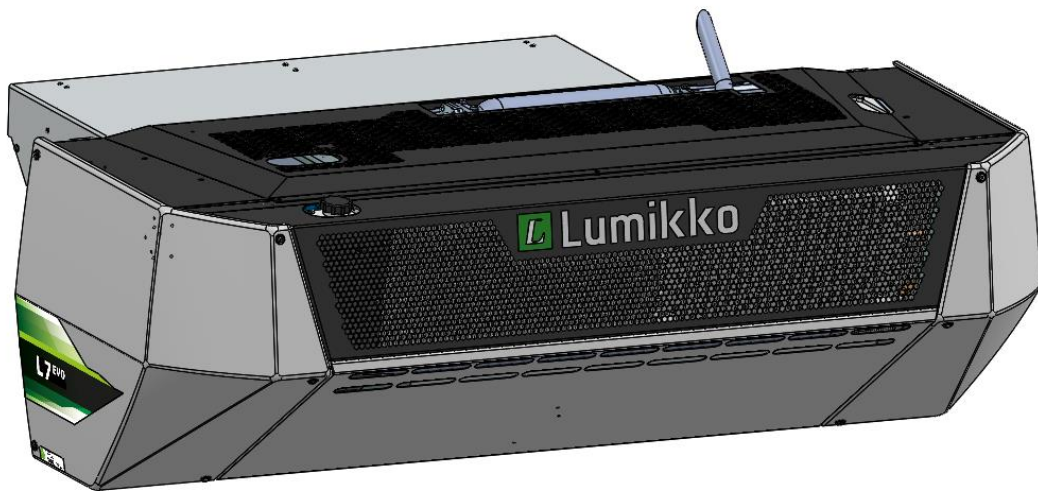


VARAOSAKIRJA

SPARE PART BOOK

# L7EVO YANMAR



**L7XE**

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**VARAOSAKIRJA  
SPARE PART BOOK****LUMIKKO – LÄMPÖTILANSÄÄTÖLAITE  
LUMIKKO – TEMPERATURE CONTROL UNIT****L7EVO****Alkuperäinen/Original  
(FIN/ENG)**

|                                        |                                                              |
|----------------------------------------|--------------------------------------------------------------|
| <b>Tuotekoodi / Product code (ERP)</b> | xxx (Tähän NOVAn tuotekoodi ao. laitteelle, ei dokumentille) |
|----------------------------------------|--------------------------------------------------------------|

|                           | <b>Nimi / name</b> | <b>Pvm / date</b> |
|---------------------------|--------------------|-------------------|
| <b>Laatija / writer</b>   | HYL                | 06.05.2020        |
| <b>Revisio / revision</b> | 00                 | 06.05.2020        |

**Revisio muutokset / Revision changes / Revisions ändringarna**

| <b>Rev</b> | <b>Nimi / name</b> | <b>Pvm / date</b> | <b>Selitys / explanation</b>       |
|------------|--------------------|-------------------|------------------------------------|
| 01         | JRI                | 18.05.2021        | Sähkökeskusten osat päivitetty.    |
| 02         | JRI                | 25.09.2024        | Ex-venttiilin varaosakoodi muutos. |
|            |                    |                   |                                    |
|            |                    |                   |                                    |



# L7XE

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**YLEISTÄ**

**Käytä vain alkuperäisiä Lumikko -lämpötilansäätölaitteen osia, jotta lämpötilansäätölaitteen luotettavuus ja laatu säilyvät.** Muiden kuin alkuperäisten osien asentaminen saattaa vahingoittaa lämpötilansäätölaitetta. Tällaisten osien käyttäminen lopettaa takuun, koska niitä ei ole testattu Lumikko Technologies Oy:n toimesta.

Tilaa aina varaosat Lumikko Technologies Oy:stä.



**Tutustu huoltopisteen huoltomanuaaliin ja lue annetut turvallisuusohjeet huolellisesti ennen huolto- ja korjaustoimenpiteiden suorittamista.**

**Tilausohjeet**

Ennen kuin tilaat varaosia selvitä lämpötilansäätölaitteen runkoon kiinnitetystä tyyppikilvestä laitteen tyyppi, sarjanumero ja valmistumisaika sekä tilattavan osan tilausnumero.

---

**GENERAL**

**To maintain reliability and quality of the temperature control unit, use only original Lumikko – spare parts.** Using other than original parts may damage the temperature control unit. Using other than original parts also voids the warranty, because they have not been tested by Lumikko Technologies Oy.

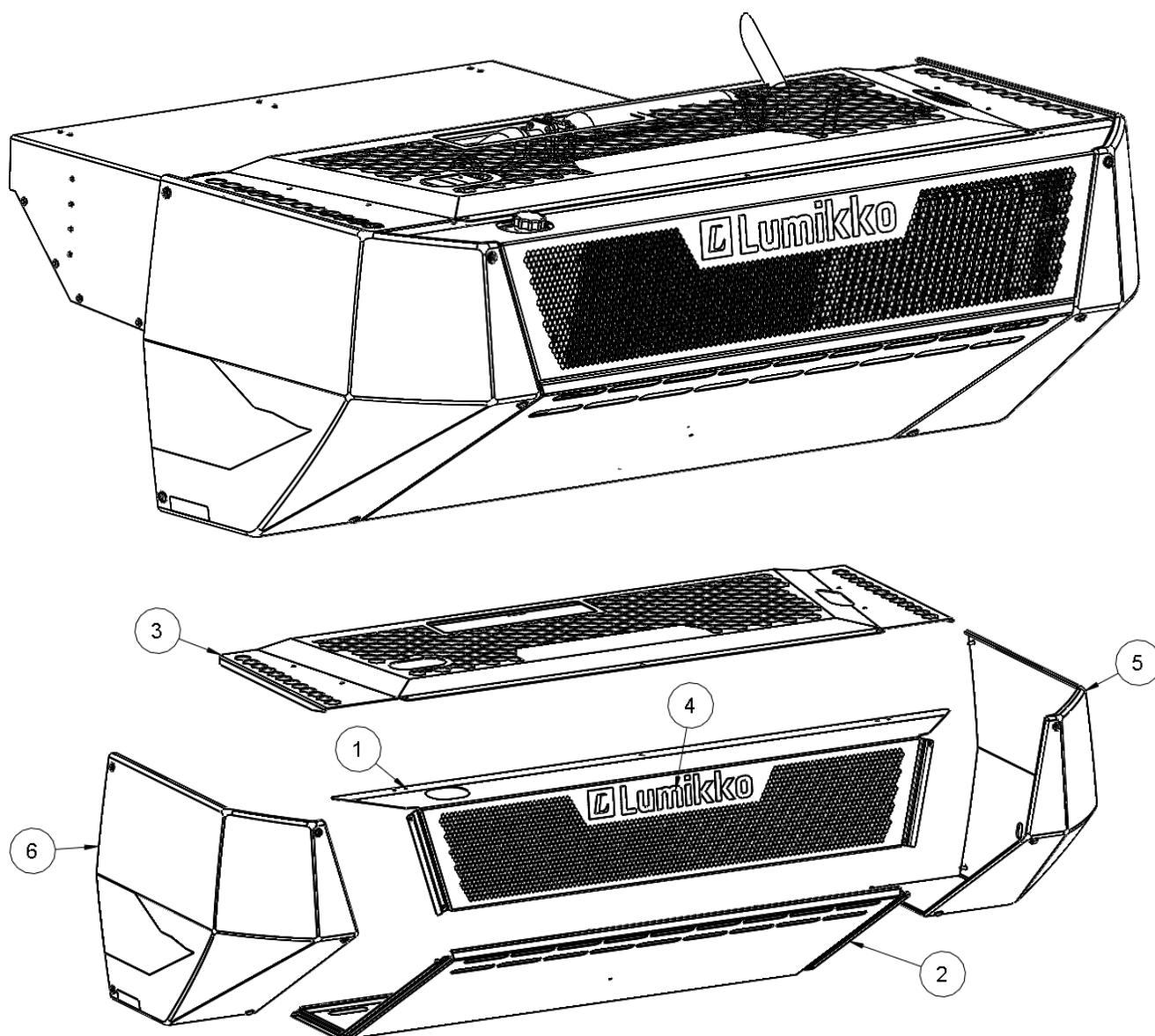
Always order spare parts from Lumikko Technologies Oy.



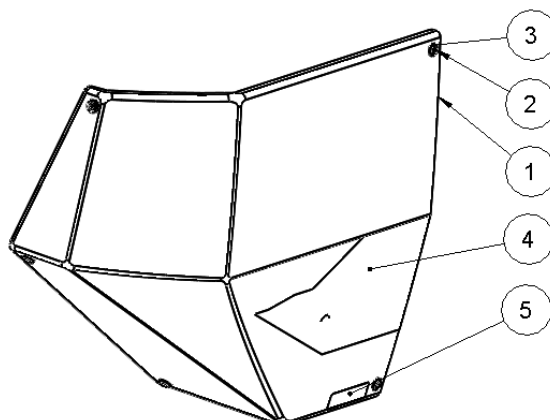
**Familiarize into the maintenance point's maintenance manual and read the given safety instructions before making any maintenance or reparation operation.**

**Order instructions**

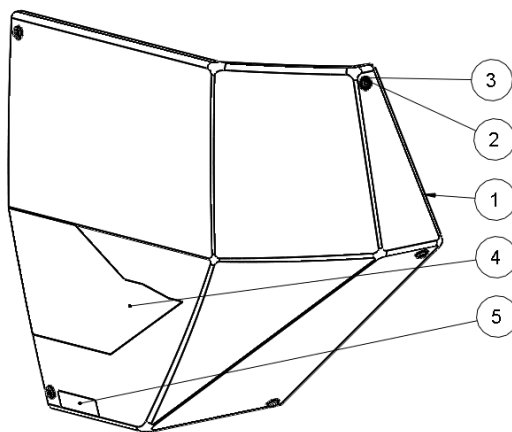
Before you order spare parts check from nameplate, fastened to temperature control unit frame, type, serial number and installation date and also ordered parts order number.

**KUORET (KP)**
**COVERS (ASSY)**

**200208817**

| ID | SPARE PART CODE | KUVAUS      | DESCRIPTION   | QTY |
|----|-----------------|-------------|---------------|-----|
| 1  | 200209163       | Verkko      | Mesh          | 1   |
| 2  | 200209263       | Pohjakuori  | Bottom cover  | 1   |
| 3  | 200209332       | Konepelti   | Hood          | 1   |
| 4  | PR241030438     | Tarra, logo | Sticker, logo | 1   |
| 5  | 200301136       | Sivukuori   | Side cover    | 1   |
| 6  | 200301138       | Sivukuori   | Side cover    | 1   |

**SIVUKUORI**
**SIDE COVER**

**200301136**

| ID | SPARE PART CODE | KUVAUS              | DESCRIPTION             | QTY |
|----|-----------------|---------------------|-------------------------|-----|
| 1  | 200209196       | Sivukuori           | Side cover              | 1   |
| 2  | 200112192       | Uraruuvi, kupukanta | Machine screw, pan head | 6   |
| 3  | BB1203          | Muoviholkki         | Plastic sleeve          | 6   |
| 4  | 225021031       | Tarra               | Sticker                 | 1   |
| 5  | 225021026       | Tarra               | Sticker                 | 1   |

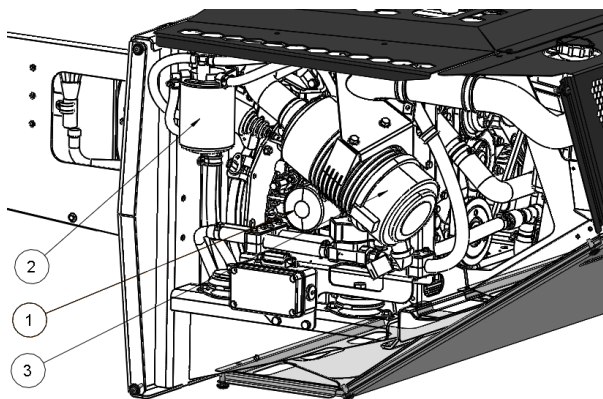

**200301138**

| ID | SPARE PART CODE | KUVAUS              | DESCRIPTION             | QTY |
|----|-----------------|---------------------|-------------------------|-----|
| 1  | 200213901       | Sivukuori           | Side cover              | 1   |
| 2  | 200112192       | Uraruuvi, kupukanta | Machine screw, pan head | 6   |
| 3  | BB1203          | Muoviholkki         | Plastic sleeve          | 6   |
| 4  | 225021031       | Tarra               | Sticker                 | 1   |
| 5  | 225021026       | Tarra               | Sticker                 | 1   |

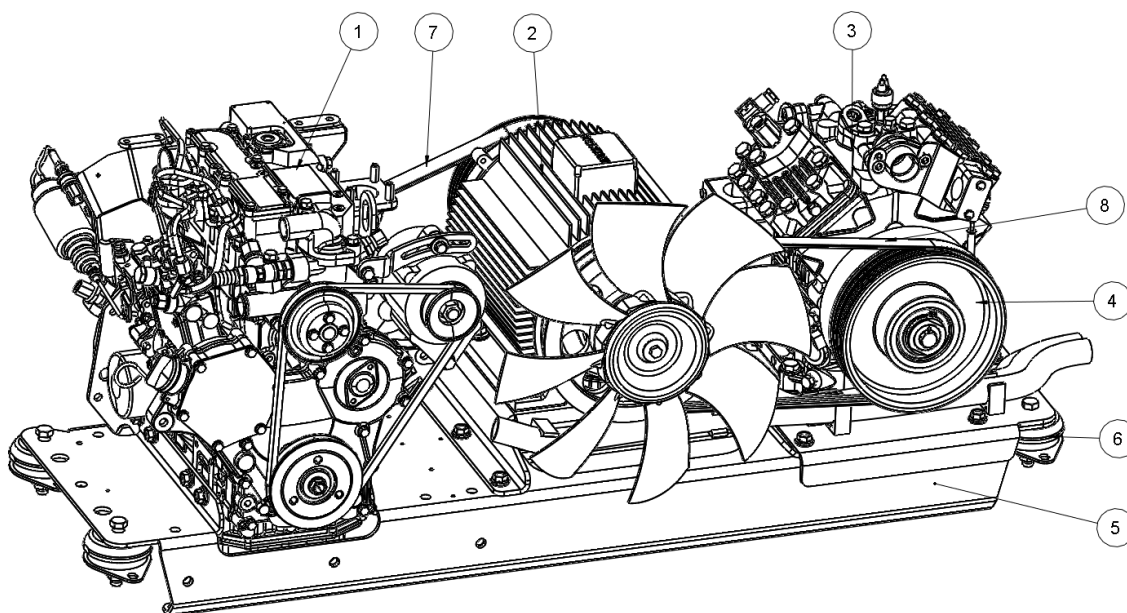
## L7XE

### SUODATTIMET

### FILTERS

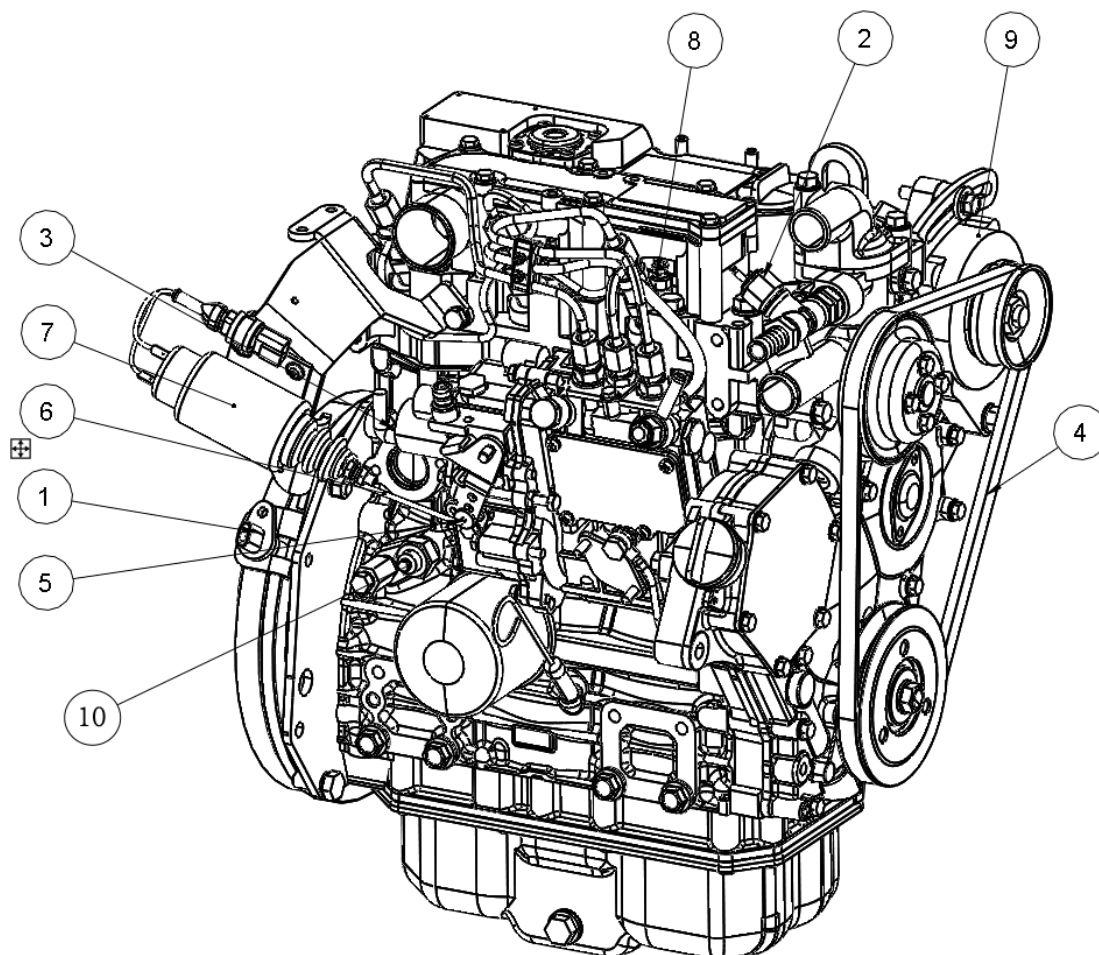


| ID | SPARE PART CODE | KUVAUS               | DESCRIPTION | QTY |
|----|-----------------|----------------------|-------------|-----|
| 1  | YA200300535     | Öljynsuodatin        | Oil filter  | 1   |
| 2  | LU107           | Polttoaineensuodatin | Fuel filter | 1   |
| 13 | YA200300534     | Ilmansuodatin        | Air filter  | 1   |



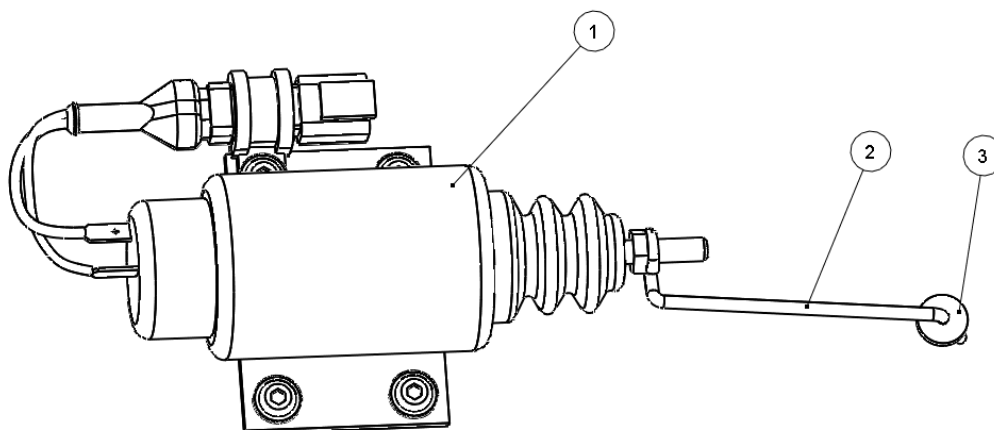
| ID | SPARE PART CODE | KUVAUS                          | DESCRIPTION                          | QTY |
|----|-----------------|---------------------------------|--------------------------------------|-----|
| 1  | 200172589       | Dieselmoottori                  | Diesel engine                        | 1   |
| 2  | 80D291          | Sähkömoottori                   | Electric motor                       | 1   |
| 3  | 200300495       | Kompressori                     | Compressor                           | 1   |
| 4  | 461010014       | Magneettikytkin                 | Magnetic clutch                      | 1   |
| 5  | 200301081       | Konepeti                        | Machine bed                          | 1   |
| 6  | FRE10VR         | Tärinäerisitin,<br>kartiojalka  | Anti vibration damper,<br>cone mount | 4   |
| 7  | 200204089       | Moniurahihna,<br>venyvä 8PK1392 | Multi groove belt,<br>stretch        | 1   |

|   |           |                                 |                               |   |
|---|-----------|---------------------------------|-------------------------------|---|
| 8 | 200204090 | Moniurahihna,<br>venyvä 6PK1431 | Multi groove belt,<br>stretch | 1 |
|---|-----------|---------------------------------|-------------------------------|---|

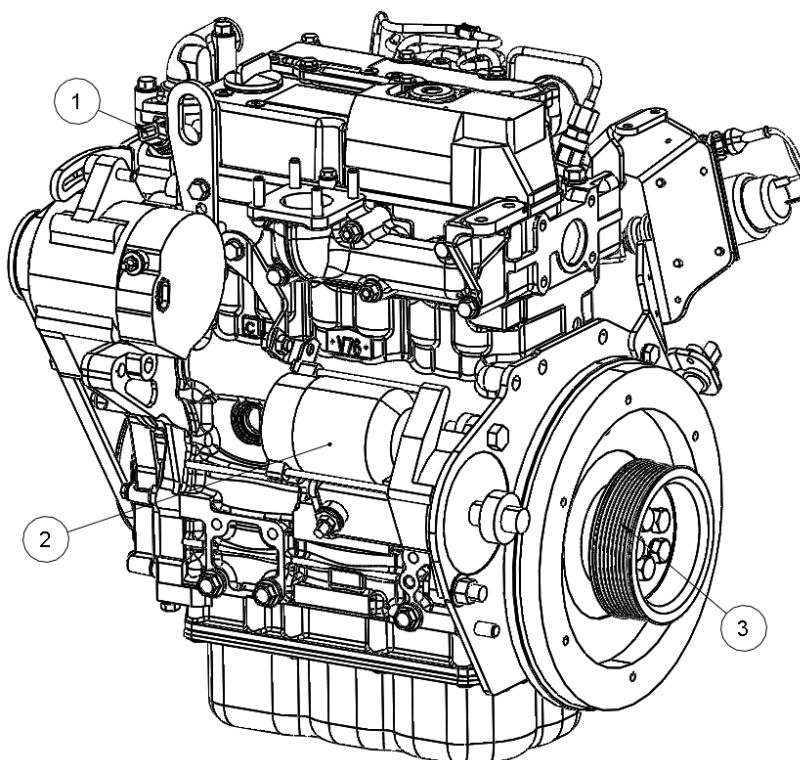


| ID | SPARE PART CODE | KUVAUS            | DESCRIPTION         | QTY |
|----|-----------------|-------------------|---------------------|-----|
| 1  | 200149548       | Kierroslukuanturi | RPM sensor          | 1   |
| 2  | YA200300907     | Lämpöanturi       | Temperature sensor  | 1   |
| 3  | YA200301401     | Stop solenoidi    | Stop solenoid       | 1   |
| 4  | YA200301602     | Kiilahihna        | V-belt              | 1   |
| 5  | 200300508       | Muoviosa          | Plastic part        | 1   |
| 6  | 200301552       | Teräslanka        | Steel wire          | 1   |
| 7  | 479010001       | Solenoidi, kaas   | Solenoid, gas       | 1   |
| 8  | YA200301128     | Hehkutulppa       | Glow plug           | 1   |
| 9  | YA200301131     | Laturi            | Alternator          | 1   |
| 10 | YA200301127     | Öljynpainekeytin  | Oil pressure switch | 1   |

## L7XE

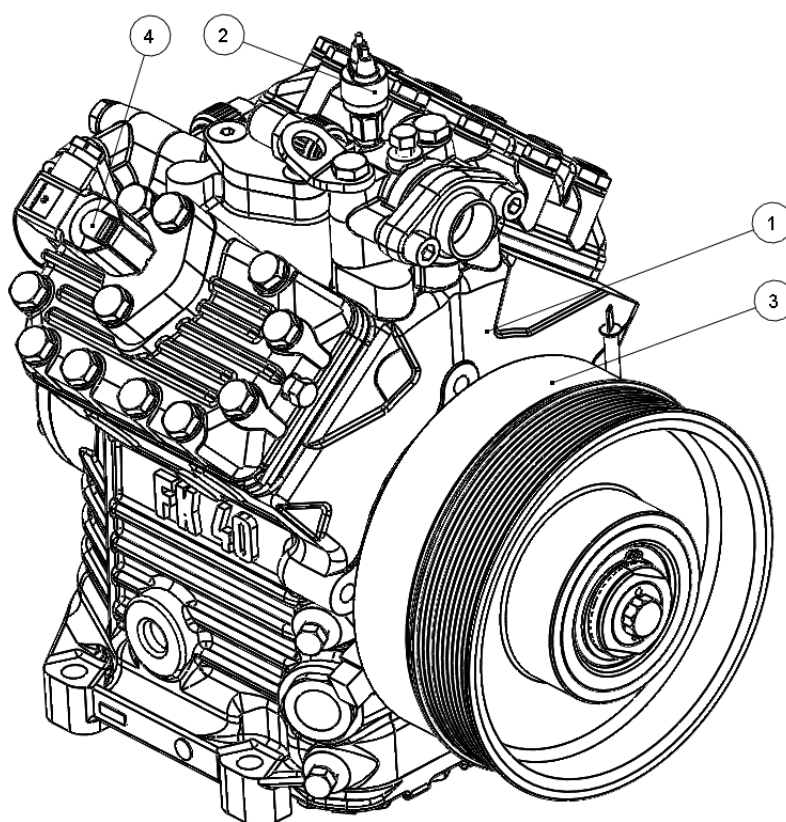


| ID | CODE      | SPARE PART CODE | KUVAUS           | DESCRIPTION   | QTY |
|----|-----------|-----------------|------------------|---------------|-----|
| 1  | 200106042 | 479010001       | Solenoidi, kaasu | Solenoid, gas | 1   |
| 2  |           | 200301552       | Teräslanka       | Steel wire    | 1   |
| 3  |           | 200300508       | Muoviosa         | Plastic part  | 1   |



| ID | SPARE PART CODE | KUVAUS           | DESCRIPTION        | QTY |
|----|-----------------|------------------|--------------------|-----|
| 1  | LC2100          | Lämpötila-anturi | Temperature sensor | 1   |

|   |             |                 |               |   |
|---|-------------|-----------------|---------------|---|
| 2 | YA200301129 | Starttimoottori | Starter motor | 1 |
| 3 | 200301109   | Hihnapyörä      | Pulley        | 1 |

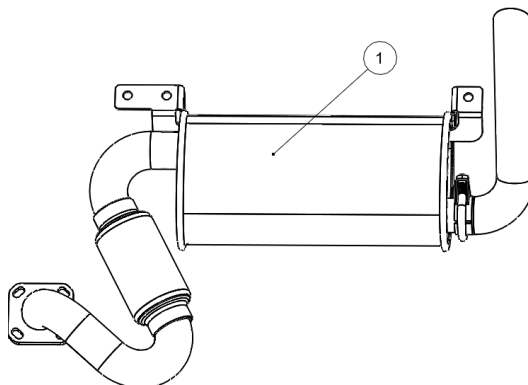


| ID | SPARE PART CODE | KUVAUS                              | DESCRIPTION                                  | QTY |
|----|-----------------|-------------------------------------|----------------------------------------------|-----|
| 1  | 200300495       | Kompressori,<br>BOCK, FKX40-655     | Compressor, BOCK,<br>FKX40-655               | 1   |
| 2  | 361010021       | Painekytin 28 / 21<br>bar, ylipaine | Pressure switch 28 / 21<br>bar, overpressure | 1   |
| 3  | 461010014       | Magneettikytin                      | Magnetic clutch                              | 1   |
| 4  | 200300697       | CR –venttiili ja kela<br>12 V DC    | CR –valve and coil<br>12 V DC                | 1   |

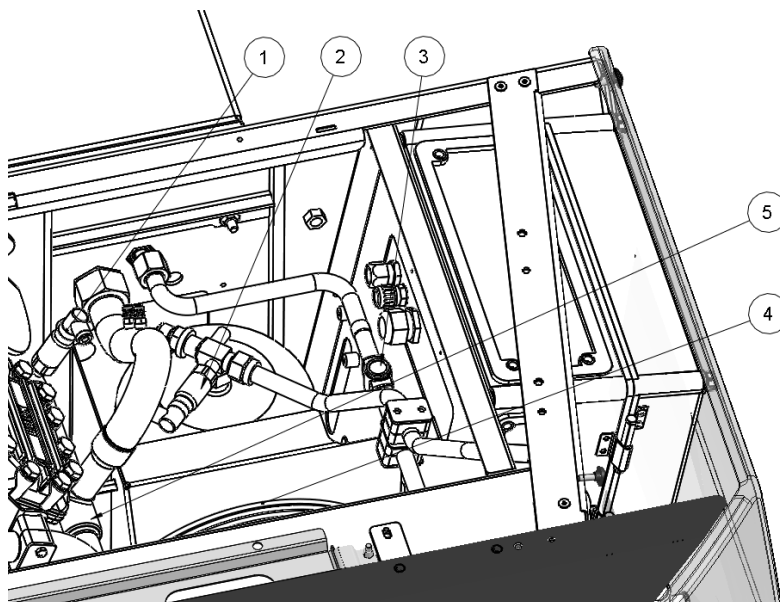
## L7XE

|  |           |                |               |   |
|--|-----------|----------------|---------------|---|
|  | 200301638 | Kela 12 V 6,5W | Coil 12V 6,5W | 1 |
|--|-----------|----------------|---------------|---|

### EXHAUST TUBE



| ID | SPARE PART CODE | KUVAUS         | DESCRIPTION | QTY |
|----|-----------------|----------------|-------------|-----|
| 1  | 200301082       | Äänenvaimennin | Muffler     | 1   |



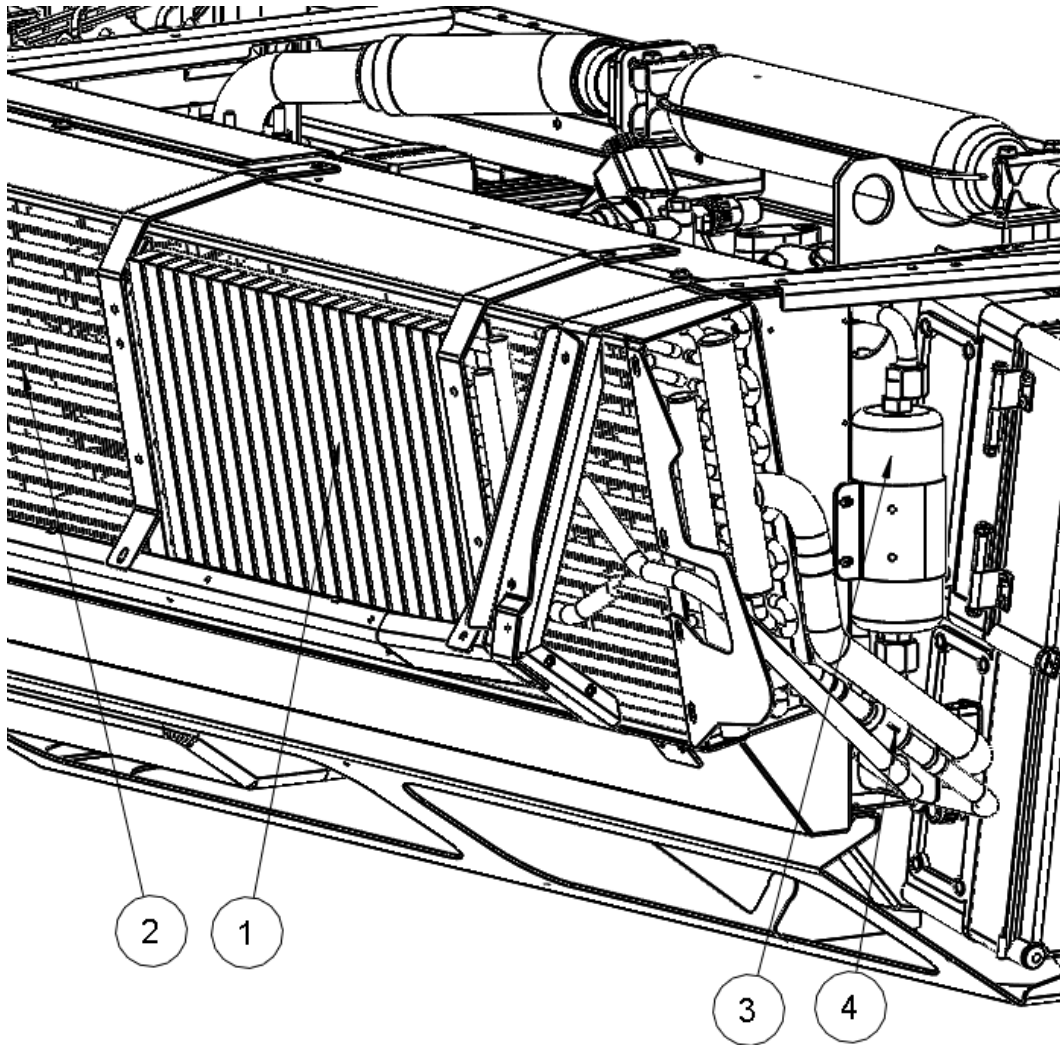
| ID | SPARE PART CODE | KUVAUS       | DESCRIPTION          | QTY |
|----|-----------------|--------------|----------------------|-----|
| 1  | 361010040       | Painelähetin | Pressure transmitter | 1   |
| 2  | 361010039       | Painelähetin | Pressure transmitter | 1   |
| 3  | 392010003       | Nestelasi    | Sight glass          | 1   |

|   |           |                                                 |                                     |   |
|---|-----------|-------------------------------------------------|-------------------------------------|---|
| 4 | 451010010 | Puhallin, aksiaali<br>Ø310, 230/400VAC,<br>510W | Fan, axialØ310,<br>230/400VAC, 510W | 1 |
| 5 | 36310001  | Painesäädinventtiili                            | Pressure regulator<br>valve         | 1 |

## L7XE

### LAUHDUTIN

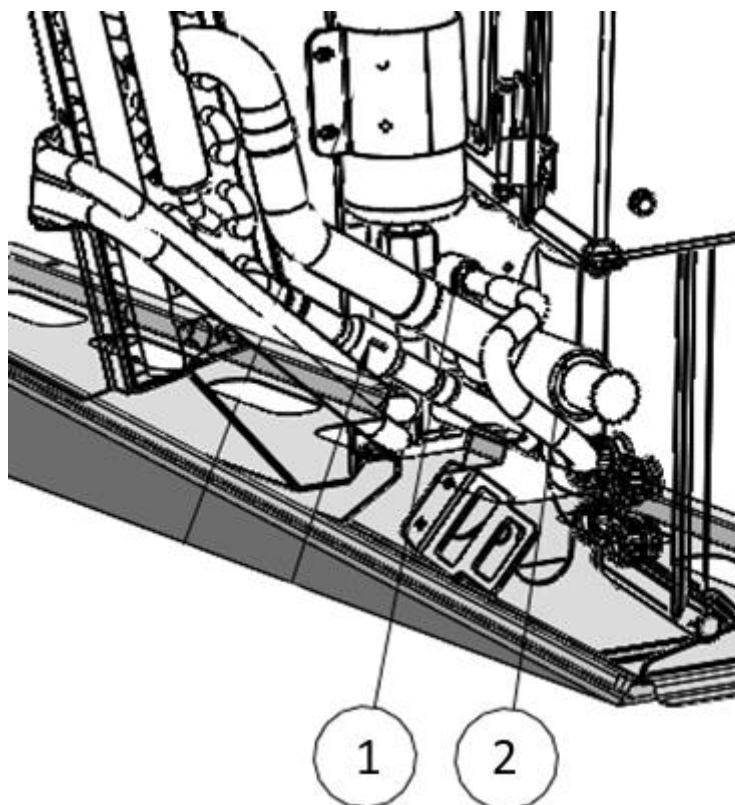
### CONDENSER



| ID | SPARE PART CODE | KUVAUS                           | DESCRIPTION                | QTY |
|----|-----------------|----------------------------------|----------------------------|-----|
| 1  | 200300758       | Lisälauhdutin                    | Sub-cooler                 | 1   |
| 2  | 90ds500         | Lauhdutin                        | Condenser                  | 1   |
| 3  | 382010003       | Kuivain Danfoss, DML 304         | Drier Danfoss, DML 304     | 1   |
| 4  | DAN0201018      | Takaiskuventtiili Ø5/8", NRV 16S | Check valve Ø5/8", NRV 16S | 1   |

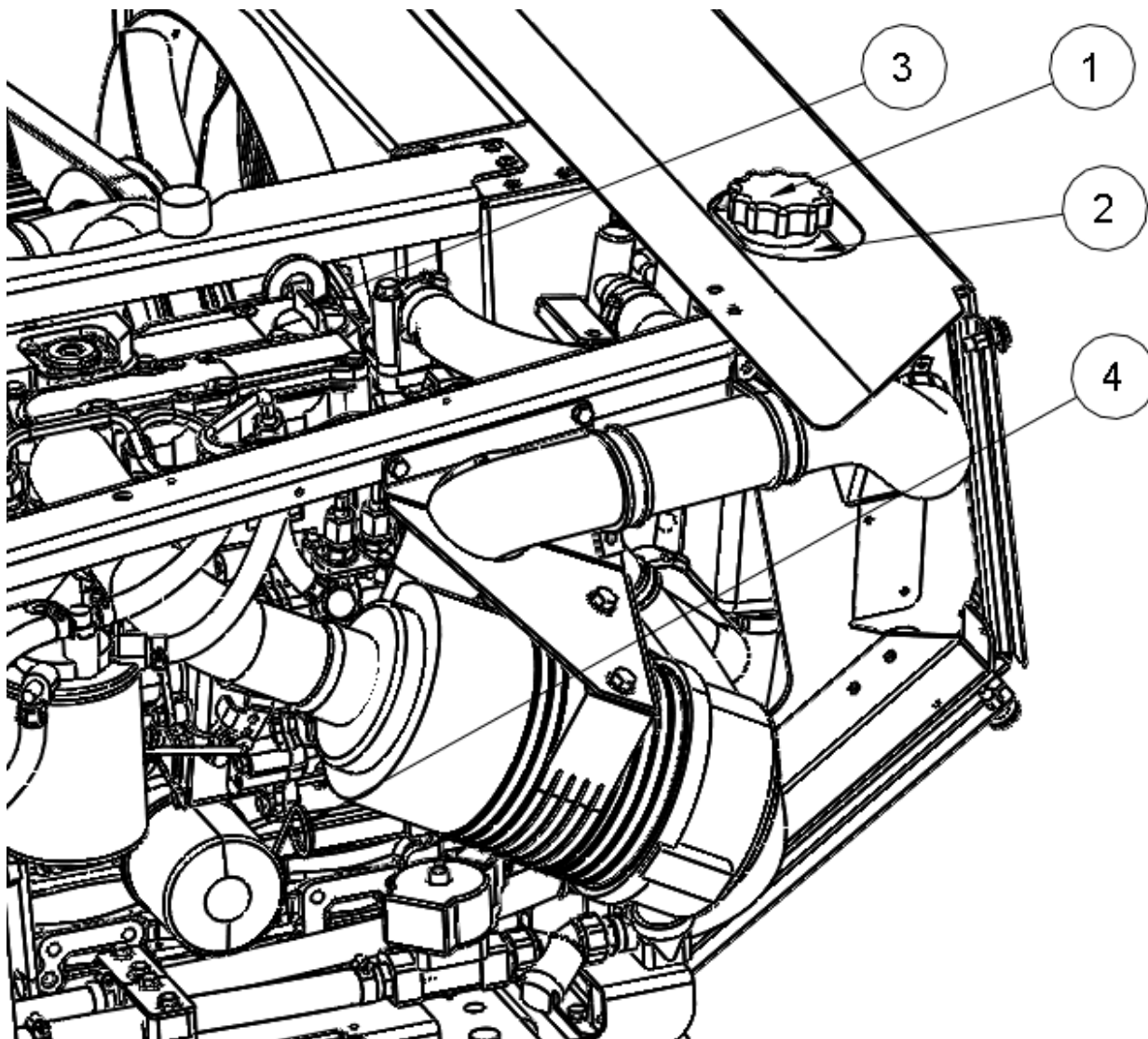
## HÖYRYSTIMEN JÄLKIASENNUS TARVIKKEET

## EVAPORATOR REPLACEMENT ACCESSORIES



| ID | SPARE PART CODE | KUVAUS                  | DESCRIPTION                   | QTY |
|----|-----------------|-------------------------|-------------------------------|-----|
| 1  | DAN0201132      | Painesäädinventtiili    | Pressure regulator valve      | 1   |
| 2  | DAN034L0099     | Lauhtumispaineen säädin | Condensing pressure regulator | 1   |

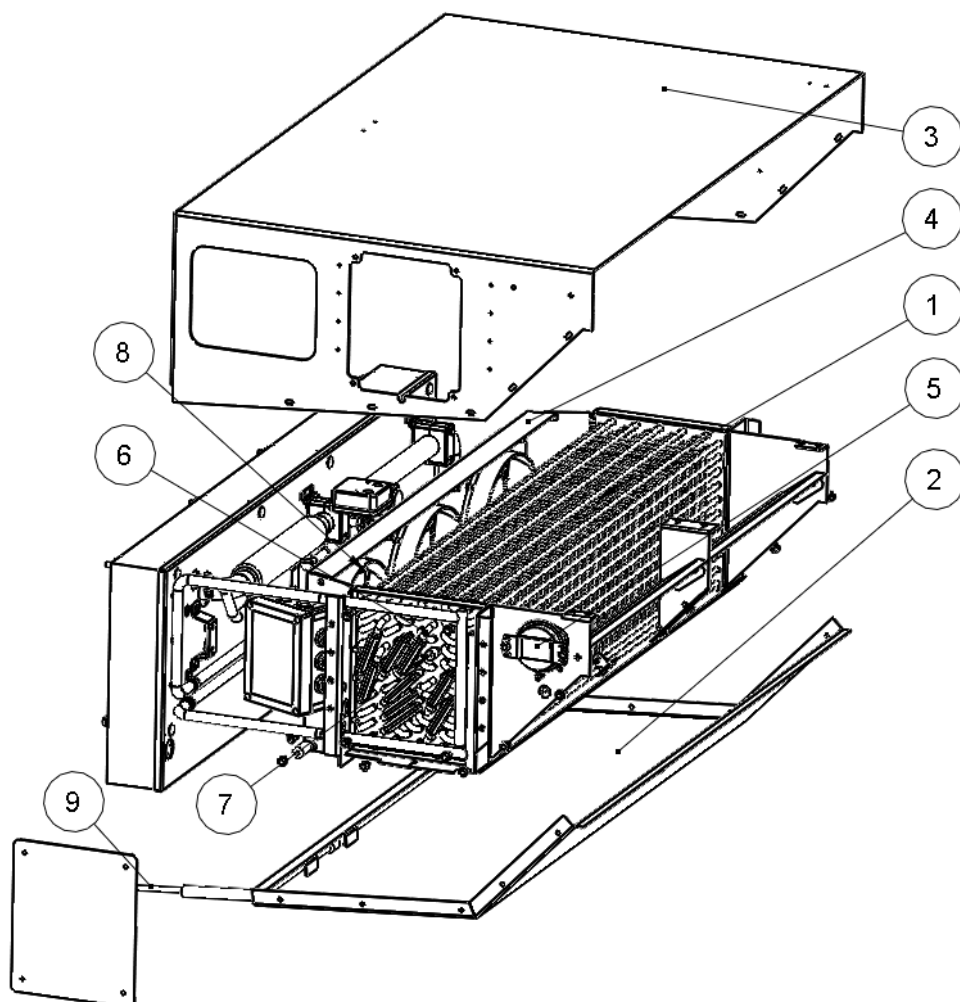
## L7XE



| ID | SPARE PART CODE | KUVAUS            | DESCRIPTION          | QTY |
|----|-----------------|-------------------|----------------------|-----|
| 1  | 4790101         | Korkki            | Cork                 | 1   |
| 2  | 4790100         | Ylivuotoastia     | Coolant reserve tank | 1   |
| 3  |                 | Öljyntäyttökorkki | Oil filler cork      | 1   |
| 4  | YA200301403     | Öljytikku         | Oil dipstick         | 1   |

**HÖYRYSTIN**

**EVAPORATOR**

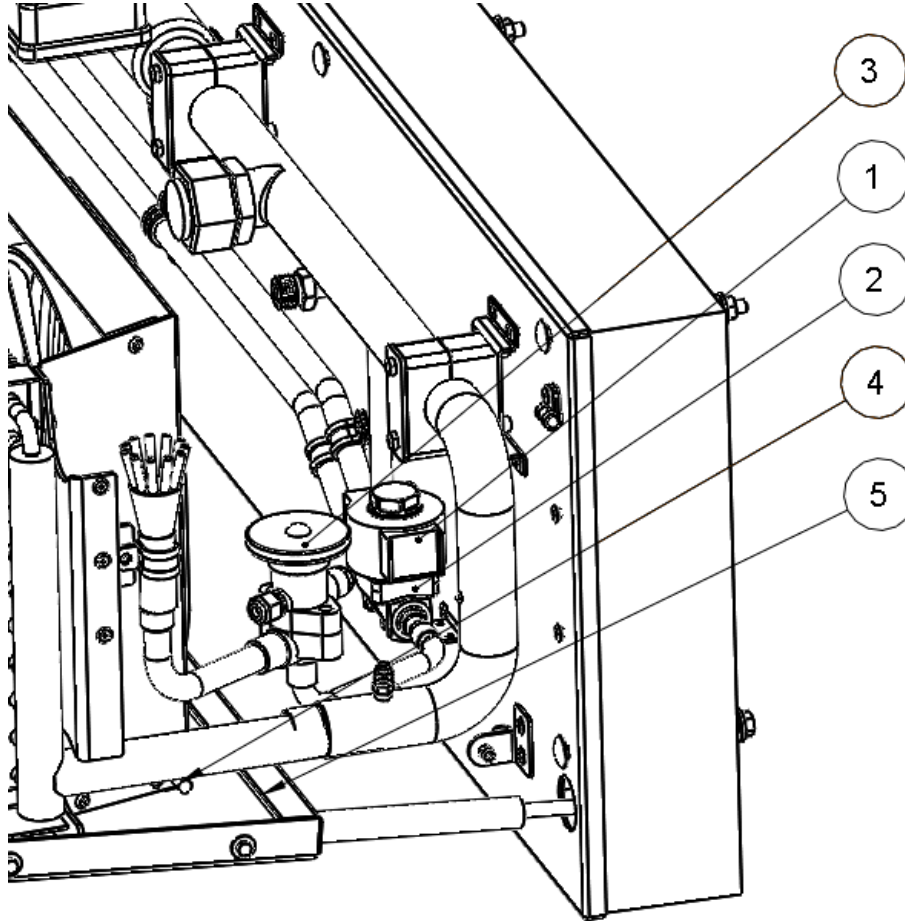


| ID | SPARE PART CODE | KUVAUS                           | DESCRIPTION                       | QTY |
|----|-----------------|----------------------------------|-----------------------------------|-----|
| 1  | pr242030073     | Höyrystin                        | Evaporator                        | 1   |
| 2  |                 | Tippalevy                        | Dip water plate                   | 1   |
| 3  | 80DFL471        | Höyrystimen kotelo               | Evaporator casing                 | 1   |
| 4  | 80df1-483       | Höyrystinpuhaltimien kotelo      | Evap. Fan housing                 | 1   |
| 5  | 361010020       | Paine-erokello                   | Pressure difference switch        | 1   |
| 6  | 6010278200      | Lämmitysvastus 3 x 320 W, L 1100 | Heater resistor 3 x 320 W, L 1100 | 3   |
| 7  | ELW0974         | Yliämpötermostaatti              | Overheat thermostat               | 1   |
| 8  | 451010006       | Puhallin, aksiaali               | Fan, axial                        | 3   |
| 9  | BHV8443033      | Lämmitysvastus 1 x 120W, L 620mm | Heater resistor 1 x 120W, L 620mm | 1   |
|    | 200127858       | Lämpötila-anturi                 | Temperature sensor                | 3   |

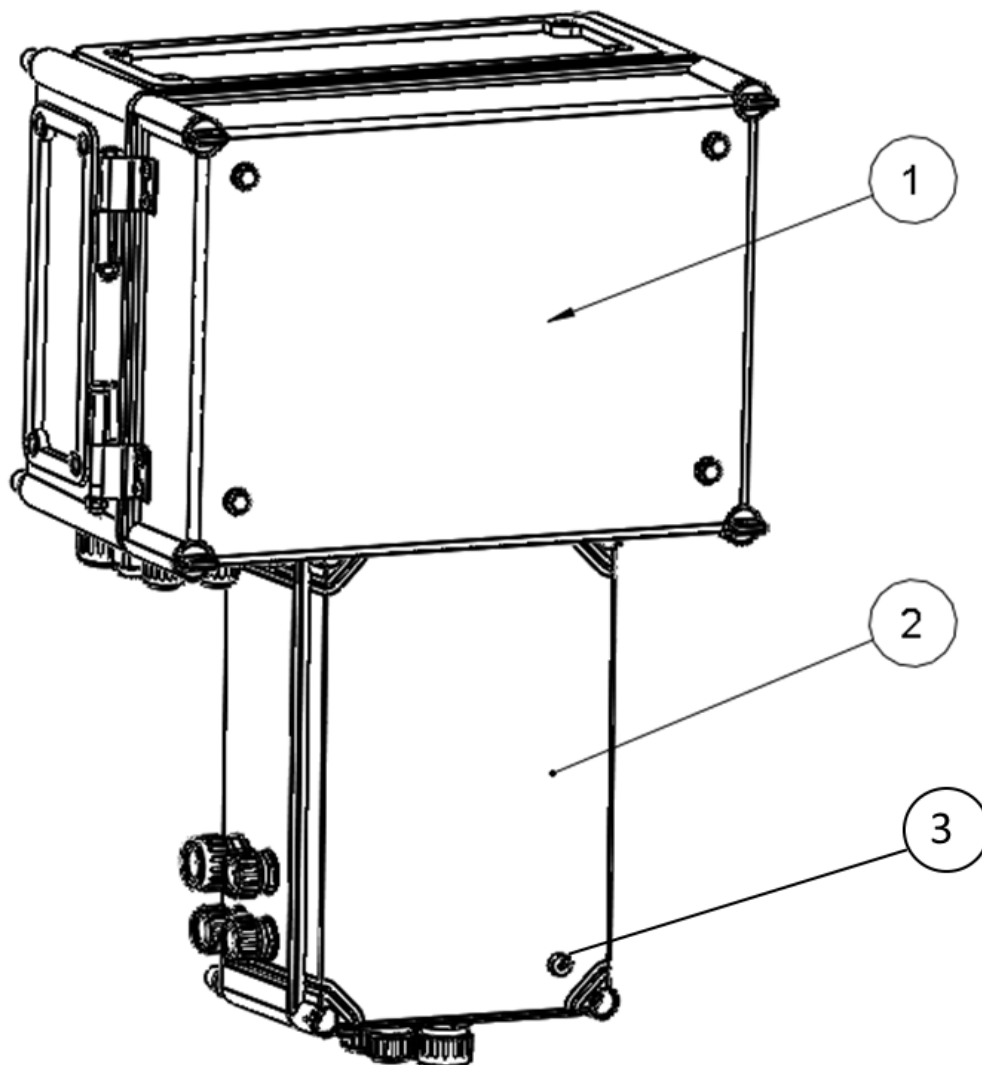
**L7XE**

HÖYRYSTIN

EVAPORATOR



| ID | SPARE PART CODE | KUVAUS                            | DESCRIPTION                        | QTY |
|----|-----------------|-----------------------------------|------------------------------------|-----|
| 1  | 394010003       | Kela                              | Coil                               | 1   |
| 2  | 394010006       | Magneettiventtiili                | Magnetic valve                     | 1   |
| 3  | 391010024       | Paisuntaventtiili                 | Expansion valve                    | 1   |
| 4  | 80DFL420        | Lämmitysvastus 1 x 100W, L 1040mm | Heater resistor 1 x 100W, L 1040mm | 1   |
| 5  | 200107144       | Lämmitysvastus 1 x 100W, L 1120mm | Heater resistor 1 x 100W, L 1120mm | 1   |



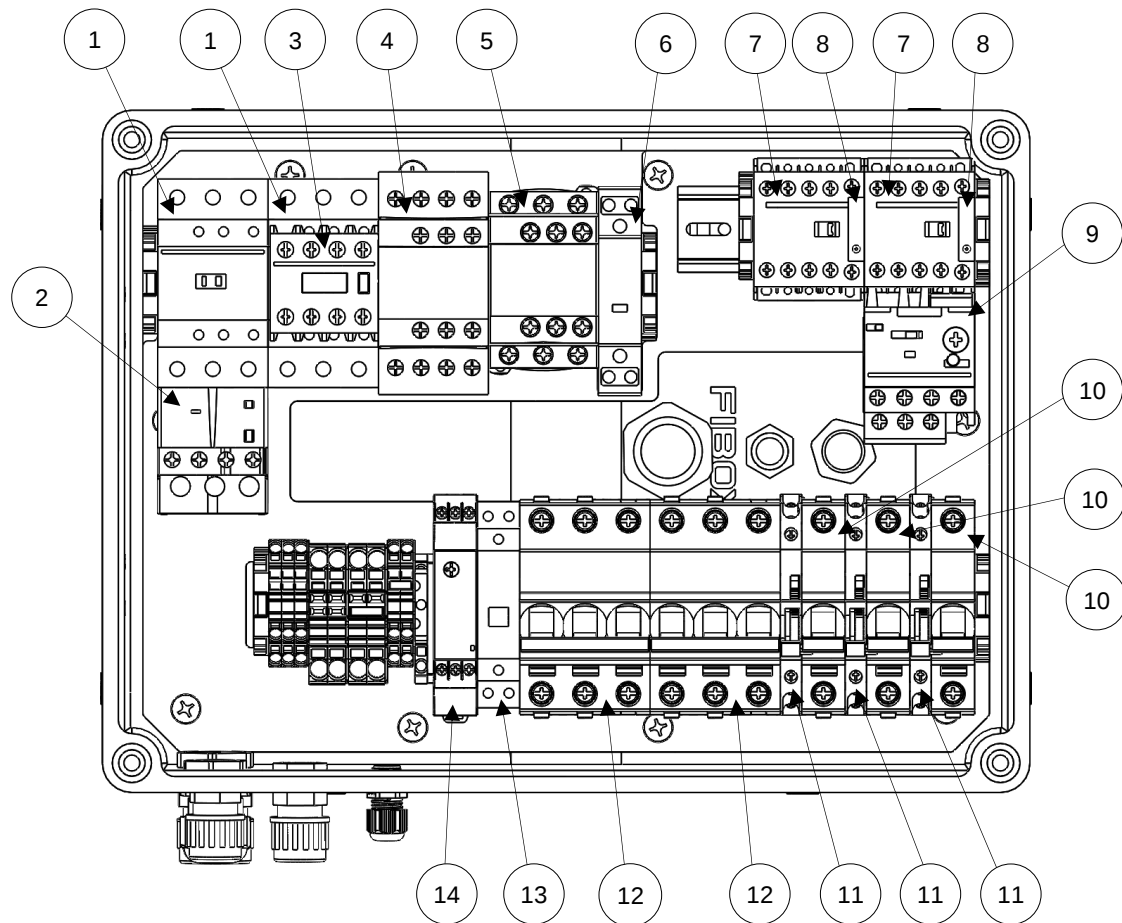
**200107273**

| ID | SPARE PART CODE | KUVAUS               | DESCRIPTION          | QTY |
|----|-----------------|----------------------|----------------------|-----|
| 1  | pr242030226     | Sähkökeskus L7, 400V | Switchboard L7, 400V | 1   |
| 2  | pr242030206     | Sähkökeskukset       | Switchboards         | 1   |
| 3  | ME93A403E       | Kytin                | Switch               | 1   |

# L7XE

## SÄHKÖKESKUS 400V

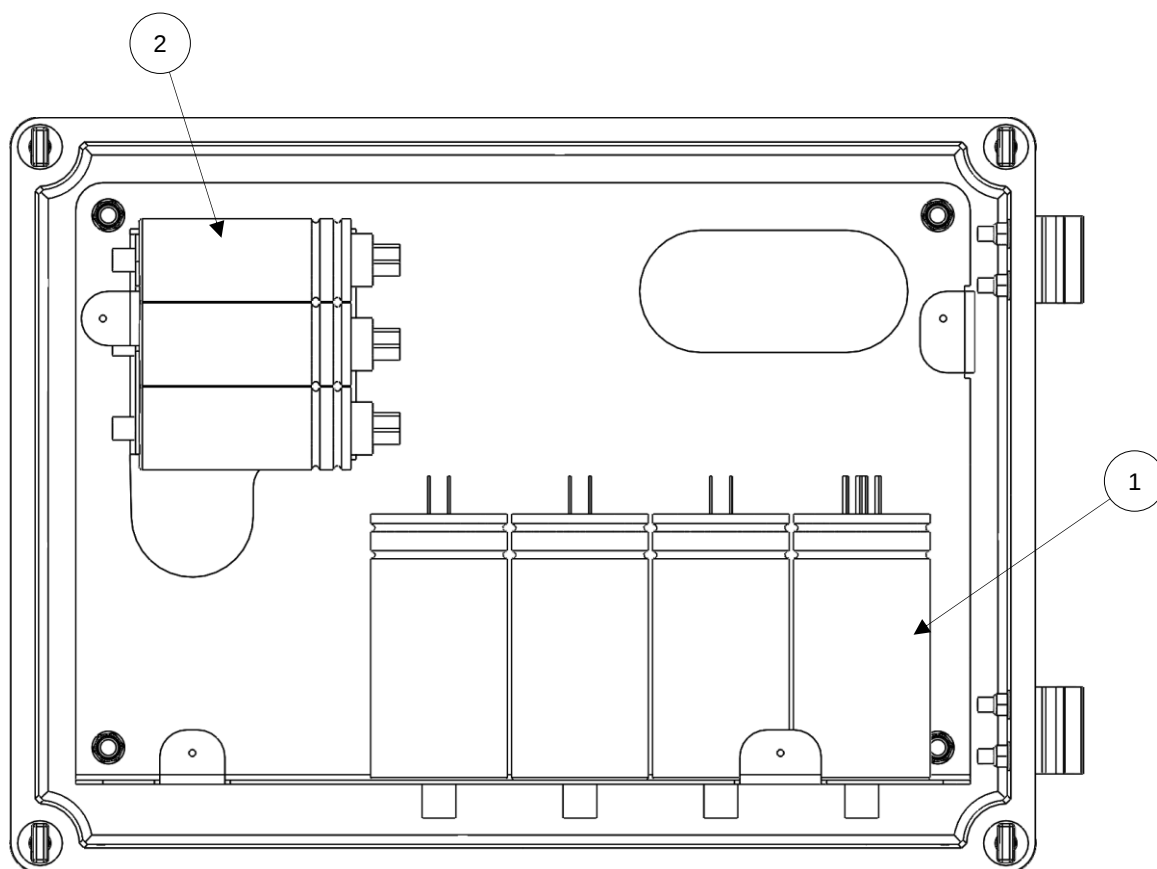
## SWITCH BOARD 400V



| ID | COMPONENT ID<br>KOJETUNNUS | SPARE<br>PART CODE | KUVAUS                                          | DESCRIPTION                                     | QTY |
|----|----------------------------|--------------------|-------------------------------------------------|-------------------------------------------------|-----|
| 1  | K1, K3                     | 54110017           | Kontaktori 3P, 12V DC,<br>11kW/400V 15HP/480V   | Contactori 3P, 12V DC,<br>11kW/400V 15HP/480V   | 2   |
| 2  | F10                        | 54210018           | Lämpörele 12 - 18A                              | Thermal overload relay                          | 1   |
| 3  | K3                         | 54120003           | Apukosketin, 1NO, 3NC,<br>690Vac                | Auxiliary contact, 1NO,<br>3NC, 690Vac          | 1   |
| 4  | K19                        | 54110038           | Suunnanvaihtokontaktori,<br>11kW                | Reversing contactor, 11kW                       | 1   |
| 5  | K17.2                      | 54110032           | Kontaktori 3P, 12V DC,<br>400Vac                | Contactori 3P, 12V DC,<br>400Vac                | 1   |
| 6  | K1.1                       | ESB2011            | Jännite- / Vaihevahti                           | Voltage- / phase relay                          | 1   |
| 7  | K21, K22                   | 54110012           | Kontaktori 3P, 3NO, 690Vac,<br>440V, 12A, 12Vdc | Contactori 3P, 3NO,<br>690Vac, 440V, 12A, 12Vdc | 2   |
| 8  | K21, K22                   | 54110030           | Diodi                                           | Diode                                           | 2   |
| 9  | F21                        | 54210016           | Lämpörele 0,85 – 1,3A                           | Thermal overload relay                          | 1   |
| 10 | F7.1, F7.2, F7.3           | 200301161          | Johdonsuojakatkaisija 1P, C,<br>10A, 6kA        | Circuit breaker 1P, C, 10A,<br>6kA              | 3   |
| 11 | F7.1, F7.2, F7.3           | 200301162          | Apukosketin, NO, NC,<br>ISD/iOF                 | Auxiliary contact, NO, NC,<br>ISD/iOF           | 3   |
| 12 | F8, F12                    | 56350007           | Johdonsuojakatkaisija 3P, C,<br>10A, 6kA        | Circuit breaker 3P, C, 10A,<br>6kA              | 2   |
| 13 | K3.1                       | 54110013           | Rele 12V 20A 250v                               | Relay 12V 20A 250v                              | 1   |
| 14 | K18                        | 54010001           | Rele, vaihevahti                                | Relay, phase control                            | 1   |

**KONDENSAATTORIT**

**CAPACITORS**



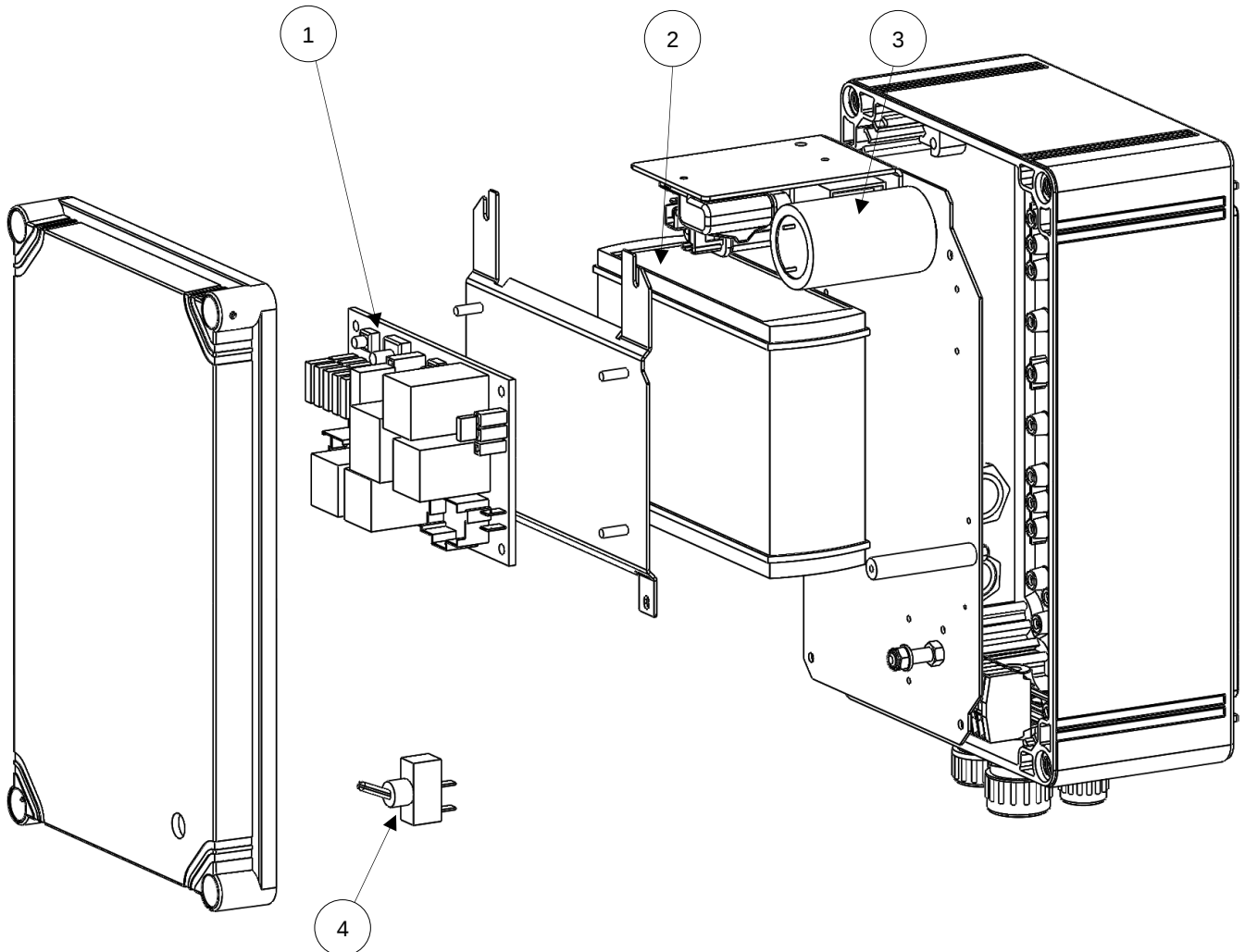
**200107336**

| ID | COMPONENT ID<br>KOJETUNNUS  | SPARE PART<br>CODE | KUVAUS                                | DESCRIPTION           | QTY |
|----|-----------------------------|--------------------|---------------------------------------|-----------------------|-----|
| 1  | C2, C3, C4, C5              | NOK32UF            | Kondensaattori, 32 $\mu$ F,<br>450Vac | Capacitor, 32 $\mu$ F | 4   |
| 2  | C6, C7, C8,<br>C9, C10, C11 | NOK8UF             | Kondensaattori, 8 $\mu$ F,<br>450Vac  | Capacitor, 8 $\mu$ F  | 6   |

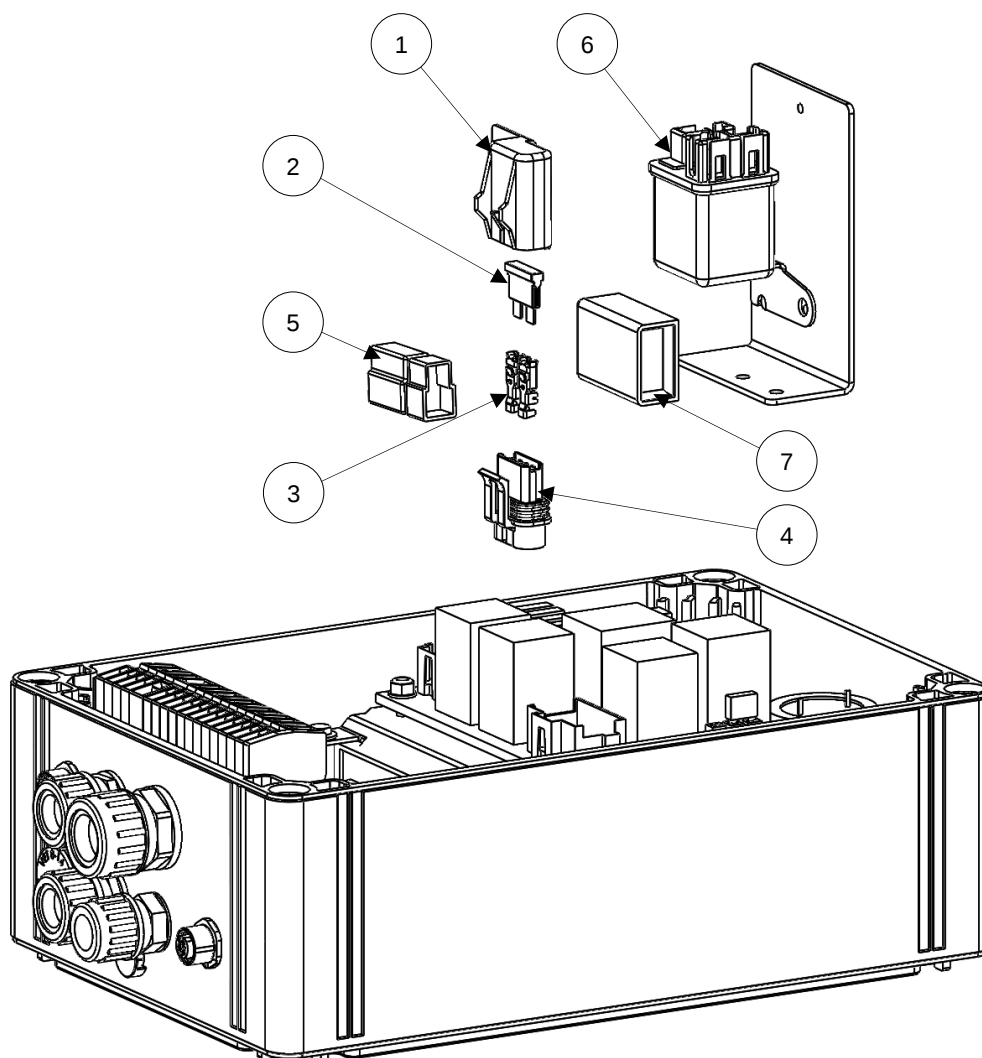
# L7XE

SÄHKÖKESKUS 12V

SWITCH BOARD 12V

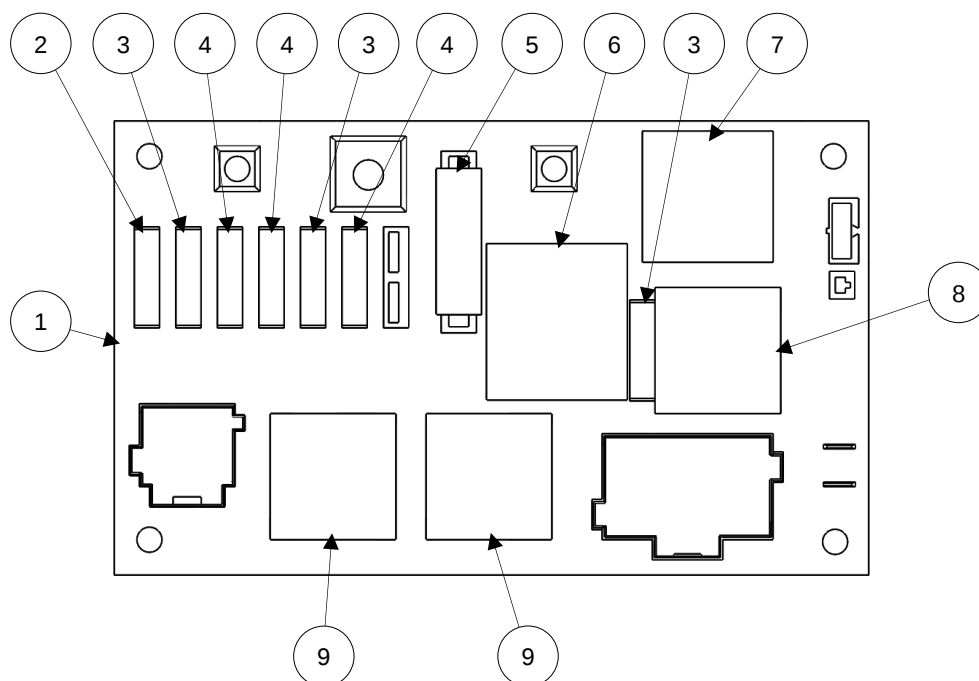


| ID | COMPONENT ID<br>KOJETUNNUS | SPARE PART<br>CODE | KUVAUS                  | DESCRIPTION                  | QTY |
|----|----------------------------|--------------------|-------------------------|------------------------------|-----|
| 1  | X6                         | 57020021           | Elektroniikkakortti 12V | Circuit board 12V            | 1   |
| 2  | XM1                        | 5751000            | Ohjainyksikkö IO-box    | Control unit IO-box          | 1   |
| 3  | C1                         | 57420012           | Kondensaattori          | Capacitor 47000 $\mu$ F, 25V | 1   |
| 4  | S1                         | ME93A403E          | Vipukytkin 15A, 230V    | Toggle switch 15A, 230V      | 1   |



| ID | COMPONENT ID<br>KOJETUNNUS | SPARE PART<br>CODE | KUVAUS                             | DESCRIPTION                 | QTY |
|----|----------------------------|--------------------|------------------------------------|-----------------------------|-----|
| 1  | F13                        | 56550025           | Sulakerasia                        | Fuse box                    | 1   |
| 2  | F13                        | 56550027           | Sulake, 40A                        | Fuse, 40A                   | 1   |
| 3  | F13                        | 56550026           | Sulakkeen liittimet                | Fuse connectors             | 2   |
| 4  | F13                        | 56550024           | Sulakekanta                        | Fuse holder                 | 1   |
| 5  | V2                         | YA200300842        | Diodi, 1.1A                        | Diode, 1.1A                 | 1   |
| 6  | K5                         | YA200301134        | Rele,<br>pysäytinsolenoidille      | Relay, stop<br>solenoid     | 1   |
| 7  | K5.1                       | YA200301132        | Pysäytinsolenoidin<br>aikarele, 1s | Timer, stop<br>solenoid, 1s | 1   |

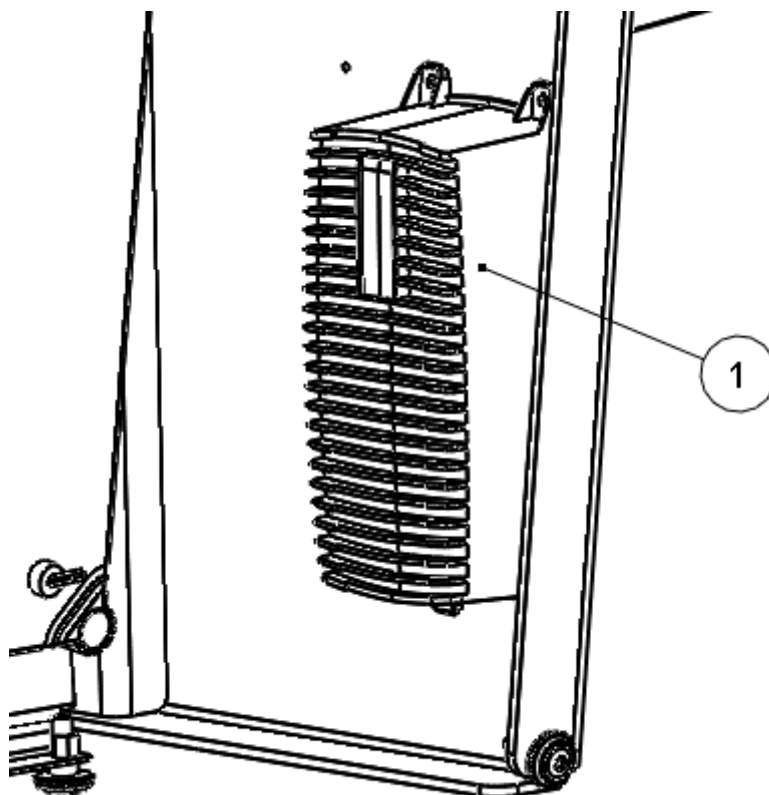
## L7XE



| ID | COMPONENT ID<br>KOJETUNNUS | SPARE PART<br>CODE | KUVAUS                  | DESCRIPTION          | QTY |
|----|----------------------------|--------------------|-------------------------|----------------------|-----|
| 1  | X6                         | 57020021           | Elektroniikkakortti 12V | Circuit board 12V    | 1   |
| 2  | F1                         | 56550015           | Sulake 3A               | Fuse 3A              | 1   |
| 3  | F2, F5, F7                 | 56550005           | Sulake 10A              | Fuse 10A             | 3   |
| 4  | F3, F4, F6                 | 56550006           | Sulake 15A              | Fuse 15A             | 3   |
| 5  | F8                         | 56550009           | Sulake 50A              | Fuse 50A             | 1   |
| 6  | K4                         | 57020026           | Rele 12V 70A            | Relay 12V 70A        | 1   |
| 7  | H1                         | 57020024           | Summeri                 | Buzzer               | 1   |
| 8  | K30                        | 54110009           | Rele 12V, sulakkeella   | Relay 12V, with fuse | 1   |
| 9  | K11, K13                   | ALF0332204101      | Rele 12V                | Relay 12V            | 2   |

AKKULATURI

BATTERY CHARGER

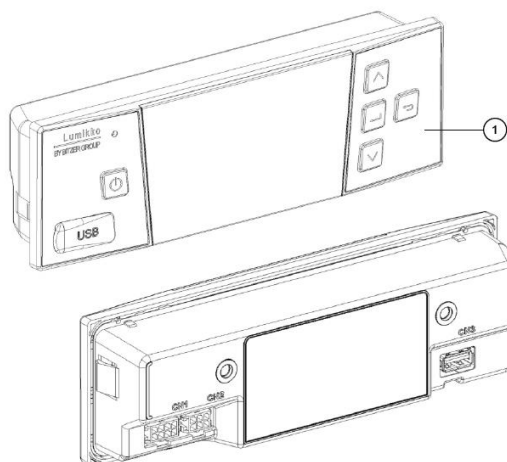


| ID | SPARE PART CODE | KUVAUS                | DESCRIPTION                | QTY |
|----|-----------------|-----------------------|----------------------------|-----|
| 1  | 57110007        | Akkulaturi12Vdc / 13A | Battery charger12Vdc / 13A | 1   |

## L7XE

### KÄYTTÖPANEELI LC3UP

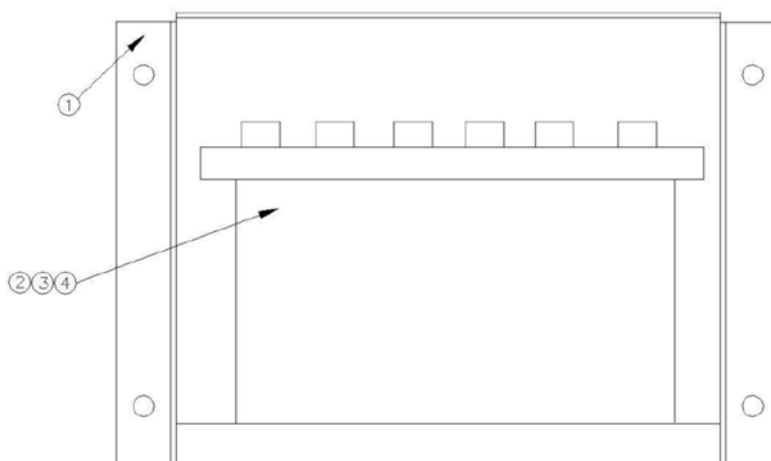
### USER PANEL LC3UP



| ID | SPARE PART CODE | KUVAUS              | DESCRIPTION      | QTY |
|----|-----------------|---------------------|------------------|-----|
| 1  | PR243030100     | Käyttöpaneeli LC3UP | User panel LC3UP | 1   |
| 2  |                 | Can- väyläkaapeli   | Can- bus cable   | 1   |
| 3  |                 | Adapteri            | Adapter          | 1   |

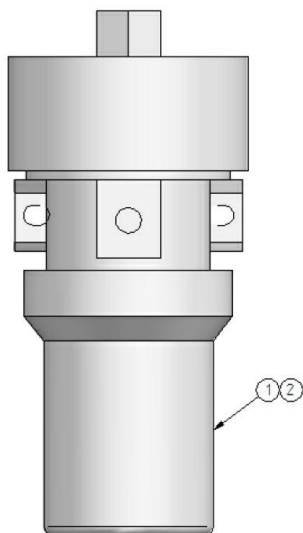
### AKKU

### BATTERY



## 123123123

| ID | SPARE PART CODE | KUVAUS           | DESCRIPTION        | QTY |
|----|-----------------|------------------|--------------------|-----|
| 1  | 200211808       | Akkukotelo+kansi | Battery case+ lock | 1   |
| 2  | 479010009       | Akku             | Battery            | 1   |
| 3  | K25P            | Akkukenkä + napa | Cable clip + pole  | 1   |
| 4  | K25M            | Akkukenkä + napa | Cable clip + pole  | 1   |

**POLTTOAINEPUMPPU**
**FUEL PUMP**


| ID | SPARE PART CODE | KUVAUS           | DESCRIPTION | QTY |
|----|-----------------|------------------|-------------|-----|
| 1  | 48522           | Polttoainepumppu | Fuel pump   | 1   |
| 2  | 446010016       | Liitin           | Connector   | 2   |





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