

Installation and Operation Manual **EN**  
**WALL MOUNTING BRACKETS FOR**  
**CTC EA 400, 500, 600 and RTC series HEAT PUMPS**

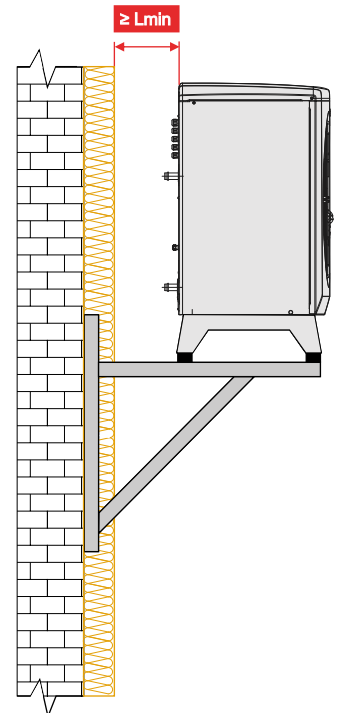
# 1. Introduction

Brackets for the CTC EA 400, 500, 600 and RTC series heat pumps allow easy and quick mounting on a wall or other vertical structure. They are used to hang the heat pump to the required height above the ground. The surface of the brackets is hot-dip galvanized and thanks to that it is protected against corrosion for a long time. The delivery includes steel ropes ensuring the spatial rigidity of the structure and silent blocks for anti-vibration mounting of the whole unit.

To ensure a sufficient air supply, it is necessary to observe the minimum required distance of the heat pump from the wall according to the table below:

Heat pump model		Lmin ≥ [mm]	Bracket installation on:		Max. insulation thickness [mm]
			uninsulated wall	insulated wall	
CTC EA	406	300	✓	✓	150
	408	300	✓	✓	150
	410	300	✓	✗	✗
	415	400	✓	✗	✗
	420	400	✓	✗	✗
	510M	300	✓	✓	150
	614M	300	✓	✓	150
	622M	400	✓	✗	✗
RTC	6i	300	✓	✓	300
	13e	300	✓	✓	250
	20e	300	✓	✗	✗

✗ a larger bracket, code 18406, is intended for installation on an insulated wall

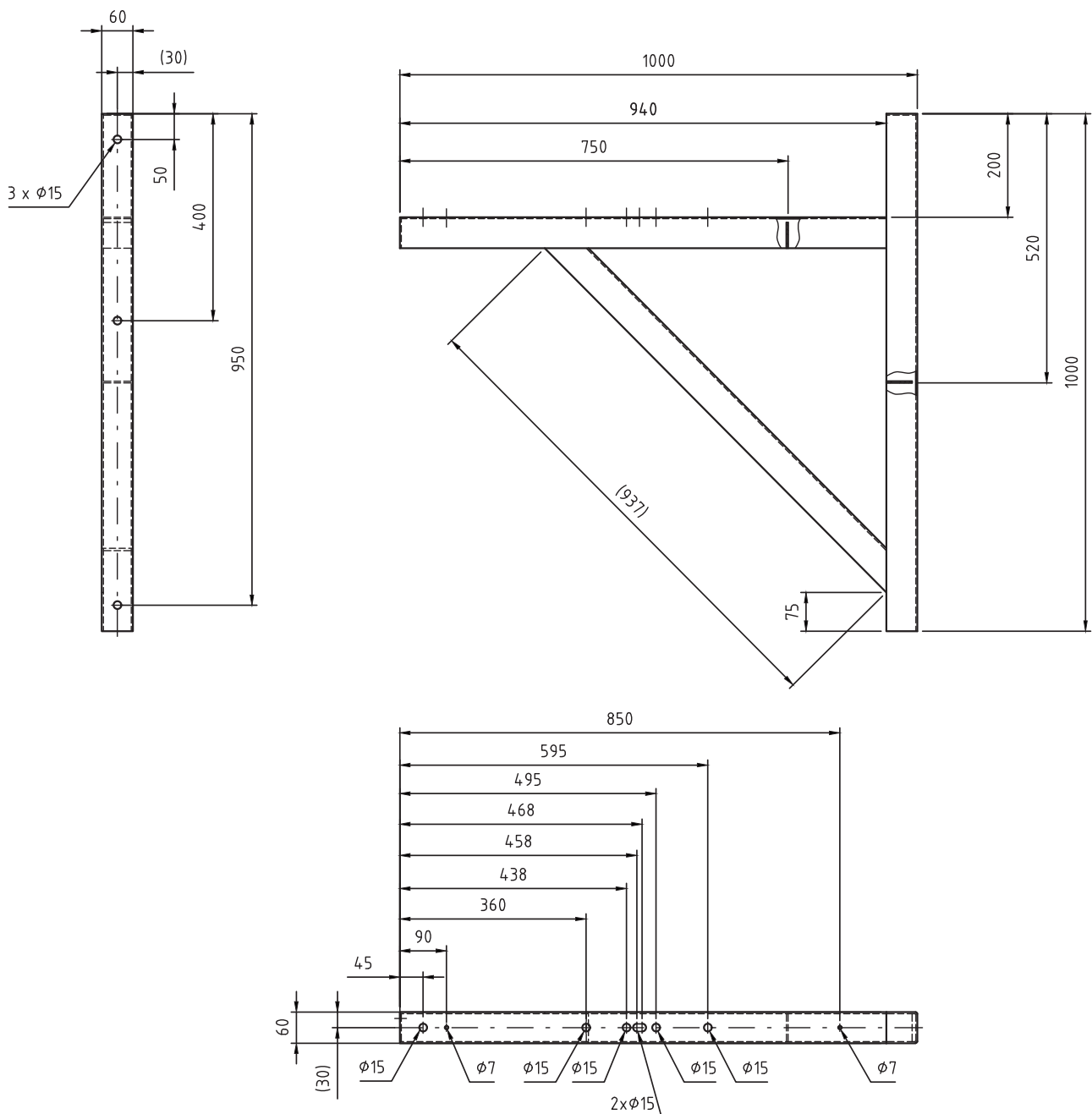


# 2. List of Components

The kit for mounting the heat pump on the wall includes the following parts:

- welded galvanized bracket (2 pcs)
- steel wire rope Ø 3.15 mm, l= 1500 mm (2 pcs)
- flat wire rope clamp, 3 mm (4 pcs)
- M5 hook and eye wire rope tensioner (2 pcs)
- M6x50 eye bolt (4 pcs)
- spring washer Ø 6.1 mm (4 pcs)
- M6 nut (6 pcs)
- silent block, 60x40 mm, type 1, M10x28 (4 pcs)
- mudguard washer, 10.5x30 mm (8 pcs)
- M10 nut (8 pcs)

### 3. Dimensions



### 4. Wall Mount Procedure

#### 4.1 Choice of the mounting method and preparatory work

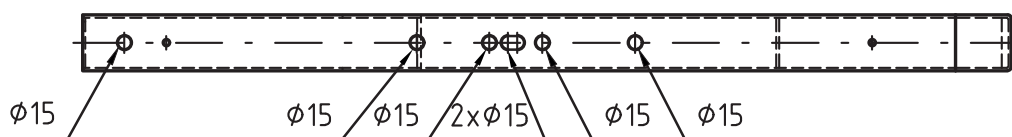
**Note:** Always mount the bracket directly on the wall as follows. **Under no circumstances is it possible to mount the bracket directly on the wall insulation!**

Before mounting the bracket on the wall, it is important to carefully choose the method of mounting according to the composition of the wall and its load-bearing capacity. It is also important to remember that depending on the size of the heat pump, the wall will be loaded with a weight of over **200 kg**. For this reason, it is recommended to use **a chemical anchor** or a **through-wall anchor** for installation.

The package includes **silent blocks** which are used for flexible mounting of the heat pump. It is recommended to follow this procedure for their installation:

Unscrew the adjustable legs of the heat pump, then screw in the silent blocks instead and place the heat pump with the silent blocks on the supporting structure.

Holes of 15 mm diameter are pre-drilled in the supporting structure **for mounting the heat pump**.

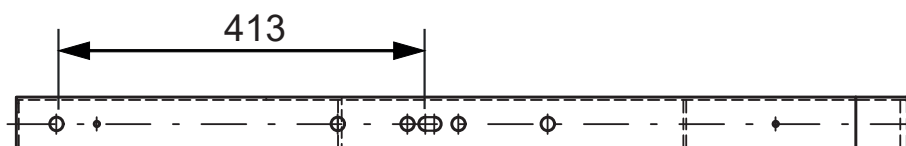


Depending on the size of the heat pump, the holes in the brackets are pre-drilled at the following pitches:

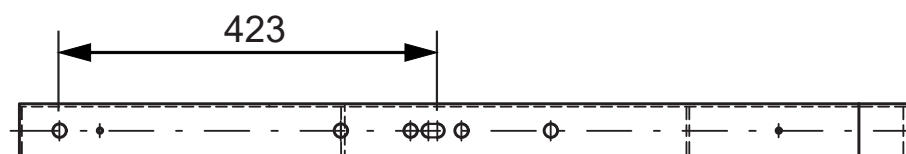
**RTC 6i**



**RTC 13e**



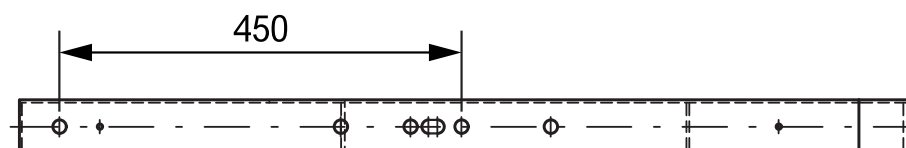
**RTC 20e**



**CTC EA 406-408**

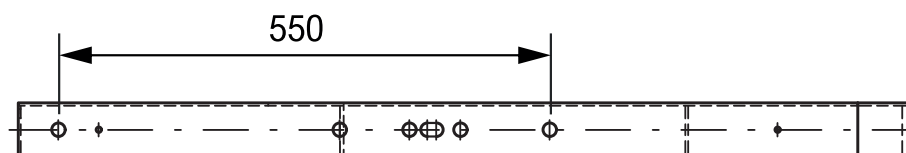
**CTC EA 510M**

**CTC EA 614M**



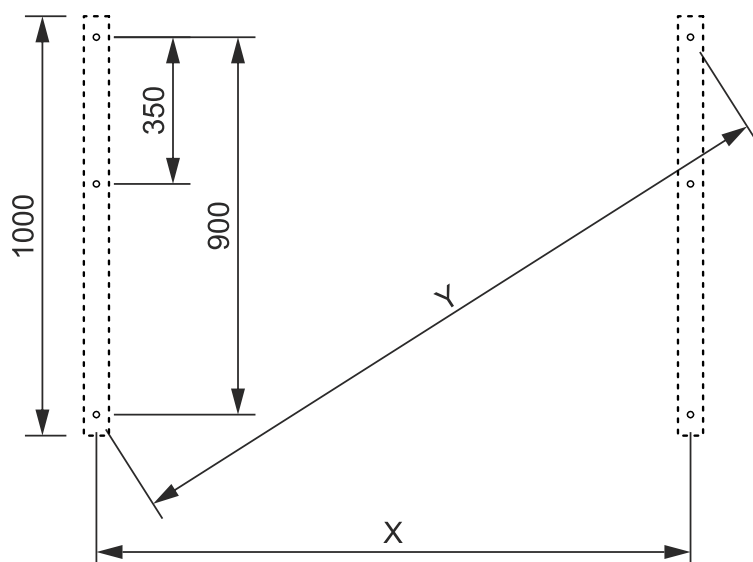
**CTC EA 410-420**

**CTC EA 622M**



## 4.2 Mounting on a wall

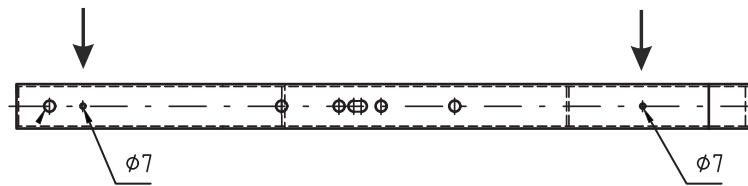
When mounting using a chemical anchor, follow the information provided by the manufacturer of the respective chemical anchor. To perform the installation, it is necessary to drill **6 holes** in the wall for the **M10** or **M12** threaded rod at the following pitches:



X [mm]	Y [mm]	heat pump
1155	1465	CTC EA 510M CTC EA 614M
1285	1570	CTC EA 410-420 CTC EA 622M
844	1136	RTC 6i
936	1206	RTC 13e
736	1163	RTC 20e

### 4.3 Windbracing

To ensure sufficient spatial rigidity, shape and position of the structure, it is necessary to perform **windbracing**. The enclosed steel ropes with tensioners and eyebolts are used for this purpose. Two pre-drilled holes of **7 mm diam.** in each bracket are used to fasten the steel ropes using M6x13 mm eye bolts.



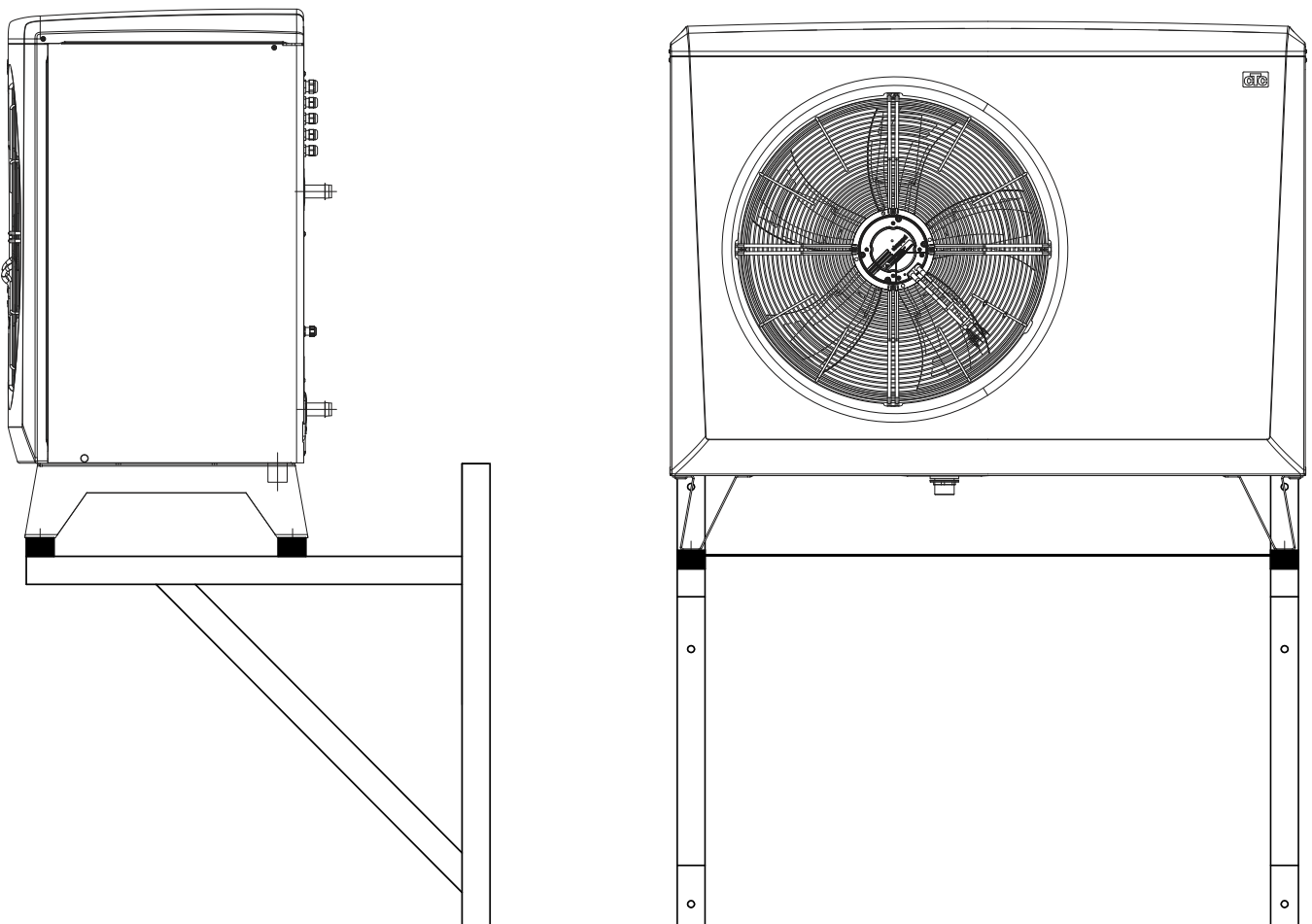
The length of the steel ropes is prepared for the maximum pitch of the brackets (see point 4.2). In case of windbracing the structure for heat pumps that require a smaller pitch, it is necessary to shorten the ropes. **Rope clamps** are designed for this purpose.

After attaching the steel rope and possibly adjusting its length, it is necessary to tension it using **rope tensioners**.

**Tighten the rope only so that the structure is not deformed or shifted from its original position.**

### 4.4 Mounting the heat pump on the supporting structure

After performing all the previous steps after which the structure is firmly attached to the wall and windbraced, place the heat pump on the supporting structure. **It is important that the heat pump is mounted on silent blocks.** Secure the heat pump with the washers and nuts provided.



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