



Accessory

Installer Manual

KWS Split



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1 General

The accessory KWS Split is used to safely lead away most of the condensation water from SPLIT to a frost free collection point.



NOTE

It is important to the heat pump function that condensation water is led away and that the drain for the condensation water run off is not positioned so that it can cause damage to the house.

The heating cable starts automatically at an outdoor temperature of 1.5°C. When the temperature exceeds 2°C the heating cable switches off again.

Contents

1 x	Insulated hose (inner diameter 40 mm)
1 x	Heating cable
1 x	Hose clamp
1 x	Fuse
1 x	Gasket
6 x	Cable ties
1 x	Screw
1 x	Nuts
2 x	Washers
1 x	Connection piece
1 x	Residual current device RCD (applies only to F2040 and AMS 10)
14 x	Plug (applies only to F2040 and L... Split)
1 x	Connection plate (applies only to L6 Split)

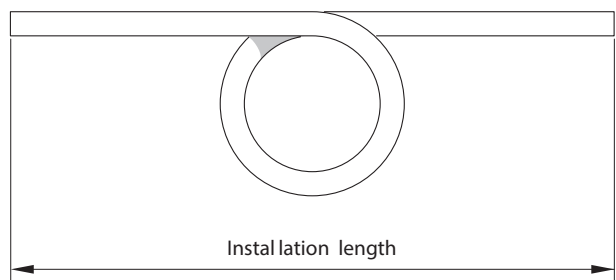


NOTE

The installation of KWS Split can affect the machine's function. Read the entire manual!

KWS Split available in three lengths

KWS Split is available in three lengths. Here you can see an example of the installation length.



	KWS Split
	Part No.
Hose length 1 metre (installation length 1 m without water seal)	15213801
Hose length 3 metres (installation length 1-2.2 m with water seal)	15213901
Hose length 6 metres (installation length 2.2-5.2 m with water seal)	15214001

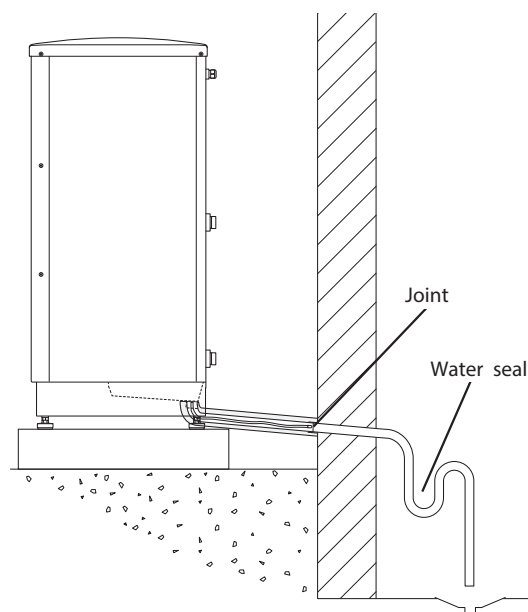
2 Pipe connections

General

Connect KWS Split to the heat pump's condensation water trough.

- Pipe installation must be carried out in accordance with current norms and directives.
- We recommend three ways of leading off condensation water; to an indoor drain (subject to local rules and regulations), stone caisson, gutter drainage or other frost free collection point.
- When casting the base, the holes for KWS Split must have an internal diameter of 110 mm.
- Route the pipe downward from the air/water heat pump.
- The insulation of KWS Split must seal against the bottom of the product's condensation water trough.
- The drain from KWS Split must be positioned at frost free depth or indoors (subject to local rules and regulations).
- The drain from KWS Split must be able to receive up to 100 litres of condensation water per day.
- The installation must be equipped with a water seal where air circulation can occur in the condensation water pipe.

Drain indoors



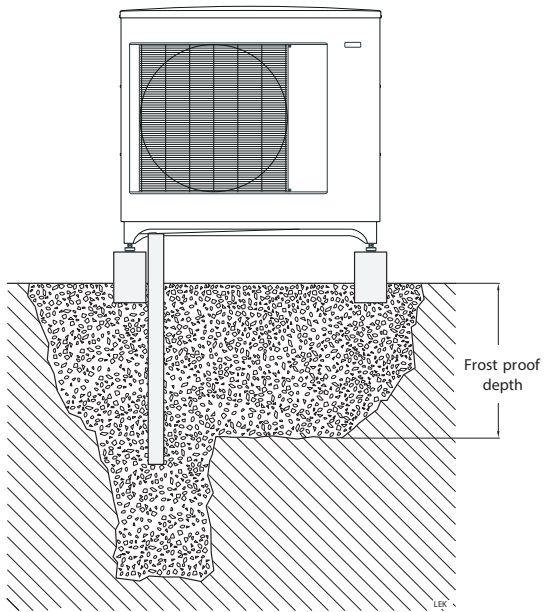
The condensation water is lead to an indoor drain (subject to local rules and regulations).

Route the pipe downward from the air/water heat pump.

The condensation water pipe must have a water seal to prevent air circulation in the pipe.

KWS Split spliced as illustrated. Pipe routing inside house not included.

Stone caisson



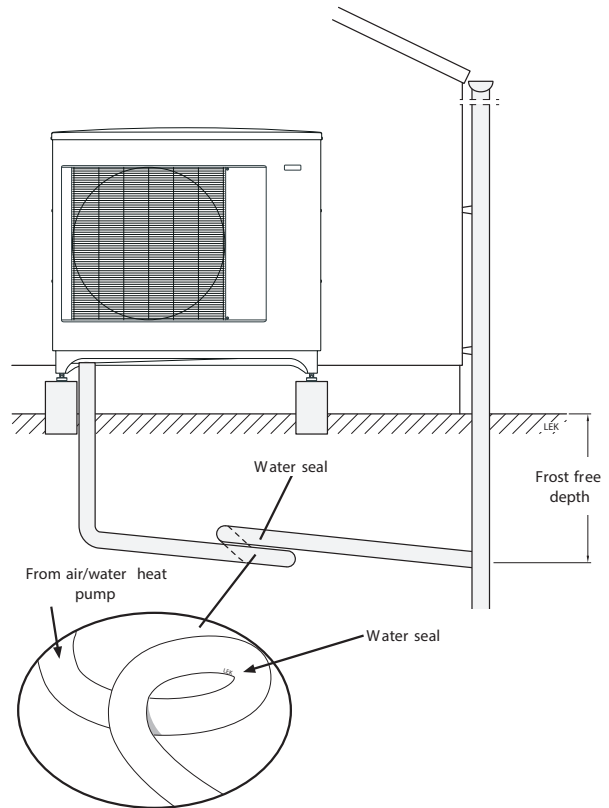
If the house has a cellar the stone caisson must be positioned so that condensation water does not affect the house. Otherwise the stone caisson can be positioned directly under the heat pump. The outlet of the condensation water pipe must be at frost free depth.

Gutter drainage



NOTE

Bend the hose to create a water seal, see illustration.



- The outlet of the condensation water pipe must be at frost free depth.
- Route the pipe downward from the air/water heat pump.
- The condensation water pipe must have a water seal to prevent air circulation in the pipe.
- The installation length can be adjusted by the size of the water seal.

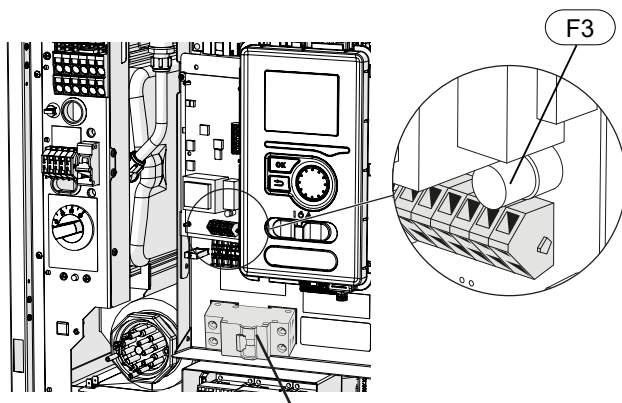
3 Electrical connection

NOTE

All electrical connections must be carried out by an authorized electrician.

SPLIT CONTROLLER

FUSE LOCATION, SPLIT CONTROLLER



Fuse RCD residual current circuit breaker

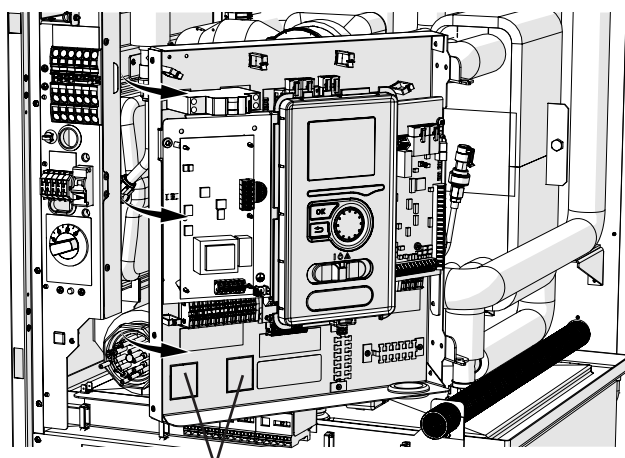
Length, heating cable (m)	P _{tot} (W)	Fuse (F3)	Part No.
1	15	T100mA/250V	718 085
3	45	T250mA/250V	518 900*
6	90	T500mA/250V	718 086

*Fitted at the factory.

ELECTRICAL CONNECTION

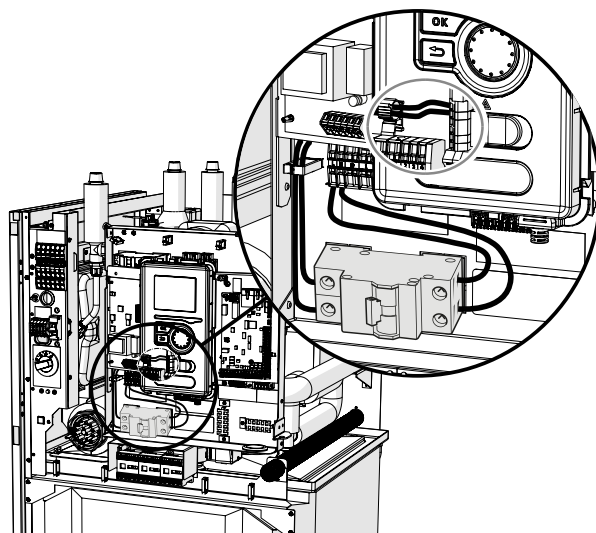
To connect the electric KVR set:

1. Open the control panel and knock out the notched plates in the control panel housing under the residual current device.

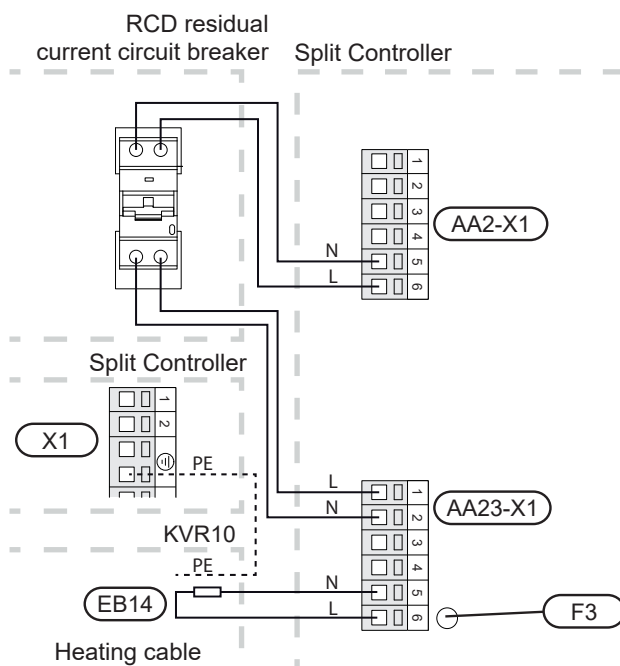


Punch-out parts

2. Fasten the RCD residual current device.
3. Use a fuse (F3) depending on the length of the KVR cable according to the table above.



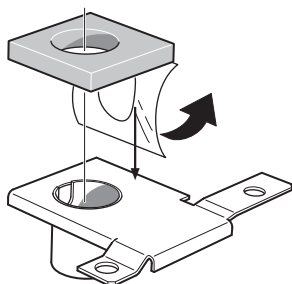
4. Connect a residual current device to the AA2-X1 terminal block under terminals 5 (N) and 6 (L).
5. Connect an RCD to the AA23-X1 strip to terminals 1 (L) and 2 (N).
6. Connect the external heating cable (EB14) to the AA23-X1 strip to terminals: 4 (PE), 5 (N), 6 (L).



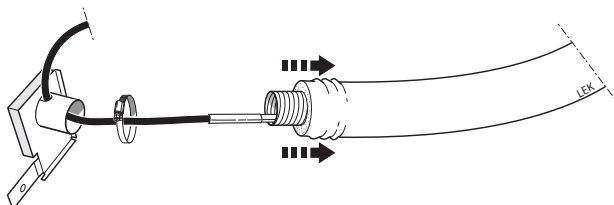
CABLE ROUTING, L... Split

Recommended cable routing from the connection box to the condensation water hose connection to L... Split. There is a switch between the cold and hot sections of the heating cable at the marking on the cable. The marking may end up at the edge of the hole for the cable grommet.

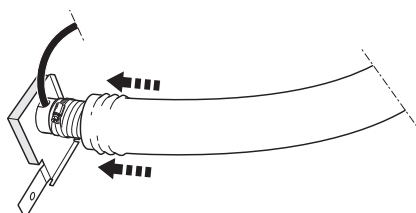
1. Pull off the protective paper and secure the gasket to the condensation water connection, see image.



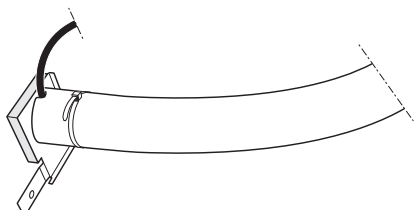
2. Thread hose clamp on.
3. Route the heating cable through the condensation water pipe.
4. Route the heating cable through the drain pipe on the connection plate, see image.



5. Pull the insulation down slightly, connect the hose to the drain pipe and tighten the hose clamps, see image.

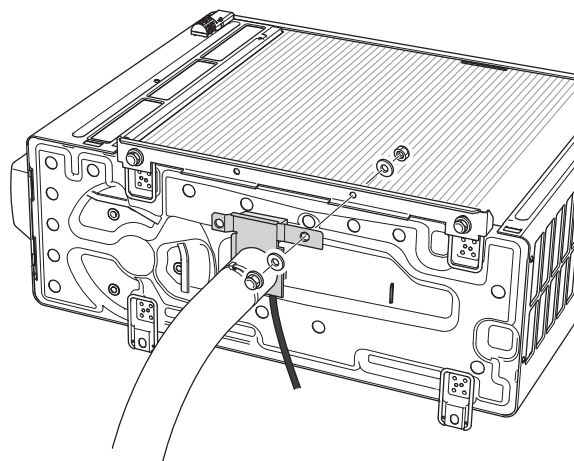
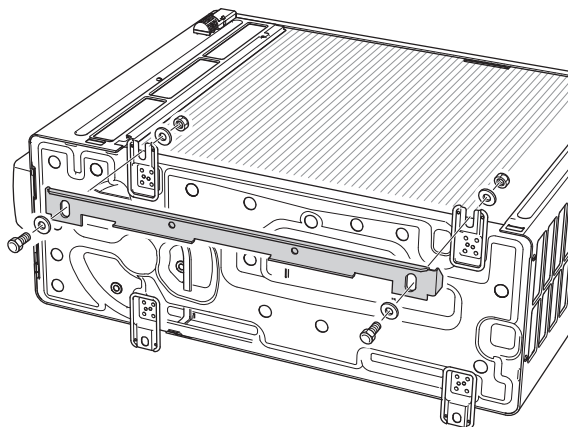


6. Push the insulation up towards the trough and secure it using cable ties, see image.

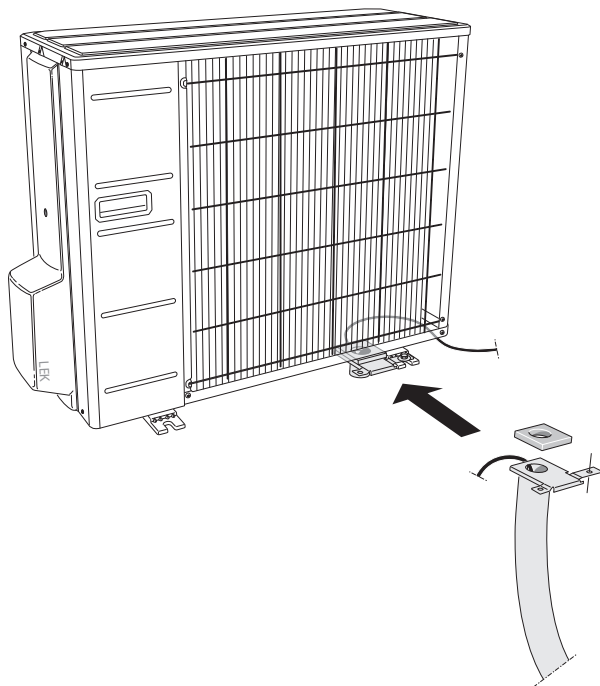


7. Stretch the heating cable and ensure that the marking on the heating cable is as close to the drain pipe as possible.
8. Install the connection plate on L... Split. Use the mounting bolt that is securing the heat pump. (See image of relevant L... Split model.)

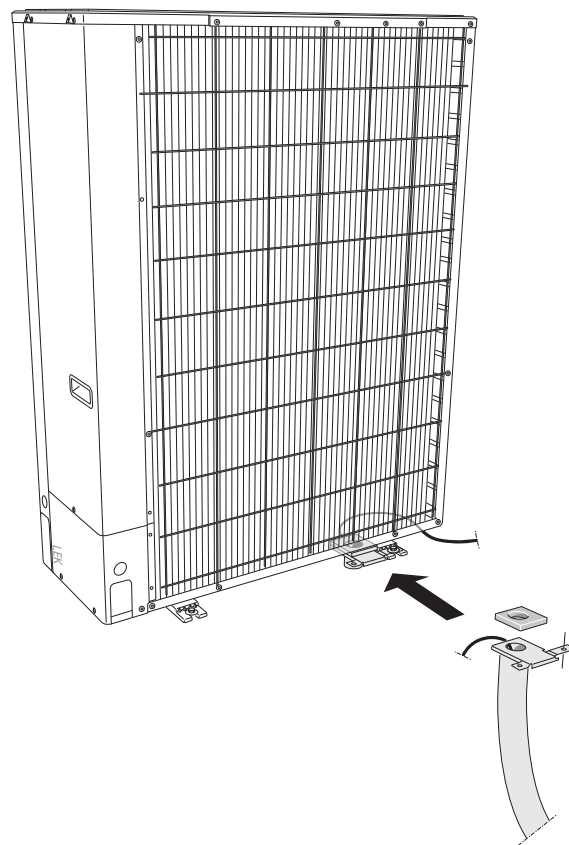
L6 Split



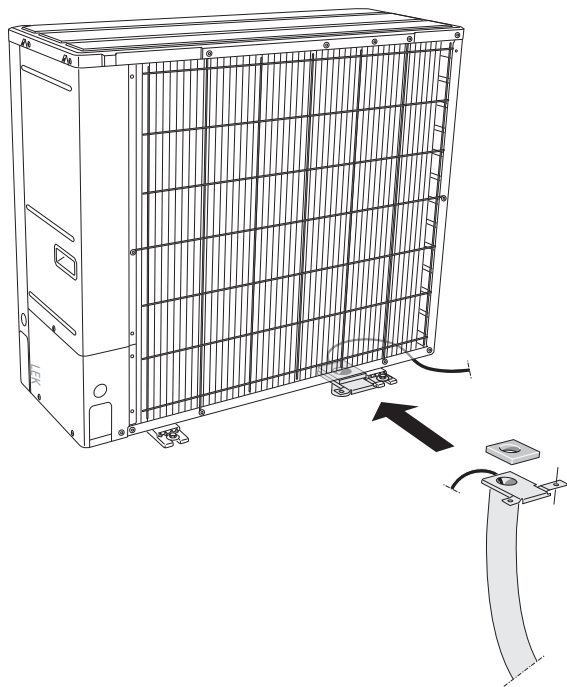
L8 Split



L16 Split

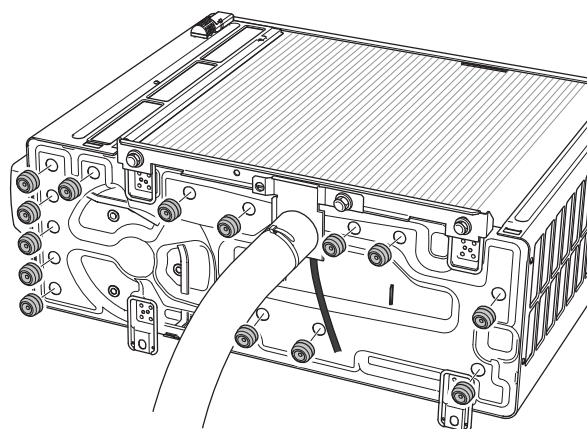


L12 Split

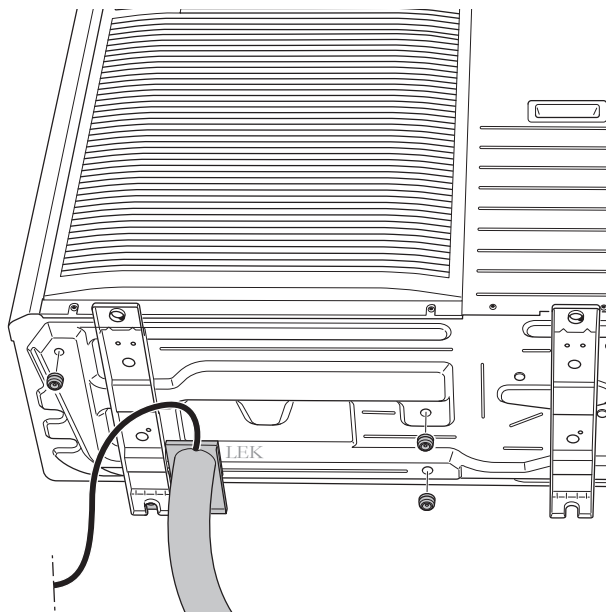


9. Install plugs on the underside of L... Split. (See image of relevant L... Split model.)

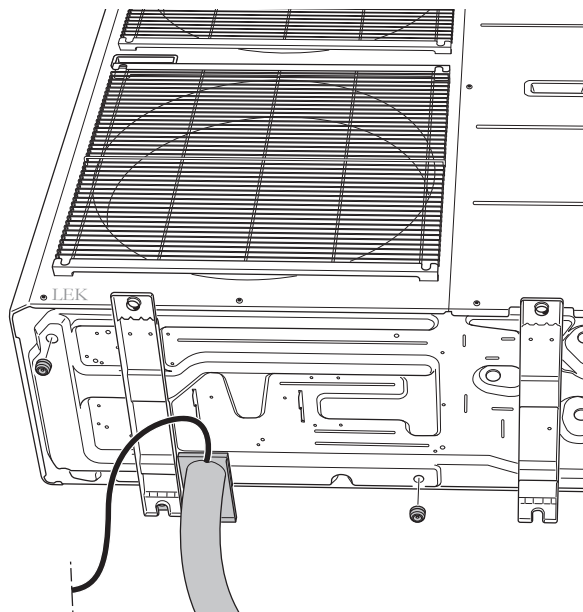
L6 Split



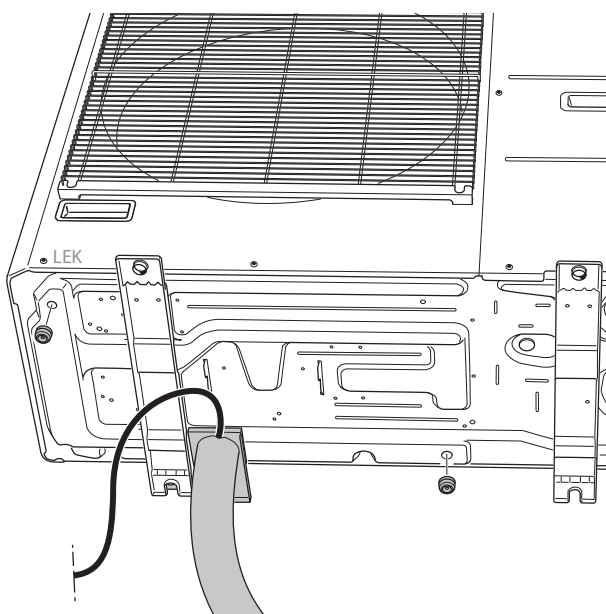
L8 Split



L16 Split



L12 Split



10. Mount the control box on the wall close to L... Split.
11. Route the heating cable to the connection box and connect it to the cable from the electrical connection of Split Controller , as illustrated in „Electrical connection”.



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