

Quick start guide

SolvisLea 7/10 Pro

Installation aid for electrical installation



1 SolvisLea 7 Pro with SolvisBen/SolvisMax Hybrid

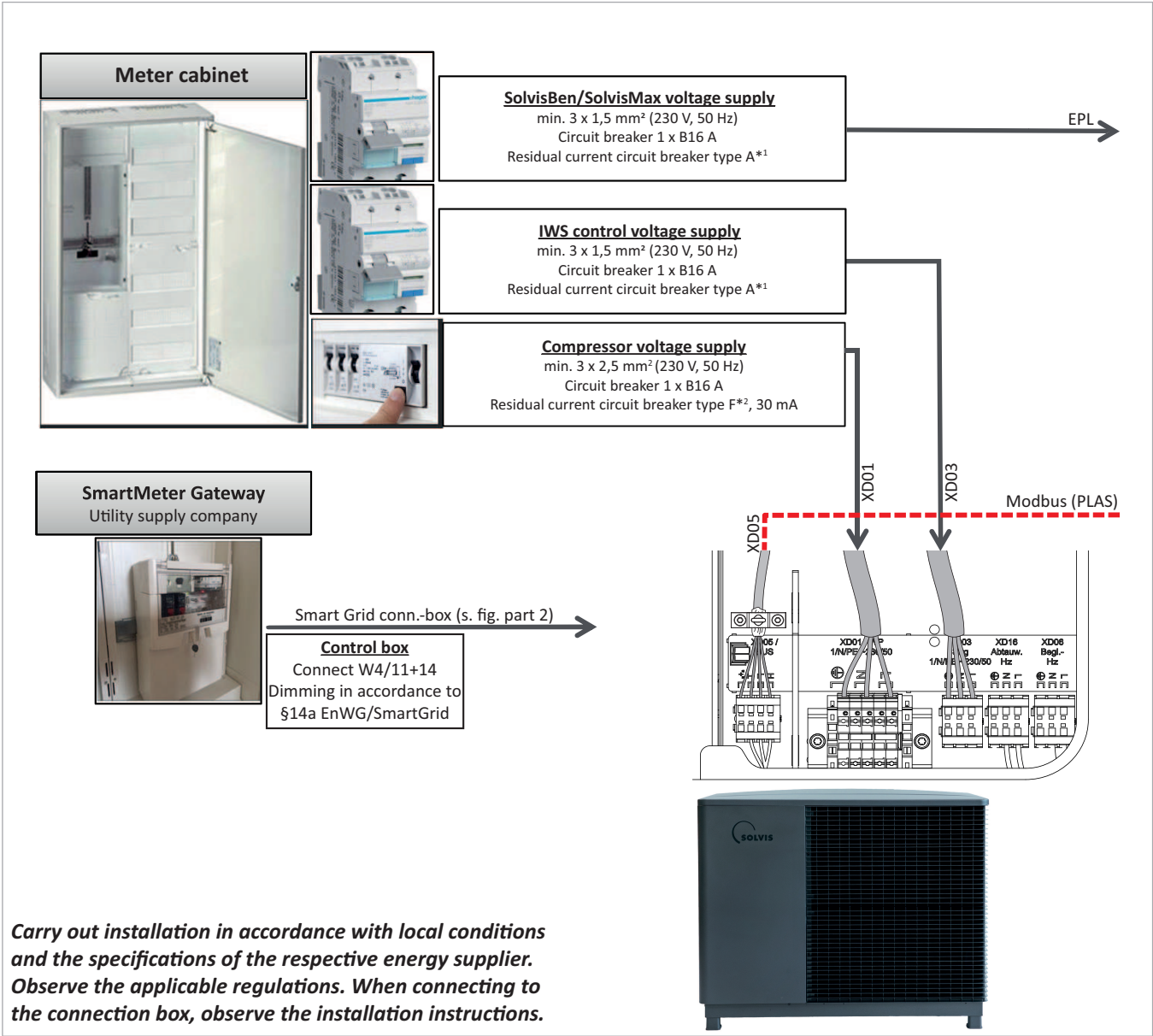


Fig. 1: SolvisBen/SolvisMax Hybrid installation aid with SolvisLea 7 Pro and utility supply company connection - Part 1

- Voltage supply
- - - Sensor, communication or bus line
- i** A bridge between XD01 and XD03 is installed at delivery in the connection area of SolvisLea Pro. This bridge must be removed (see → "Installation SolvisLea Pro" (MAL-LEA-PRO), "Electrical connection" section).
- PL Mains circuit board
EPL Expansion board
*¹ Residual current circuit breakers (RCDs) can be used together for the labelled assemblies depending on the rated current. Separate RCDs are recommended for fail-safe operation.
*² Do not use the Eaton FRCDM-25/4/003-G/BFQ residual current circuit breaker (SOLVIS art. no. 32448) with SolvisLea Pro, as this may result in false tripping.

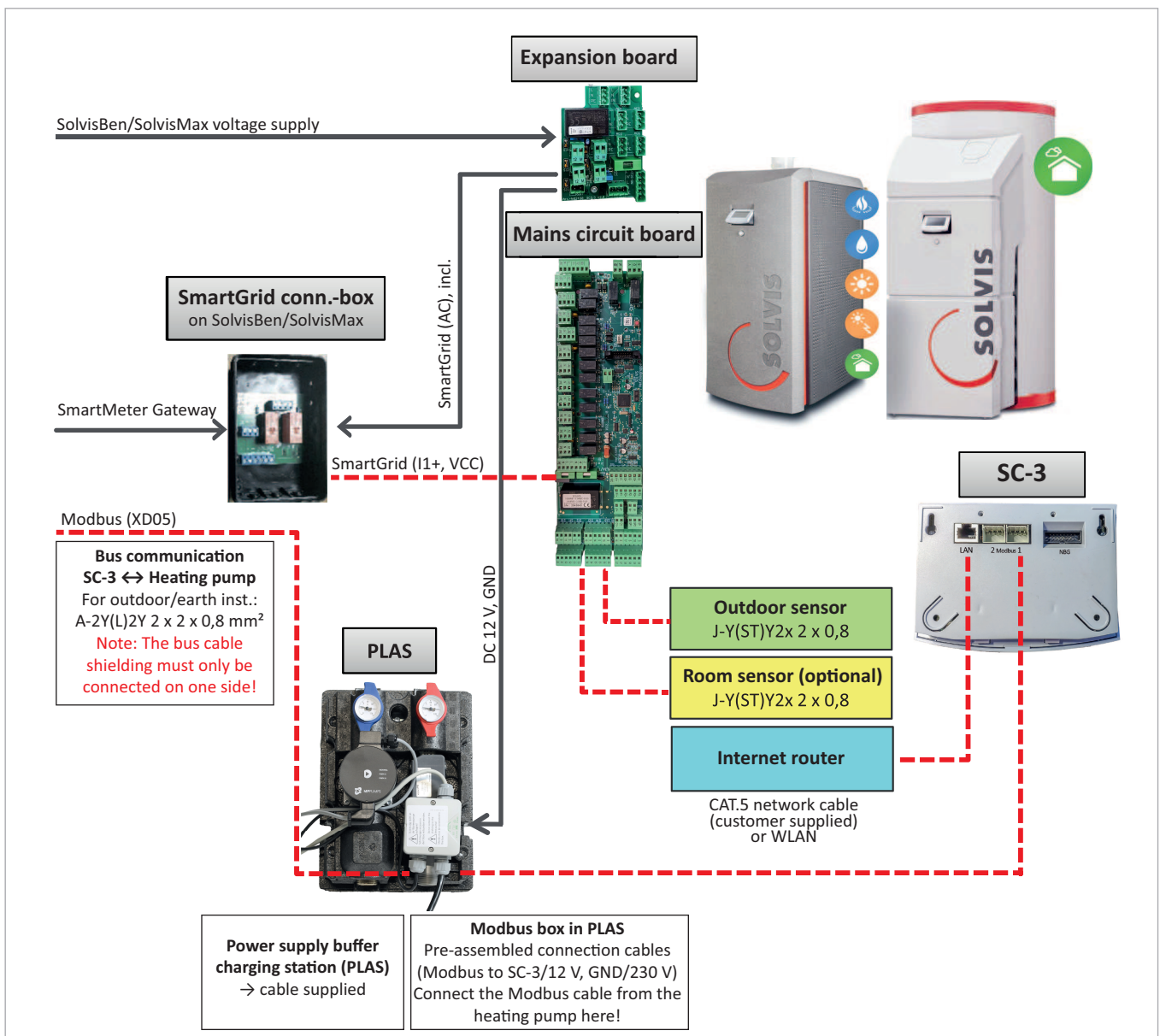


Fig. 2: SolvisBen/SolvisMax Hybrid installation aid with SolvisLea 7 Pro and utility supply company connection - Part 2

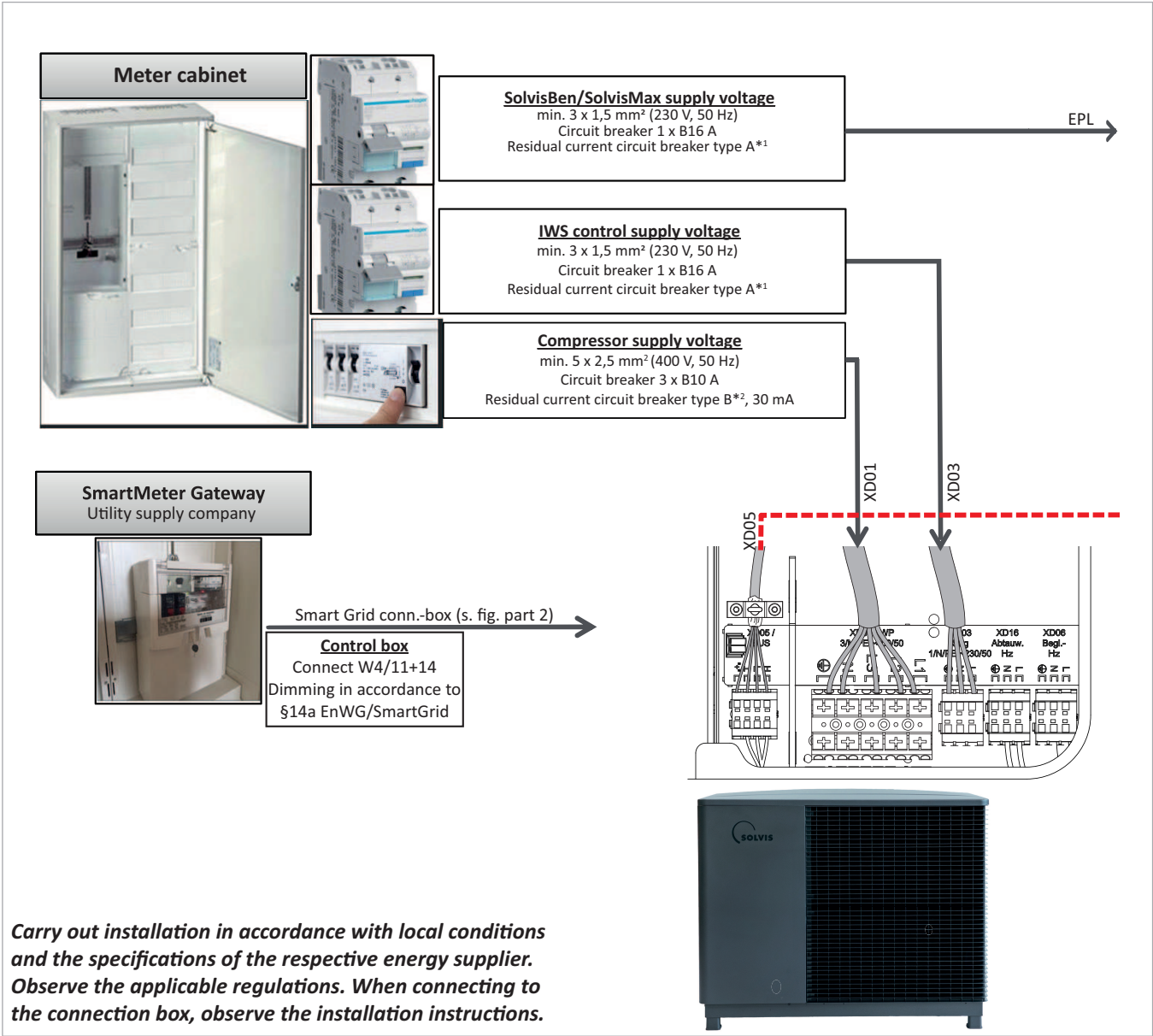
This diagram is not a substitute for detailed technical planning. To ensure the correct function of the system, our installation, operating and maintenance instructions must be followed. When establishing a network connection, do not rely solely on the information provided – always consult the network operator.

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Assignment table (mains board/extension board/Smart Grid board) and connection diagram see → chapter "Electrical connection" in the documents system diagram SolvisMax (ALS-MAX-7) or system diagram SolvisBen (ALS-BEN).

2 SolvisLea 10 Pro with SolvisBen/SolvisMax Hybrid



- Voltage supply
- - - - - Sensor, communication or bus line
- i** A bridge between XD01 and XD03 is installed at delivery in the connection area of SolvisLea Pro. This bridge must be removed (see → "Installation SolvisLea Pro" (MAL-LEA-PRO), "Electrical connection" section).
- PL Mains circuit board
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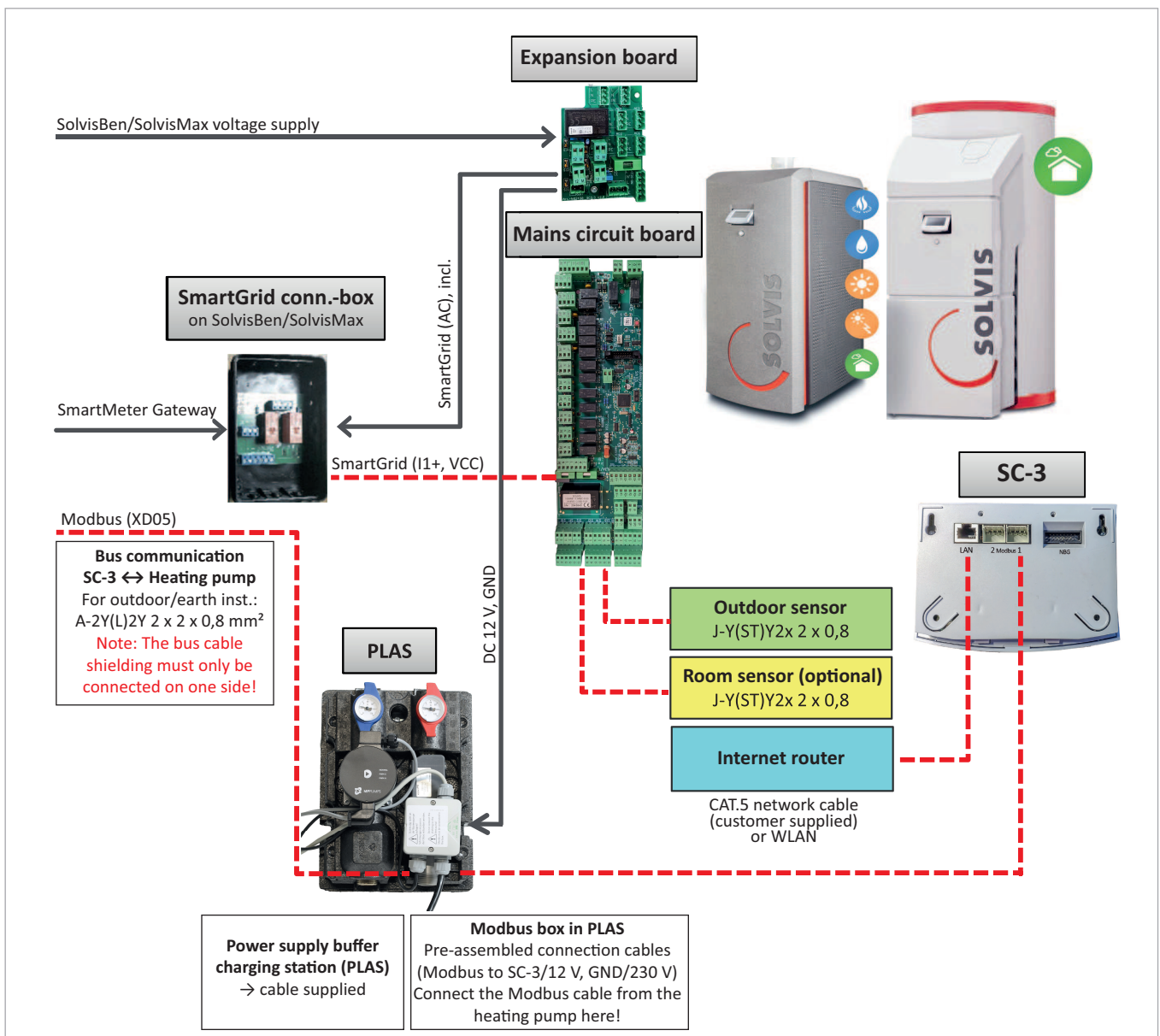


Fig. 4: SolvisBen/SolvisMax Hybrid installation aid with SolvisLea 10 Pro and utility supply company connection - Part 2

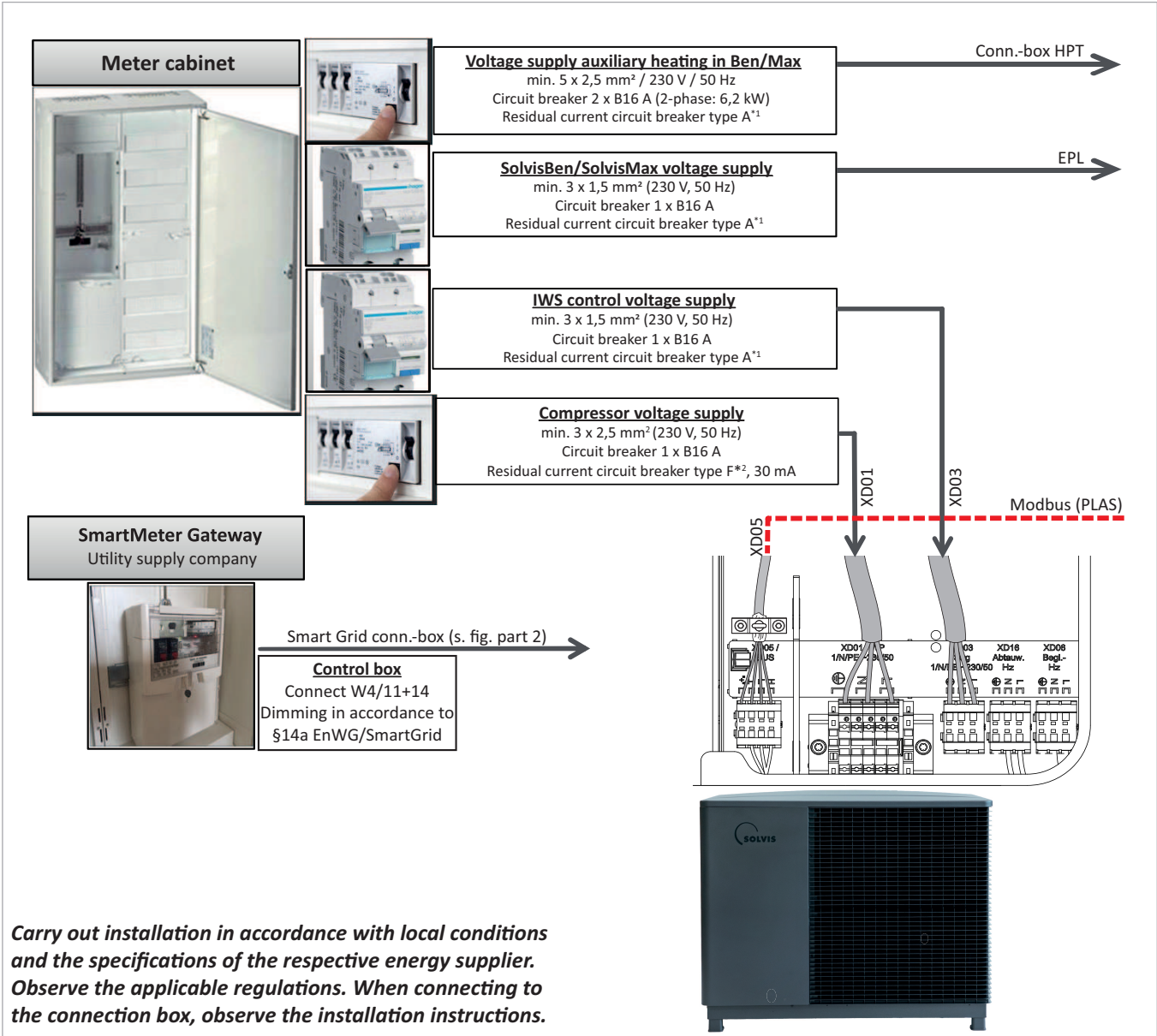
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3 SolvisLea 7 Pro with SolvisBen WP/SolvisMax Solo



Carry out installation in accordance with local conditions and the specifications of the respective energy supplier. Observe the applicable regulations. When connecting to the connection box, observe the installation instructions.

— Voltage supply
- - - Sensor, communication or bus line

A bridge between XD01 and XD03 is installed at delivery in the connection area of SolvisLea Pro. This bridge must be removed if the power supply to the control unit and compressor is separate (in accordance with this document) (see → "Installation SolvisLea Pro" (MAL-LEA-PRO), "Electrical connection" section).

- PL Mains circuit board
EPL Expansion board
- *1 Residual current circuit breakers (RCDs) can be used together for the labelled assemblies depending on the rated current. Separate RCDs are recommended for fail-safe operation.
- *2 Do not use the Eaton FRCDM-25/4/003-G/BFQ residual current circuit breaker (SOLVIS art. no. 32448) with SolvisLea Pro, as this may lead to false tripping.
- *3 In contrast to the illustrated PLAS-WP-WM (2-pipe), a 1-pipe PLAS can be installed (e.g. with SolvisBen WP). In this case, no Modbus box is installed on the PLAS.

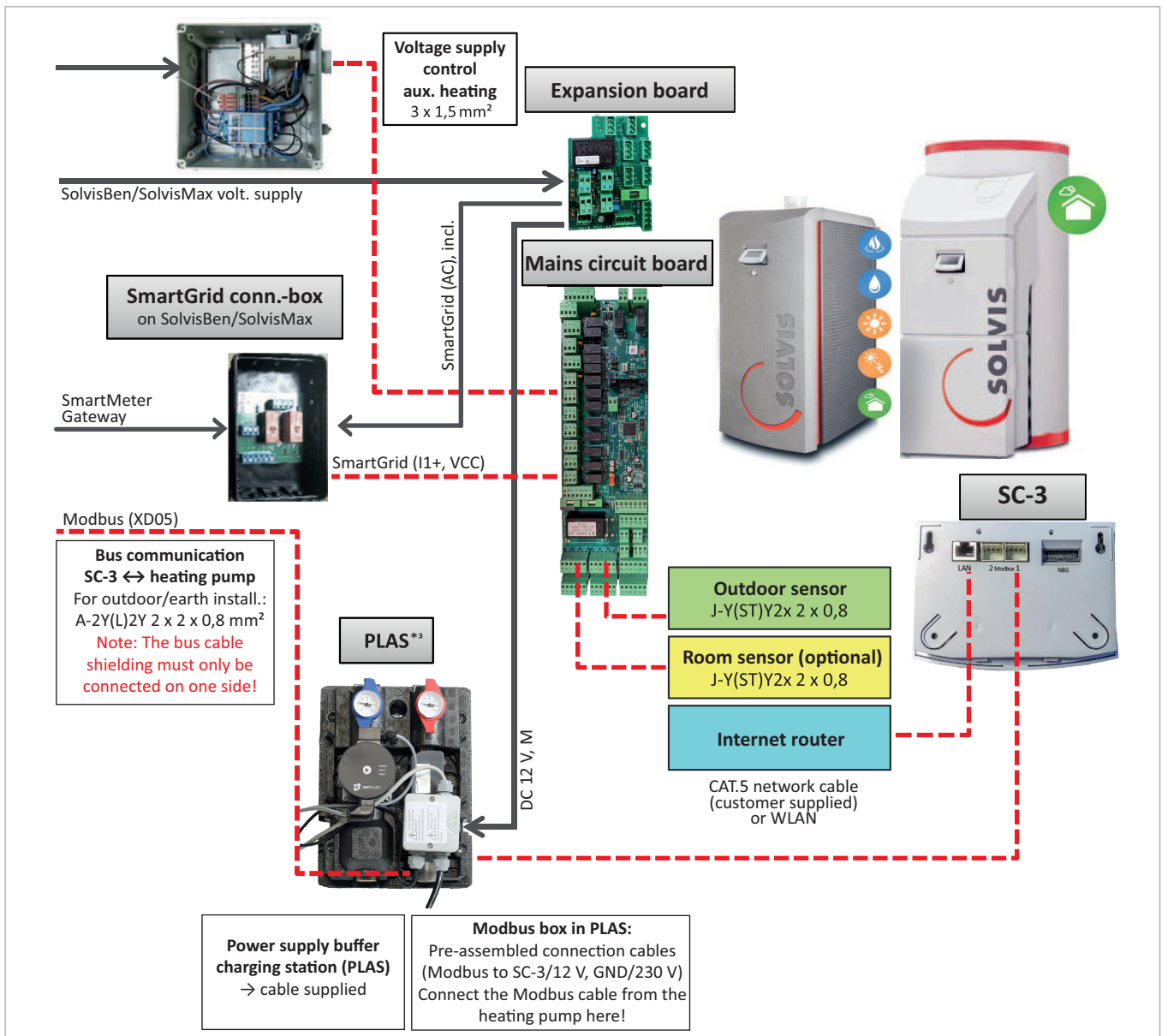


Fig. 6: SolvisBen WP/SolvisMax Solo installation aid with SolvisLea 7 Pro and utility supply company connection - Part 2

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Assignment table (mains board/extension board/Smart Grid board) and connection diagram see → chapter "Electrical connection" in the documents system diagram SolvisMax (ALS-MAX-7) or system diagram SolvisBen (ALS-BEN).

4 SolvisLea 10 Pro with SolvisBen WP/SolvisMax Solo

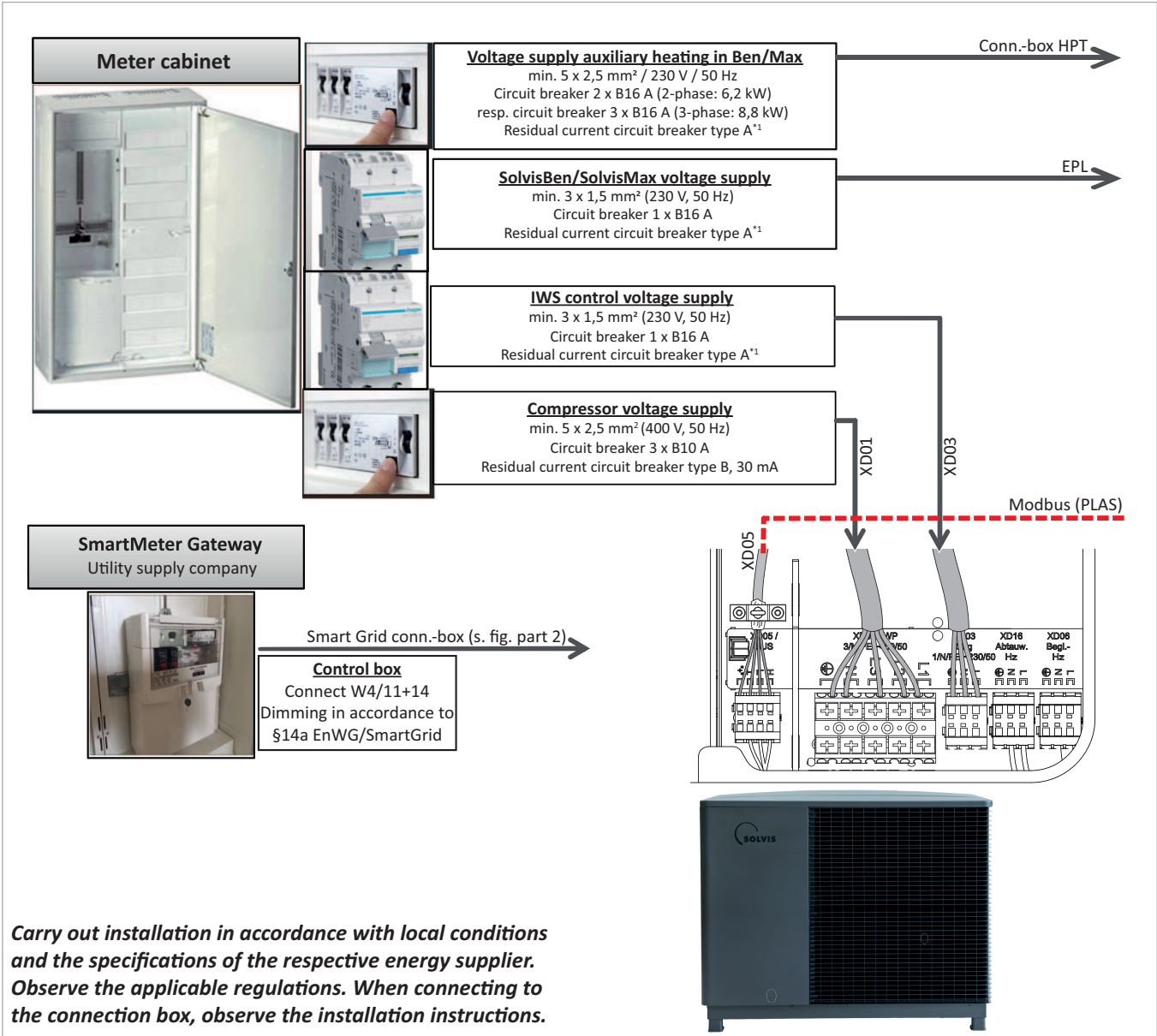


Fig. 7: SolvisBen WP/SolvisMax Solo installation aid with SolvisLea 10 Pro and utility supply company connection - Part 1

- Voltage supply
- - - Sensor, communication or bus line
- i** A bridge between XD01 and XD03 is installed at delivery in the connection area of SolvisLea Pro. This bridge must be removed if the power supply to the control unit and compressor is separate (in accordance with this document) (see → "Installation SolvisLea Pro" (MAL-LEA-PRO), "Electrical connection" section).
- PL** Mains circuit board
EPL Expansion board
- *1** Residual current circuit breakers (RCDs) can be used together for the labelled assemblies depending on the rated current. Separate RCDs are recommended for fail-safe operation.
- *2** Do not use the Eaton FRCDM-25/4/003-G/BFQ residual current circuit breaker (SOLVIS art. no. 32448) with SolvisLea Pro, as this may lead to false tripping.
- *3** In contrast to the illustrated PLAS-WP-WM (2-pipe), a 1-pipe PLAS can be installed (e.g. with SolvisBen WP). In this case, no Modbus box is installed on the PLAS.

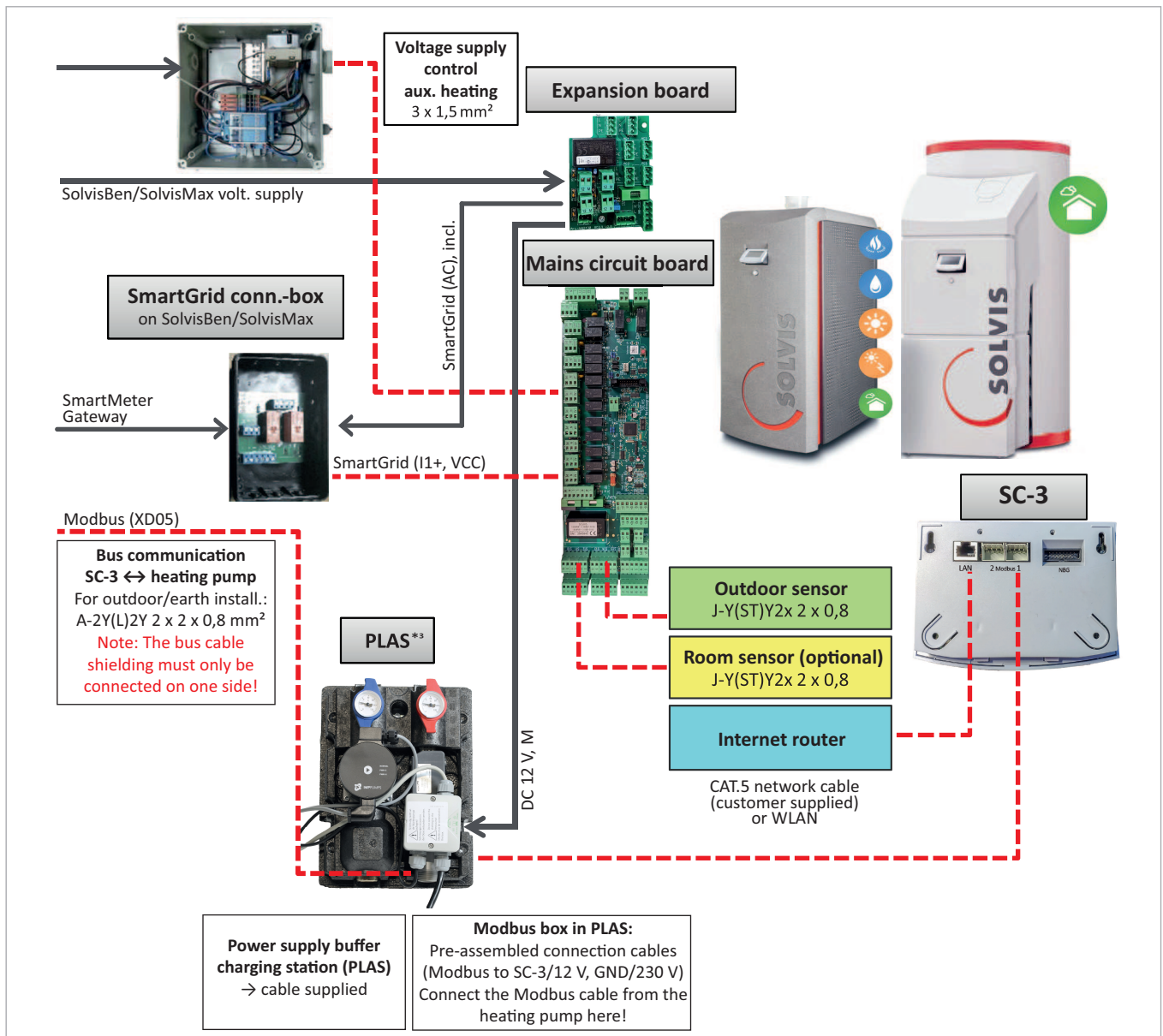


Fig. 8: SolvisBen WP/SolvisMax Solo installation aid with SolvisLea 10 Pro and utility supply company connection - Part 2

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5 Electrical data

Designation	Unit	SolvisLea 7 Pro	SolvisLea 10 Pro
Max. power consumption (without emergency heating)	kW	3,68	6,83
Power consumption of emergency heating* (installed on the buffer cylinder for HP systems)	kW	6.2 (two-stage, connection 2L/N/PE)	6.2 (two-stage, connection 2L/N/PE) 8.8 (three-stage, connection 3L/N/PE)
Protection class	-	IP14B	
Frequency	Hz	50	
Max. operating current	A	15,5	9,7
Compressor starting current	A	8.4	5,2
Compressor protection	-	B16 A	3 x B10 A
Emergency heating protection	-	2 x B16 A	2 x B16 A or 3 x B16 A
Controller protection	-	B16 A	
Compressor phases	-	L/N/PE	3L/N/PE
Emergency heating phases	-	2L/N/PE (6.2 kW)	2L/N/PE (6.2 kW) or 3L/N/PE (8.8 kW)
Controller phases	-	L/N/PE	
Emergency heating rated voltage	V	230/400	
Residual current circuit breaker**	-	Type F, residual current 30 mA, short-time delayed	Type B, residual current 30 mA, short-time delayed

*For SolvisLea 10 Pro, the power should be selected according to the coverage gap at NAT.

**Intensive tests have shown that the Eaton FRCDM-25/4/003-G/BFQ residual current circuit-breaker (SOLVIS art. no. 32448) is not suitable in combination with SolvisLea Pro, as false tripping may occur.



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