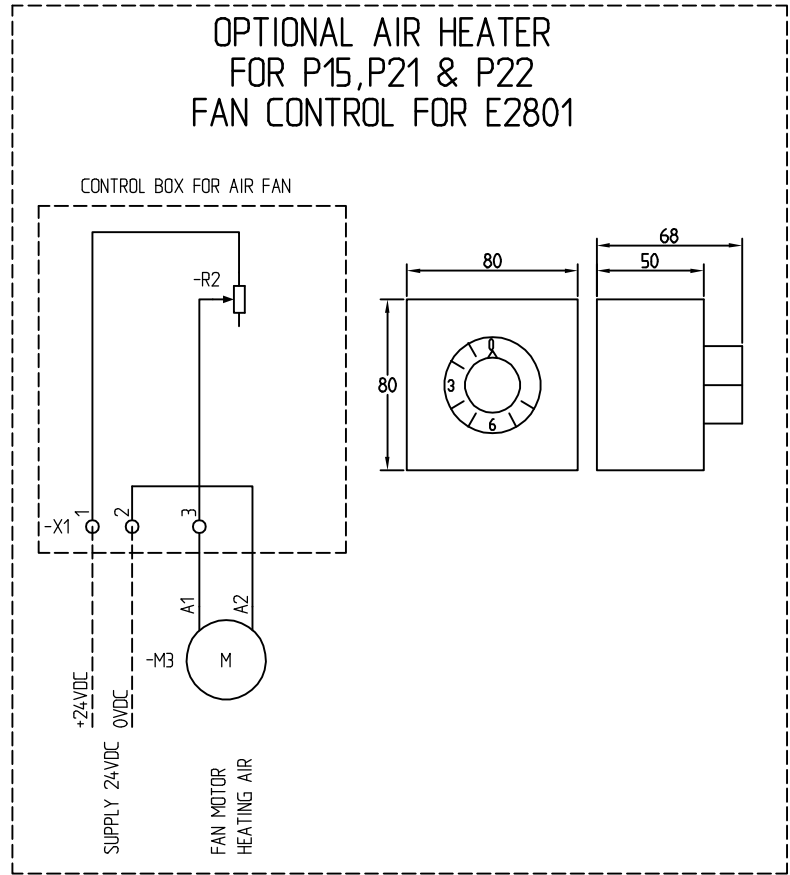
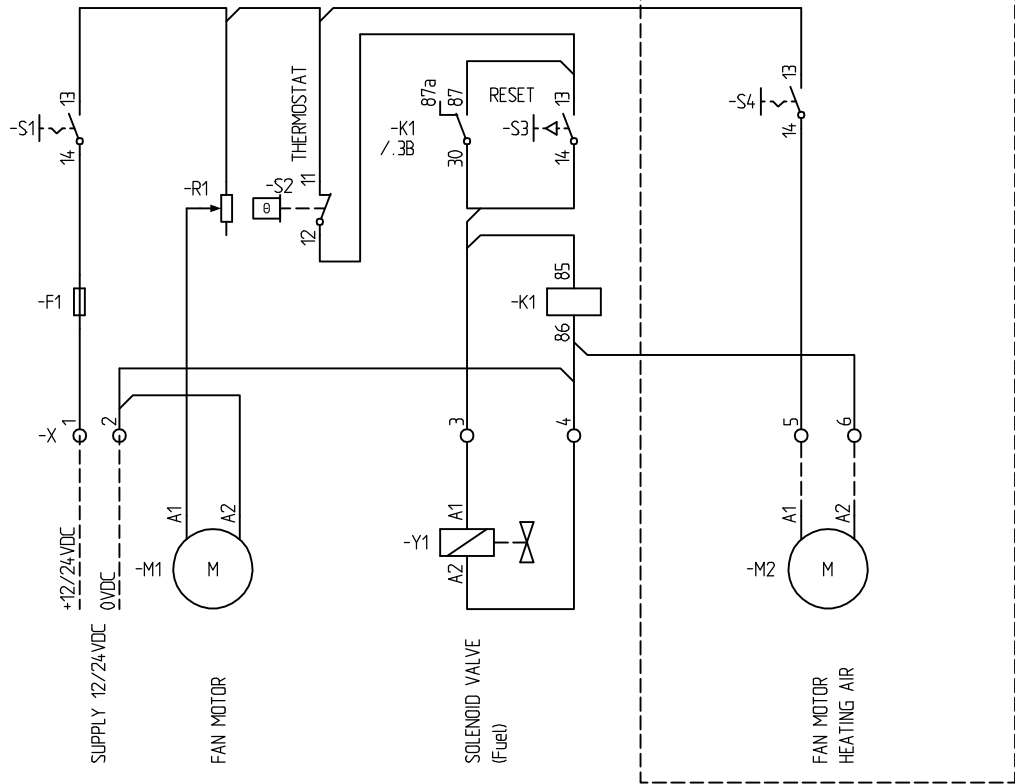


|                                                                                                              |                                                 |                                  |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|
| <b>Document Type:</b><br><b>PRODUCT-</b><br><b>Technical Specification /</b><br><b>Teknisk spesifikasjon</b> | <b>Document Name:</b><br><b>UPY-U11001-01PT</b> |                                  |
| <b>Document Title:</b><br>Cabin Stove / Oljefyrt båtovn<br><br>Type: P15, P21, P22 & P24                     | <b>Date First Issue:</b><br>02.02.2016          | <b>Revision:</b><br><br><b>A</b> |
|                                                                                                              | <b>Author:</b><br>Terje Sellereite              |                                  |

### Revision History

| Revision: | Description: | Date:      | Sign: |
|-----------|--------------|------------|-------|
| A         | First Issue  | 02.02.2016 | TS    |

| Technical Specification /<br>Teknisk spesifikasjon | P15                                                      | P21                                                      | P22                                                      | P24                                                      |
|----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Capacity / effect                                  | 5,5 [KW]                                                 | 4 [KW]                                                   | 4 [KW]                                                   | 4 [KW]                                                   |
| Capacity / effect                                  | 4800 [kcal/h]                                            | 3400 [kcal/h]                                            | 3400 [kcal/h]                                            | 3400 [kcal/h]                                            |
| Oil Consumption / Oljeforbruk                      | Max. 0.9 [Litre/h]                                       | Max. 0.66 [Litre/h]                                      | Max. 0.66 [Litre/h]                                      | Max. 0.66 [Litre/h]                                      |
| Weight / Vekt                                      | 50kg                                                     | 20kg                                                     | 21kg                                                     | 15kg                                                     |
| Fuel oil / Fyringsolje                             | Viscosity fuel oil:<br>0 – 3.5 cst/40 degree<br>Celsius. | Viscosity fuel oil:<br>0 – 3.5 cst/40 degree<br>Celsius. | Viscosity fuel oil:<br>0 – 3.5 cst/40 degree<br>Celsius. | Viscosity fuel oil:<br>0 – 3.5 cst/40 degree<br>Celsius. |
| Supply / Strømforsyning                            | 12VDC / 1,25A<br>24VDC / 0,71A                           | 12VDC / 1,25A<br>24VDC / 0,71A                           | 12VDC / 1,25A<br>24VDC / 0,71A                           | 12VDC / 1,25A<br>24VDC / 0,71A                           |



|   |    |                               |                                  |
|---|----|-------------------------------|----------------------------------|
| 1 | M3 | Air fan motor                 | Optional, only for P15,P21 & P22 |
| 1 | R2 | Potentiometer (Air fan speed) | Optional, only for P15,P21 & P22 |
| 1 | S4 | Switch for fan heating air    | Optional, only for P24           |
| 1 | M2 | Fan heating air               | Optional, only for P24           |
| 1 | F1 | Main fuse                     | -                                |
| 1 | S3 | Reset                         |                                  |
| 1 | S2 | Fan thermostat                |                                  |
| 1 | S1 | Main switch                   |                                  |
| 1 | K1 | Relay                         |                                  |
| 1 | M1 | Fan motor                     |                                  |
| 1 | R1 | Potentiometer (Fan speed)     |                                  |
| 1 | Y1 | Solenoid valve (Fuel)         |                                  |

Wire power (230VAC and 24VDC) : 1,5q  
Wire IO : 1q

|                      |         |                                                                                     |                                            |               |                                 |                  |        |           |
|----------------------|---------|-------------------------------------------------------------------------------------|--------------------------------------------|---------------|---------------------------------|------------------|--------|-----------|
| ULMATEC ORDER NO.    |         |  | PLANT : =                                  | LOCATION :    | PRODUCT:                        | DOCUMENT NO.:    |        |           |
| ULMATEC ITEM NO.     | PU11001 |                                                                                     | AUTHOR : TS                                | DATE : 160126 | CABIN STOVE                     | UPY-U11001-01PW  |        |           |
| CUSTOMER             |         | REVISION: DATE: SIGN: DESCRIPTION:                                                  | FORMAT : A3                                | SCALE : N/A   | PAGE DESCRIPTION:               | CADETT ELSA NO.: | PAGE:  | REVISION: |
| CUSTOMER REFERENCE   |         |                                                                                     |                                            |               | PRODUCT WIRING                  | PU11001          | 1 OF 1 | B         |
| CUSTOMER PROJECT NO. |         |                                                                                     | B 28.04.16 TS CHANGED INTERNAL CONNECTIONS |               | TYPE P15, P21, P22 & P24 WIRING |                  |        |           |

Index divider: Section 3 1

|                                                            |                                          |                       |
|------------------------------------------------------------|------------------------------------------|-----------------------|
| Document Type:<br><b>PRODUCT-<br/>Operator Guidelines</b>  | Document Name:<br><b>UPY-U11001-01PO</b> |                       |
| Document Title:<br>Cabin Stove<br>Type P15, P21, P22 & P24 | Date First Issue:<br>01.02.2016          | Revision:<br><b>A</b> |
|                                                            | Author:<br>Terje Sellereite              |                       |

| Revision History |              |            |       |
|------------------|--------------|------------|-------|
| Revision:        | Description: | Date:      | Sign: |
| A                | First Issue  | 01.02.2016 | TS    |
|                  |              |            |       |

| Document Summary                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b><u>This document includes guidelines for:</u></b></p> <ul style="list-style-type: none"> <li>- Operator Guidelines / Bruker instruksjon</li> <li>- Commission / Idriftssetting</li> <li>- Maintenance and recommendation /Vedlikehold og anbefalinger</li> </ul> |

## CONTENTS / INNHOLD

|          |                                                       |          |
|----------|-------------------------------------------------------|----------|
| <b>1</b> | <b>ENGLISH VERSION.....</b>                           | <b>2</b> |
| 1.1      | INSTALLATION INSTRUCTIONS FOR PYRO CABIN STOVES ..... | 2        |
| 1.2      | INSTRUCTIONS FOR PYRO CABINSTOVES .....               | 3        |
| 1.3      | MAINTENANCE .....                                     | 3        |
| 1.4      | PART LIST (DRAWING. NO. UPY-U11001-01PL).....         | 4        |
| <b>2</b> | <b>NORSK VERSJON .....</b>                            | <b>5</b> |
| 2.1      | MONTERING AV PYRO OLJEFYRT BÅTOVN.....                | 5        |
| 2.2      | BRUKSANVISNING FOR PYRO OLJEFYRT BÅTOVN .....         | 6        |
| 2.3      | VEDLIKEHOLD .....                                     | 7        |
| 2.4      | DELELISTE (TEGNING. NO. UPY-U11001-01PL).....         | 7        |

## 1 English version

### 1.1 INSTALLATION INSTRUCTIONS FOR PYRO CABIN STOVES

The PYRO cabin stoves should be installed in accordance with installation sketch no. UPY-U11001-01PL.

**THE OIL TANK** should be situated outside the cabin in which the stove is installed. On the oil tank outlet there should be installed a shut off valve and a strainer for collecting water and particles. An automatic oil supply arrangement to the tank should not be installed.

**THE OIL PIPE** from tank to the cabin stove should be made of copper, 1/4 inch outside diameter (6mm). Install the oil pipe such that air pockets are avoided.

#### STOVES WITH HOT AIR CIRCULATION (P24):

On the back of the stove there are two 48,3mm tubes. One of the tubes is connected to a fan, by means of a heat resistant hose approx. 0,4m long, to reduce the influence of heat, when this fan is not in operation. The fan forces the air through the internal heat exchanger inside the stove, and from the other tube directly out in the cabin, or to another place through a tube or a hose.

#### STOVES WITH HOT AIR CIRCULATION ON THE EXHAUST PIPE (P15, P21 & P22):

On the exhaust pipe, Air Heater E2801 can be mounted. On the air heater there are two 48,3mm tubes. One of the tubes is connected to a fan, by means of a heat resistant hose approx. 0,4m long, to reduce the influence of heat, when this fan is not in operation. The fan circulates the air in the air heater. Hot air can be used for heating in the cabin, or to another place through a tube or hose.

## 1.2 INSTRUCTIONS FOR PYRO CABINSTOVES

The current is turned on by means of the start-switch.

The reset button must be pressed to restart the stove after loss of power, or if the fan thermostat is released.

The oil flow controller, on the top of the floating valve, should be opened until some oil has entered the burner cup.

When lighting the small oil amount in the burner cup, use a lighting pill, or a piece of paper moistured in oil.

It will be easier to lighten the burner if the current is turned off, and the fan not working. Switch on the current when the flame established (turn the fan speed regulator anticlockwise on maximum, before the current is turned on) and adjust the combustion air supply to right level.

The amount of oil and air should be adapted, until the flame occurs with a bright yellow colour.

If the combustion air supply is insufficient small, the burner pot will create smoky exhaust. If the combustion air supply is insufficient high, the burner will be cooled down, and give bad combustion.

The cabin stove burns marine diesel oil or paraffin.



Turning the MAX screw against +/-, increases/decreases the maximum fuel amount to the burner.

Turning the MIN screw against +/-, increases/decreases the minimum fuel amount to the burner.

### 1.3 MAINTENANCE

During inspection of the cabin stove, ensure that all oil and air ducts in the burner are open. Check that there is no presence of water inside the oil floating valve, as this is a main reason of malfunction of the cabin stove.

In the bottom of the burner pot, on the oil inlet, a protective button is installed to prevent ash or other particles to reach the oil inlet tube. The protective button must be replaced after cleaning.

Do not use the burner for burning paper or other garbage as this could clog up the oil and air ducts.

By dismantling the four screws on the edges of the front plate, the burner unit could be recessed, and easily inspected or cleaned. By disconnecting the power supply, the burner unit could be removed.

### 1.4 PART LIST (DRAWING. NO. UPY-U11001-01PL)

| POS. | PART                                | P15(page 1) | P21(page 2) | P22(page 3) | P24(page 4) |
|------|-------------------------------------|-------------|-------------|-------------|-------------|
| 1    | SOLENOID VALVE 12V.                 | 2520-2      | 2520-2      | 2520-2      | 2520-2      |
|      | SOLENOID VALVE 24V.                 | 2521-2      | 2521-2      | 2521-2      | 2521-2      |
| 2    | OILCONTROL VALVE                    | E2293       | E2292       | E2292       | E2292       |
| 3    | FUSE HOLDER                         | 3531        | 3531        | 3531        | 3531        |
| 4    | INDICATOR (ELMA)                    | 8351        | 8351        | 8351        | 8351        |
| 5    | POTENTIOMETER 12V.                  | 2420-1      | 2420-1      | 2420-1      | 2420-1      |
|      | POTENTIOMETER 24V.                  | 2422        | 2422        | 2422        | 2422        |
| 6    | DIAL 0-9                            | 9050        | 9050        | 9050        | 9050        |
| 7    | MAIN SWITCH / HOT AIR               | 23625       | 23625       | 23625       | 23625       |
| 8    | ADJUSTABLE GIMBAL                   | E2260       | E2260       | E2260       | E2260       |
| 9    | GIMBALS                             | E2270       | E2271       | E2272       | E2273       |
| 10   | SMOKE CONN.                         | E5297       | E5297       | E5297       | -           |
| 11   | TOPPLATE                            | E5205       | E5204       | E5201       | -           |
| 12   | COOKING PLATE W/FIRECAP             | E52012      |             | E52012      | E52072      |
| 13   | FIRE CAP                            | E52042      | E52042      | E52042      | E52071      |
| 14   | BURNER CUP                          | E2245       | E2245       | E2245       | E2245       |
| 15   | OIL NOZZLE                          | E5251       | E5251       | E5251       | E5251       |
| 16   | FAN 12V.                            | 2151        | 2151        | 2151        | 2151        |
|      | FAN 24V.                            | 2152        | 2152        | 2152        | 2152        |
| 17   | OIL PIPE                            | E22453      | E22452      | E22452      | E22455      |
| 18   | FUSE 2A.<br>(See UPY-U11001-01PW)   | 3530        | 3530        | 3530        | 3530        |
| 19   | THERMOSTAT<br>(See UPY-U11001-01PW) | 2211        | 2211        | 2211        | 2211        |
| 20   | RESET BUTTON                        | 2363        | 2363        | 2363        | 2363        |
| 21   | RELAY 12V                           | 26462       | 26462       | 26462       | 26462       |
|      | RELAY 24V                           | 26463       | 26463       | 26463       | 26463       |
| 22   | HOOK                                | E5292       | E5292       | E5292       | E5292       |

## 2 Norsk versjon

### 2.1 MONTERING AV PYRO OLJEFYRT BÅTOVN

PYRO båtovn monteres i henhold til monterings tegning UPY-U11001-01PL.

**OLJETANK** monteres utenfor det rommet hvor ovnen er montert. Oljetanken skal være utstyrt med kran og oljefilter for utskilling av vann og evt. slam. Den skal ikke ha arrangement for automatisk fylling.

**OLJELEDNINGEN** fra tank til ovn skal være av kopper, med diameter 1/4" (6mm) utvendig. Denne legges på en slik måte at en unngår luftlommer, som kan hindre oljetilførselen.

#### FOR OVNER MED VARMLUFTUTTAK: (P24)

På ovnens bakside er der to 48,3mm rørslutninger hvorav den ene tilsluttes vifte via en varmekast slange/rør på ca. 40cm. Dette for å hindre at viften blir overopphetet når den ikke er i drift. Viften blåser luft gjennom varmeveksleren i ovnen hvor luften blir oppvarmet. Varmluften kan blåses direkte i lugaren, eller ledes luften i rør til andre steder.

#### OVNER MED LUFTVARMER PÅ EKSOSRØR(P15, P21 & P22):

Luftvarmer E2801 kan monteres på eksosrøret. På luftvarmeren er der to 48,3mm rørslutninger. Den ene tilsluttes vifte via en varmekast slange/rør på ca. 40cm. Dette for å hindre at viften blir overopphetet når den ikke er i drift. Viften blåser luft gjennom luftvarmeren der luften blir oppvarmet. Varmluften kan blåses direkte i lugaren, eller ledes luften i rør til andre steder.

## 2.2 BRUKSANVISNING FOR PYRO OLJEFYRT BÅTOVN

Slå på strømmen med startbryteren.

Reset knapp må betjenes etter strømbrydd, eller dersom viftetermostaten har blitt løst ut.

Oljekranen på flottørventilen åpnes til det kommer litt olje i brennerskålen.

Ved tenning av oljen i brennerskålen brukes en sprittablett, rødsprit eller litt papir fuktet i olje.

Det er enklest å tenne brenneren om en slår av strømbryteren slik at viften stopper. Viften skrus på igjen så snart flamme er etablert. For å være sikker på at viften starter, skru potensiometeret på fullt (mot urviseren) før strømbryteren slås på. Hastigheten justeres til passelig luftmengde.

Olje. og luftmengde tilpasses slik at brenneren har en klar, smørgul flamme.

Ved for liten lufttilførsel vil brenneren sote. Ved for mye luft vil den bli kald, og dermed få en dårlig forbrenning.

Ved slukking av brenneren stenges oljestillet, og først etter at brenneren har sluknet, slås strømbryteren av.

Som brennstoff benyttes diesel (fyringsolje nr. 1) eller parafin.



Justering av MAX skru mot +/-, øker/minsker maksimum oljemengde til brenneren.

Justering av MIN skru mot +/-, øker/minsker minimum oljemengde til brenneren.

## 2.3 VEDLIKEHOLD

Ved ettersyn av ovnen bør en påse at olje- og luftkanaler i brenneren åpne, samt kontrollere at det ikke er vann i flottørventil og tank. Ovnens brennkammer og avgassrør må feies etter behov.

I oljeinnløpet i bunnen av brenneren er det plassert en brennerknast for å hindre at aske og slagg faller ned i oljerøret. Denne knasten må også renses og settes på plass igjen etter rengjøring av brenneren.

Brenn aldri papir, avfall e.l. i ovnen da dette kan tette til olje og lufttilførsel.

Ved å skru ut skruene i hvert hjørne av frontplaten kan hele brennerutstyret trekkes ut, og ettersyn og rengjøring er dermed en enkel sak.

## 2.4 DELELISTE (TEGNING. NO. UPY-U11001-01PL)

| POS. | PART                               | P15(page 1) | P21(page 2) | P22(page 3) | P24(page 4) |
|------|------------------------------------|-------------|-------------|-------------|-------------|
| 1    | MAGNETVENTIL 12V.                  | 2520-2      | 2520-2      | 2520-2      | 2520-2      |
|      | MAGNETVENTIL 24V.                  | 2521-2      | 2521-2      | 2521-2      | 2521-2      |
| 2    | FLOTTØRVENTIL                      | E2293       | E2292       | E2292       | E2292       |
| 3    | SIKRINGSHOLDER                     | 3531        | 3531        | 3531        | 3531        |
| 4    | PILVISER                           | 8351        | 8351        | 8351        | 8351        |
| 5    | POTENSIOMETER 12V.                 | 2420-1      | 2420-1      | 2420-1      | 2420-1      |
|      | POTENSIOMETER 24V.                 | 2422        | 2422        | 2422        | 2422        |
| 6    | TALLSKIVE 0-9                      | 9050        | 9050        | 9050        | 9050        |
| 7    | HOVEDBRYTER/VARMLUFT               | 23625       | 23625       | 23625       | 23625       |
| 8    | PANNEHOLDER                        | E2260       | E2260       | E2260       | E2260       |
| 9    | SLINGREJERN                        | E2270       | E2271       | E2272       | E2273       |
| 10   | RØYKTUT                            | E5297       | E5297       | E5297       | -           |
| 11   | BYSSEPLATE                         | E5205       | E5204       | E5201       | -           |
| 12   | KOKEPLATE MED HULL                 | E52012      |             | E52012      | E52072      |
| 13   | OPPFYRINGSLOKK                     | E52042      | E52042      | E52042      | E52071      |
| 14   | BRENNERSKÅL                        | E2245       | E2245       | E2245       | E2245       |
| 15   | DYSE FOR BRENNERSKÅL               | E5251       | E5251       | E5251       | E5251       |
| 16   | VIFTE 12V.                         | 2151        | 2151        | 2151        | 2151        |
|      | VIFTE 24V.                         | 2152        | 2152        | 2152        | 2152        |
| 17   | OLJERØR                            | E22453      | E22452      | E22452      | E22455      |
| 18   | SIKRING 2A<br>(Se UPY-U11001-01PW) | 3530        | 3530        | 3530        | 3530        |
| 19   | TERMOSTAT<br>(Se UPY-U11001-01PW)  | 2211        | 2211        | 2211        | 2211        |
| 20   | RESET KNAPP                        | 2363        | 2363        | 2363        | 2363        |
| 21   | RELE 12V                           | 26462       | 26462       | 26462       | 26462       |
|      | RELE 24V                           | 26463       | 26463       | 26463       | 26463       |
| 22   | GAFFEL OPPFYRINGSLOKK              | E5292       | E5292       | E5292       | E5292       |