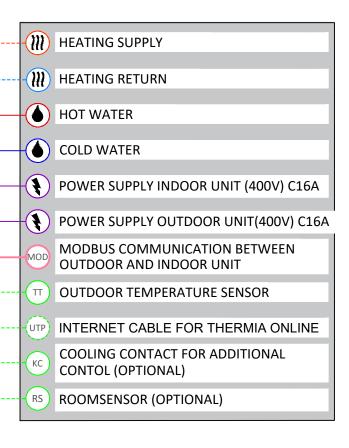


Thermia iTec XT Total EQ





1cm

POINTS TO CONSIDER FOR DESIGN AND INSTALLATION

PLACING THE ITEC XT OUTDOOR UNIT The outdoor unit should be raised on a foundation with sufficient load-bearing capacity. This can be achieved using a concrete pedestal or the optionally supplied mounting beam (*3). A filled iTec XT outdoor unit weight approximately 136kg.

Always maintain the minimum distances to ensure an unobstructed airflow. An obstructed airflow can result in loss of power, efficiency, noise nuisance or damage to structures.

Do not place the iTec XT outdoor unit directly near or under an open window or near an intake grille/duct of a ventilation system.

The distance between the outdoor unit and the indoor unit should be kept as small as possible to minimize temperature loss. The maximum pipe lenght between the iTec XT outdoor unit and the iTec XT Total EQ indoor unit is 20 meters with a diameter of 28mm copper or 32mm plastic.

During the defrost cycle, large amounts of water are released. The condensate drain is located at the bottom of the iTec XT outdoor unit. To discharge the condensate water, it can be infilltrated into the ground through a gravel bed or infilltration crate directly under the iTec XT outdoor unit.

distance of 1 meter.

For the operation of the iTec XT outdoor unit, it is crucial to place the flow switch in the flow direction. Ensure a minimum distance behind the flow switch of 5 x DN size and in front of the flow switch 2 x DN size.

PLACING THE ITEC XT TOTAL EQ INDOOR UNIT of approximately 300kg.

The heating supply & return pipes to indoor unit (7 and 8, see next page) can be connected either on the left or right side of the iTec XT Total EQ indoor unit. These instructions assume a left-side connection.

placing fitting 3, 6, 7, 10 & 11.

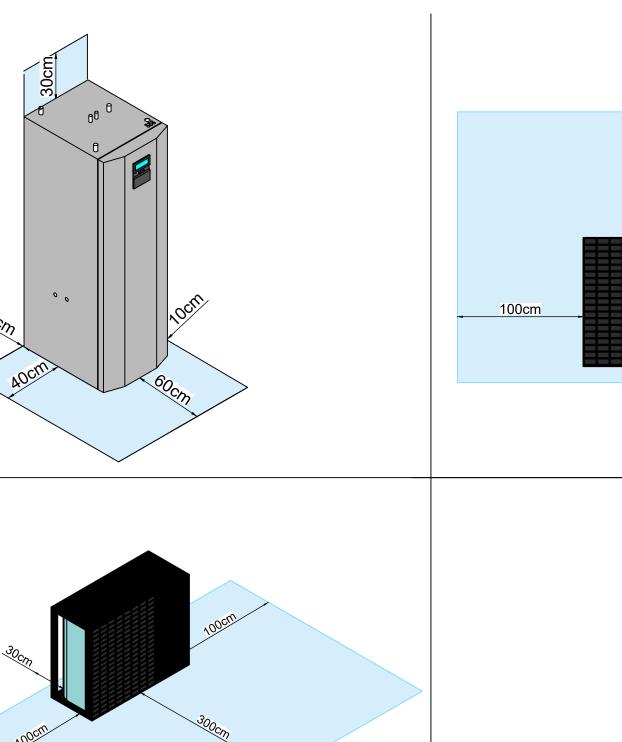
Place a 25A, 4-pole serviced switch within reach of the iTec XT Total EQ indoor unit at a maximum distance of 1 meter.

PREPARATION FOR COMMISSIONING

The heatpump is very sensitive to air present in the system. Therefore, follow the procedure below to fill the system:

-

-



100cm

13cm

100cm

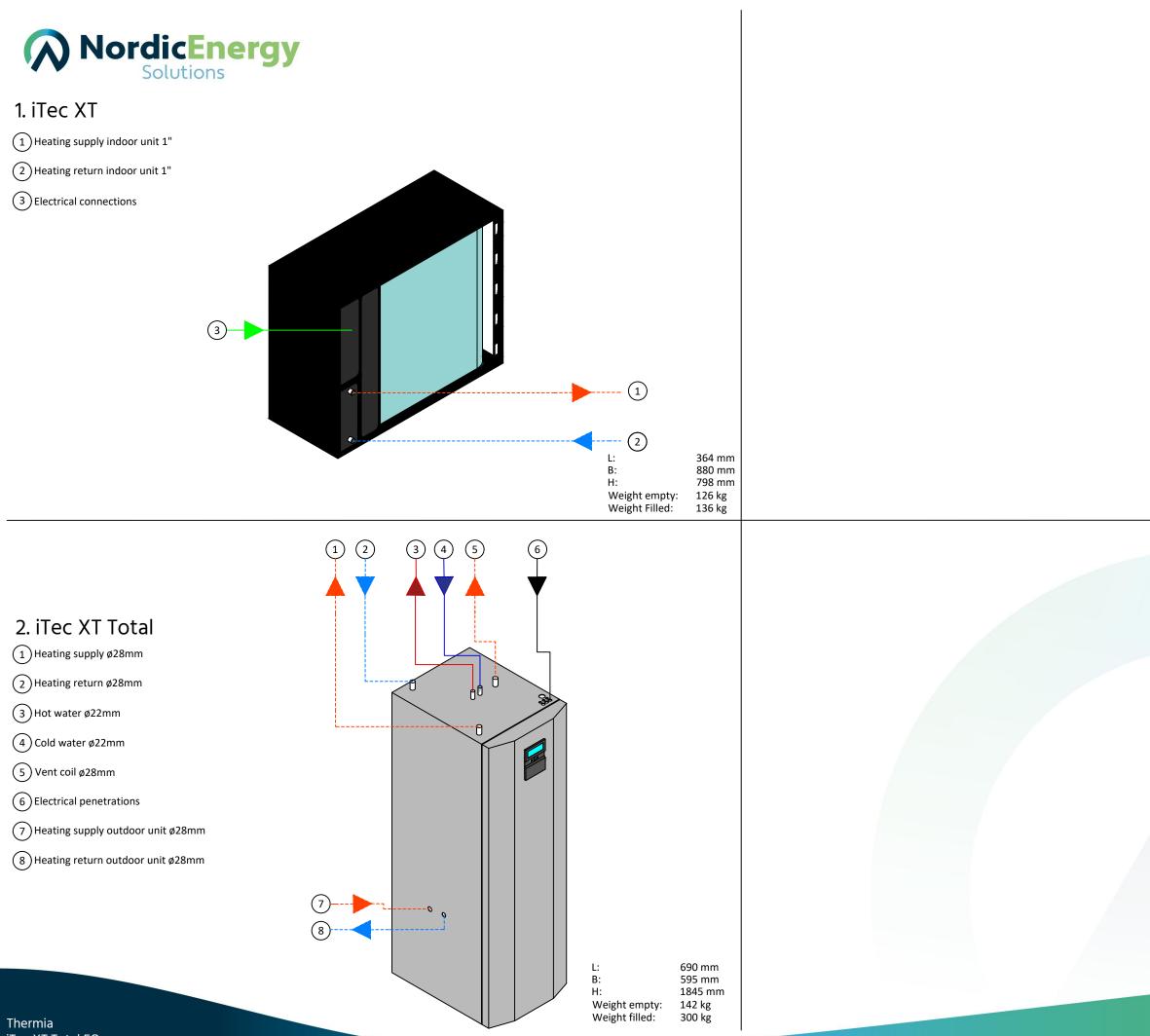


Place a 25A-4-pole service switch within reach of the iTec XT outdoor unit at a maximum

The iTec XT Total EQ indoor unit should be placed on a foundation with sufficient load-bearing capacity

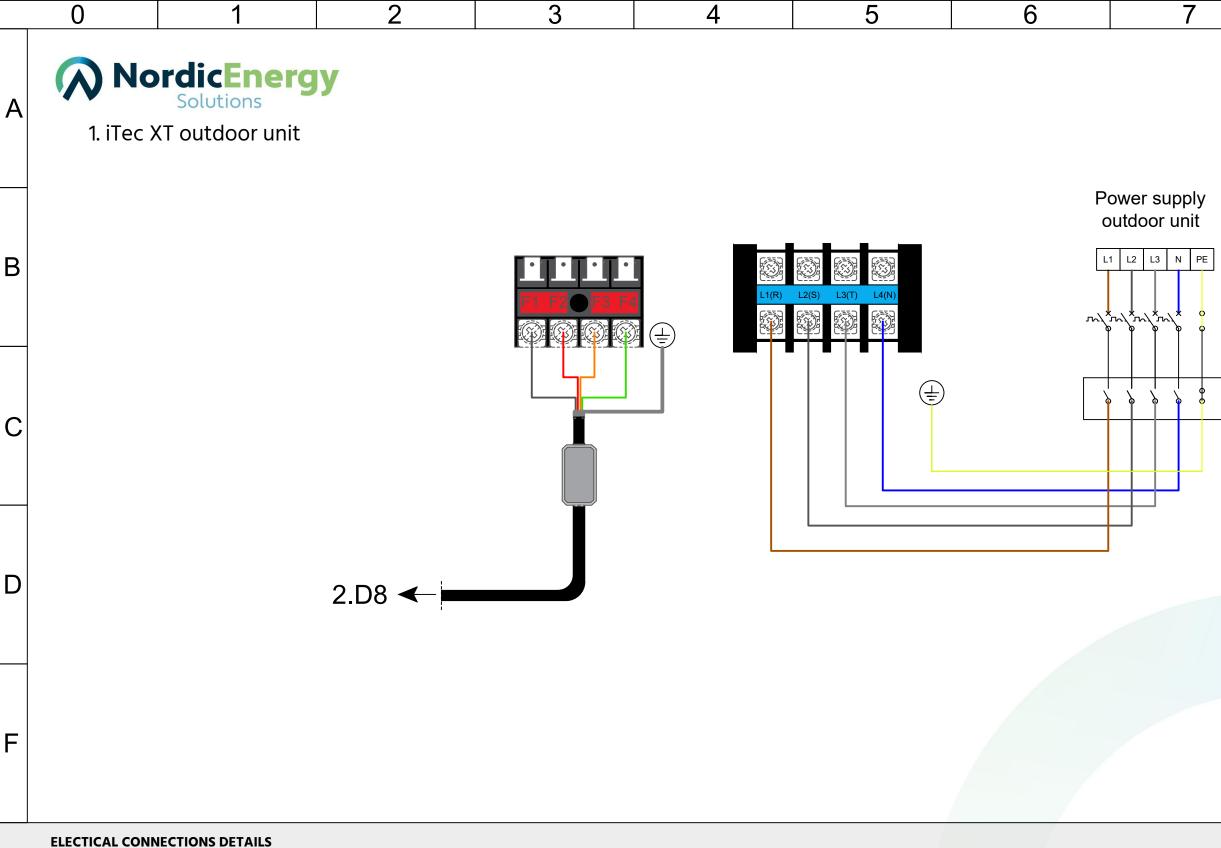
The specified free space of 40 cm to the left of the iTec XT Total EQ indoor unit can be used for

Vent the coil through the vent on top of the iTec XT Total EQ indoor unit, see fitting 14; Vent the entire heating installation (manifolds, etc.) if manual vents are present; Rinse the entire outdoor installtion through the rinse set, fitting 7.



iTec XT Total EQ





Power supply iTec XT outdoor unit:

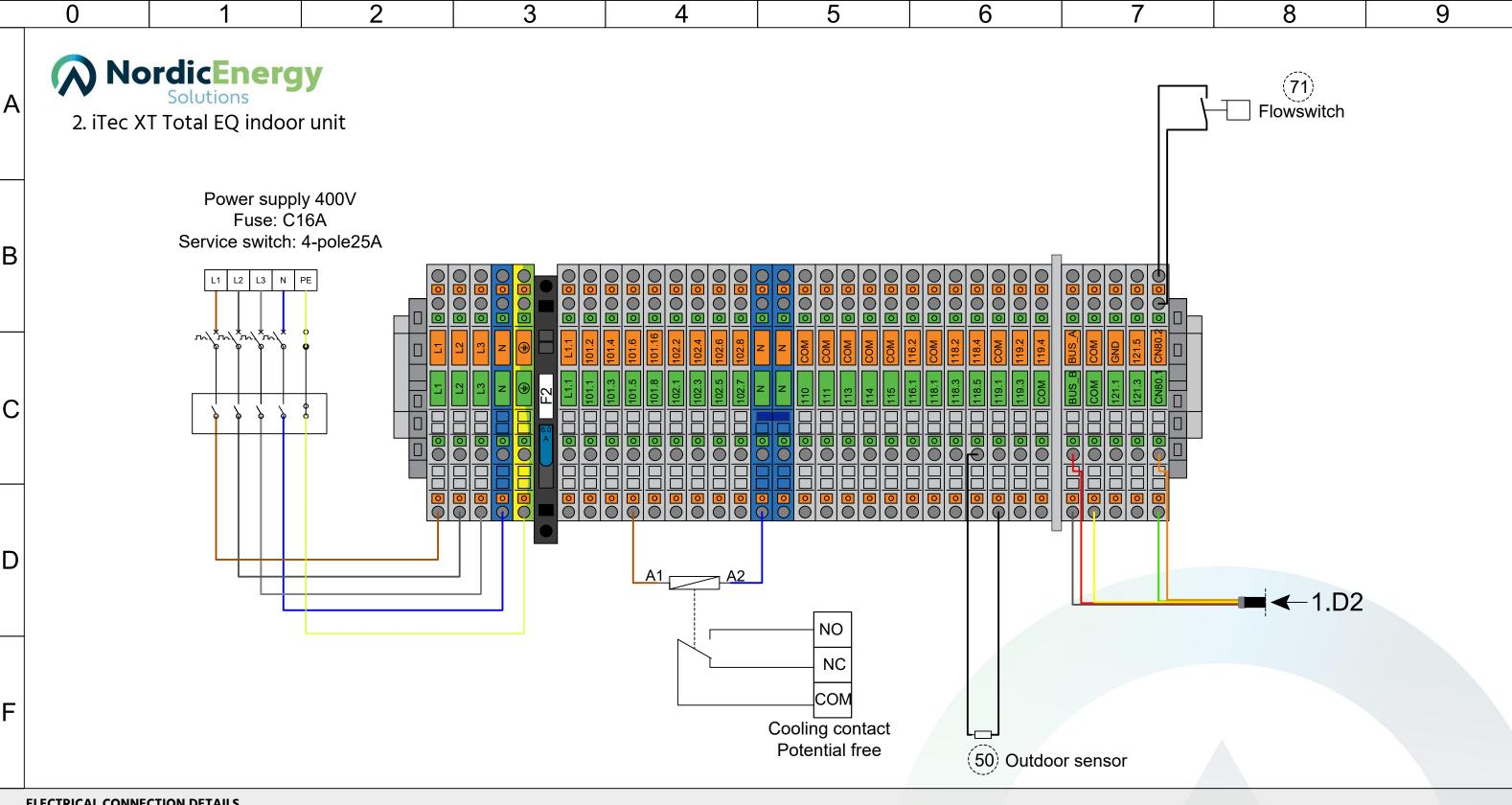
5x2,5 mm² Communicatiion cable between indoor and outdoor unit: 2x2x0,2 mm² afgeschermde twisted pair kabel (RS485 modbus)

iTec XT outdoor unit:

Place service switch within 1m of the machine.

0	0
8 N	9





ELECTRICAL CONNECTION DETAILS

Power supplyiTec XT Total EQ indoor unit: Communication cable betweer indoor and outdoor unit: Outdoor sensor: Room sensor:

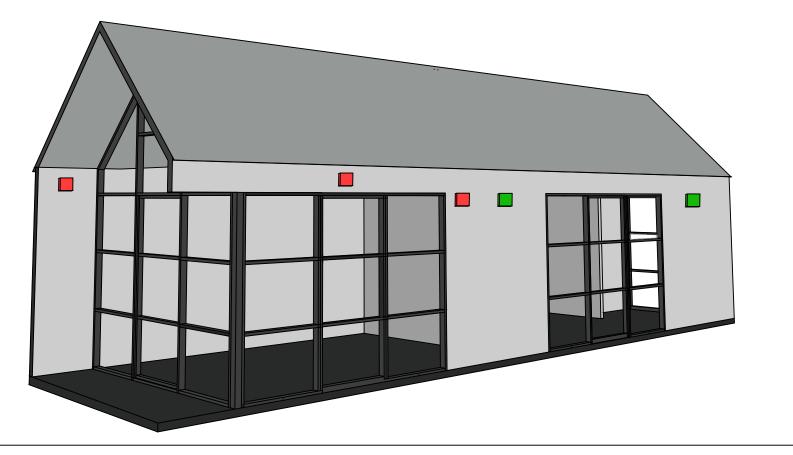
iTec XT Total EQ indoor unit: To use the cooling contact:

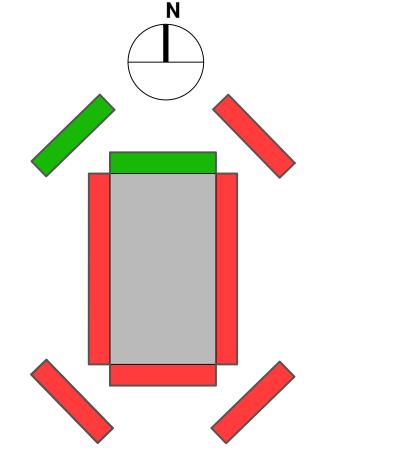
5x2,5 mm² 2x2x0,2 mm² shielded twisted pair cable (RS485 modbus) 2x0,75 mm² (tot 50m) 4x0,8 mm²

Place service switch 1m within the machine relais (230V)









INSTALLATION OF THE OUTDOOR SENSOR

Install the outdoor sensor on the north wall. Deviation to the northwest wall is allowed.

ventilation opening.

Preferably install the outdoor sensor between the ground floor and the first floor.

Avoid installing the sensor on a wall with reflective or heat-absorbing cladding.

Do not place the sensor under an overhang or eaves.

Ensure the sensor is not installed directly under the roofline.

Oreferably use a two-wire cable with the following thicknesses:

- < 50 meters: 0,75mm² > 50 meters: 1,5mm²

Gebruik bij voorkeur een twee-aderige kabel, dikte: < 50 meter: 0,75 mm² > 50 meter: 1,5 mm²

There is no need to consider polarity (+ or -) when connecting to the terminal block.

Thermia iTec XT Total EQ

Ensure the outdoor sensor is at least 0.5 meters away from any window, door, wall opening or

