

RIGGING & ASSEMBLY INSTRUCTION



Instruction for Product Lifting and Assembly

The evaporative condenser is the heavy equipment to install at the location desired by the user. The lifting range of each model with different sizes and weights is shown in Table 1.

For the safety of users or products, check the lifting range thoroughly before lifting. If the user or installer has any questions, contact the company.

Lower Section Lifting and Assembly

The anchor point for basin set lifting is at the top edge inside of the basin. The user or installer can attach a pulley to the anchor and lift the product to the installation position.

The four anchor points showing in Figure 1. The hole is 30 mm. The sign of the lifting position displayed on the machine is shown in Figure 1.

After attaching the pulley or sling to all anchor points, the user or installer starts lifting and ensures that the hook position is at an appropriate level. See Table 1: Range of Basin Set Lifting Position.

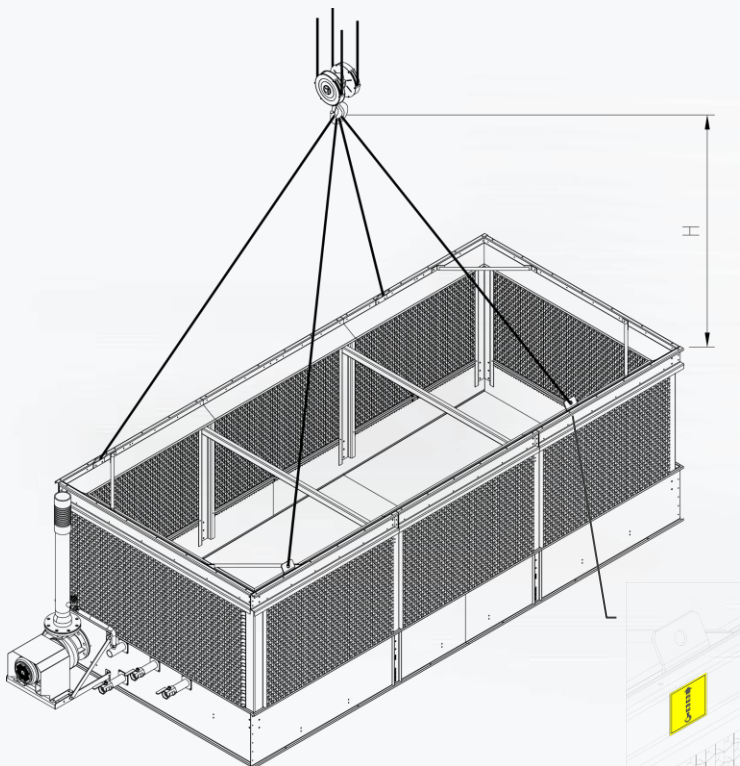


Figure 1 Lifting Pattern and Position

Table 1 Range of Lower Section Lifting

Model	Minimum dimension
	H
EC7-0550	2.0 m.
EC7-0700	2.0 m.
EC7-0800	2.5 m.
EC7-1000	2.5 m.
EC7-1250	4.0 m.
EC7-1350	3.5 m.
EC7-1500	4.0 m.
EC7-1550	3.5 m.
EC7-1700	3.5 m.
EC7-1800	4.0 m.
EC7-2000	5.5 m.
EC7-2350	5.5 m.
EC7-2550	5.5 m.
EC7-2800	5.5 m.
EC7-3100	5.5 m.
EC7-3300	5.5 m.
EC7-3550	5.5 m.
EC7-3700	5.5 m.
EC7-3900	5.5 m.

Lower Section Lifting and Assembly (continued)

After lifting the lower section to the installation position, install sealer tape on the top edge of all sides of the basin, see Figure 2, to prevent leakage. Remove the paper on the top of the sealer tape.

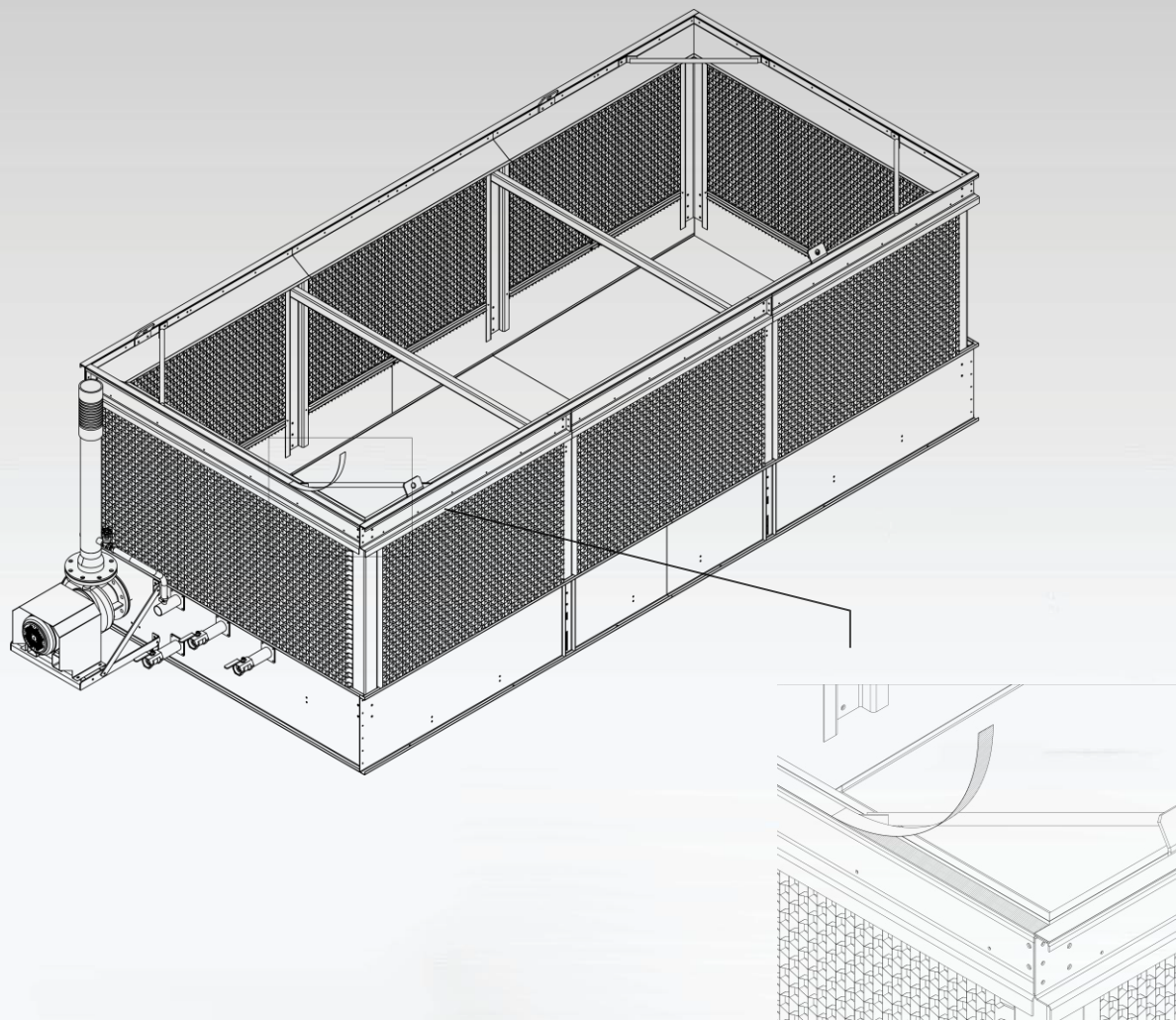


Figure 2 Sealer Tape Installation

Remark: Ensure that the paper on the sealer tape is removed before lifting the upper section.

Fan Set Lifting and Assembly

In some models and cases, the fan set is disassembled for transportation. The fan set can be reassembly by following the instruction.

1. Assemble the leg to the chimney, as shown in Figure 3.

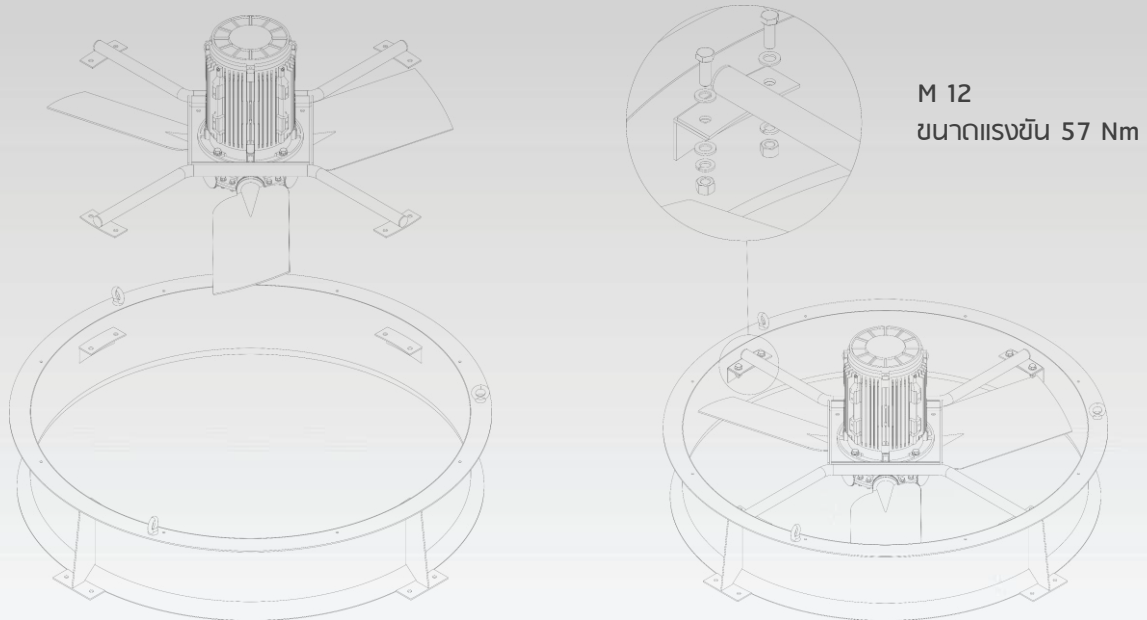


Figure 3 Attach Fan Leg to Chimney

2. Assemble the fan guard to the chimney, as shown in Figure 4.

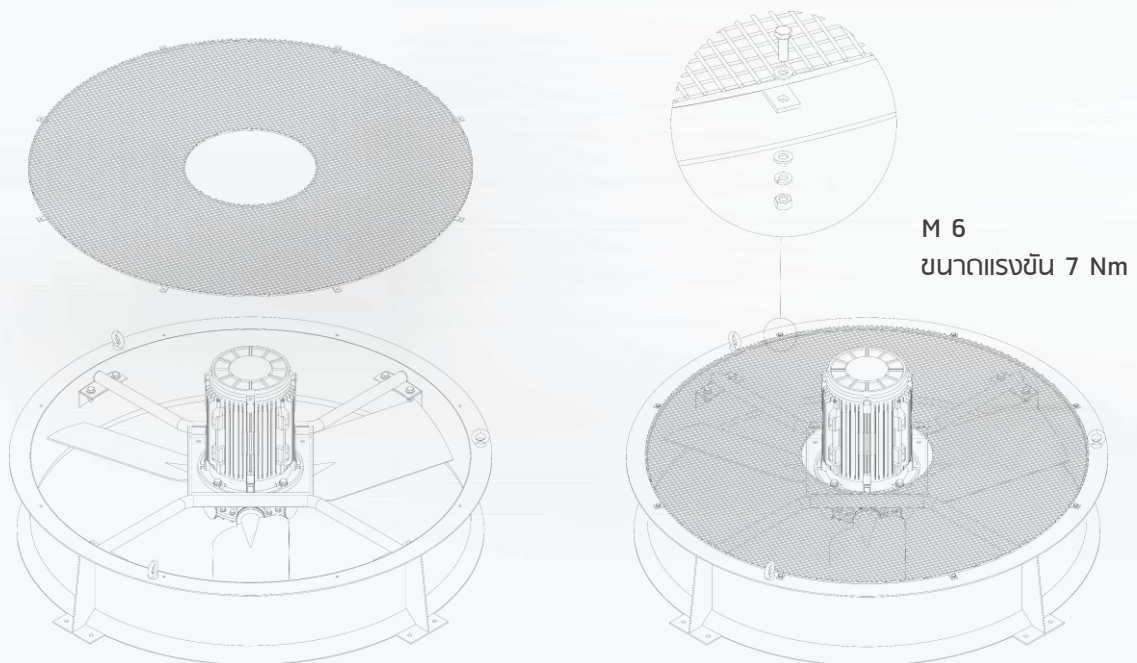


Figure 4 Attach Fan Guard to Chimney

Upper Section Lifting and Assembly

When the user or installer wants to lift the upper section, the anchor position can be noticed from the label indicating the lifting position attached to the machine. The size of the hole is 35 mm. The user or installer must attach the sling to all anchor points, as shown in Figure 9.

After attaching all anchor points, put two spreader bars on the sling to prevent the pressing of the sling while lifting the product to avoid damage. While lifting, the hook should be at the appropriate position, as shown in Table 2.

Remark: Always use the spreader bar when lifting the upper section to prevent damage.

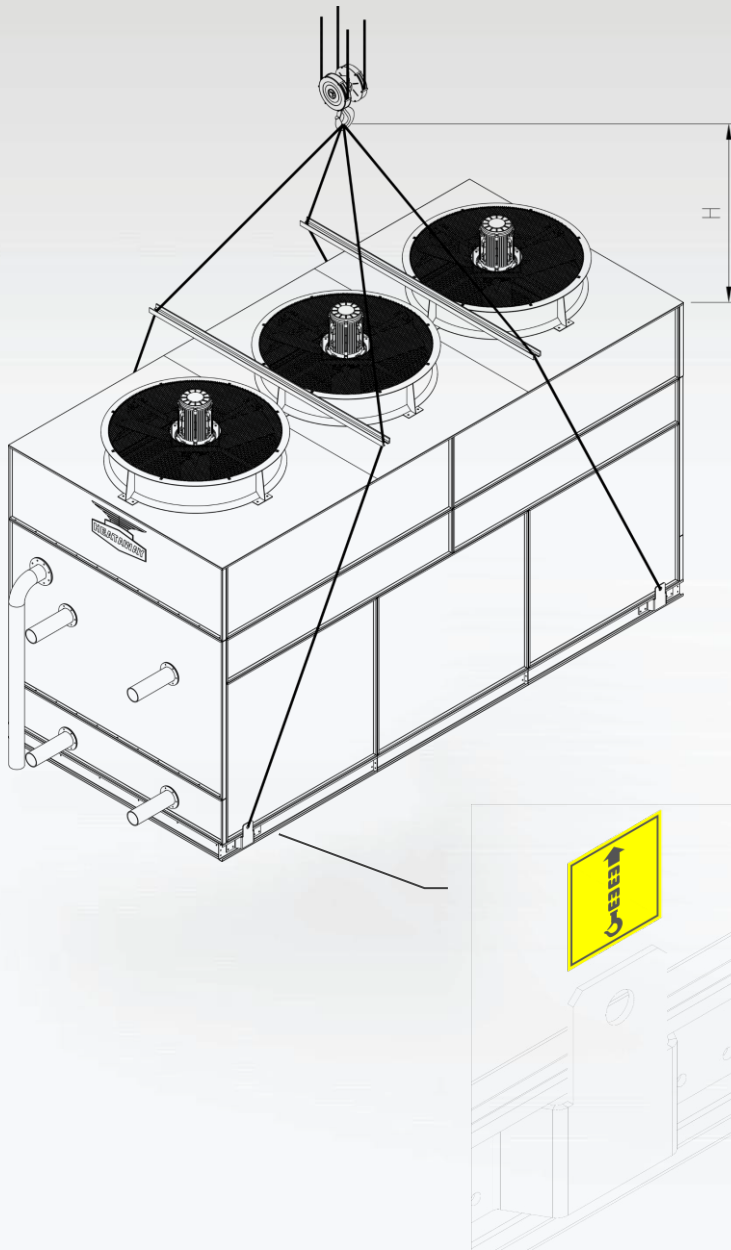


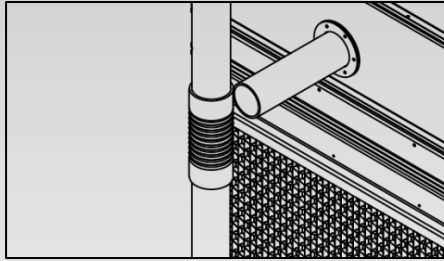
Table 2 Range of Upper Section Lifting Position

Model	Minimum dimension
	H
EC7-0550	2.0 m.
EC7-0700	2.0 m.
EC7-0800	3.0 m.
EC7-1000	3.0 m.
EC7-1250	3.5 m.
EC7-1350	3.5 m.
EC7-1500	3.5 m.
EC7-1550	2.5 m.
EC7-1700	2.5 m.
EC7-1800	3.5 m.
EC7-2000	4.5 m.
EC7-2350	4.5 m.
EC7-2550	4.5 m.
EC7-2800	4.5 m.
EC7-3100	4.5 m.
EC7-3300	4.5 m.
EC7-3550	4.5 m.
EC7-3700	4.5 m.
EC7-3900	4.5 m.

Figure 7 Lifting Pattern and Position

Upper Section Lifting and Assembling with Lower Section

Lift the upper section to install on the lower section. The anchor points of the upper and lower section should be in the same position. Use the tool to arrange the hole position, as shown in Figure 10, and attach the upper section to the lower section, as shown in Figure 11. Nuts are in the hardware box in the basin.



Remark: Ensure that the whirlpool duct is placed in the rubber duct before assembling the upper section with the lower section to prevent the whirlpool duct to press the rubber duct and cause damage.

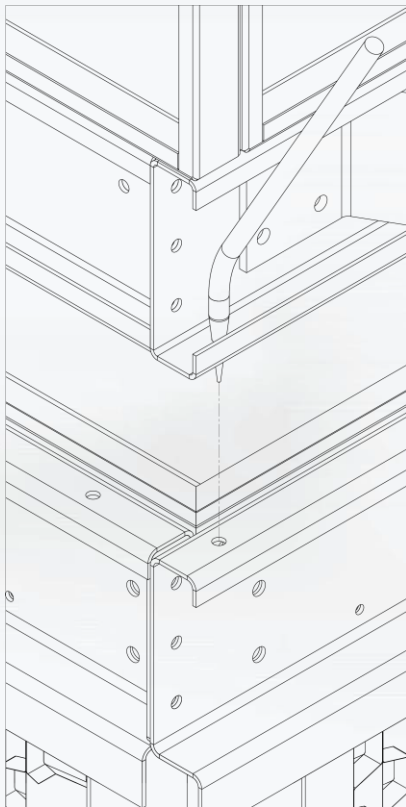
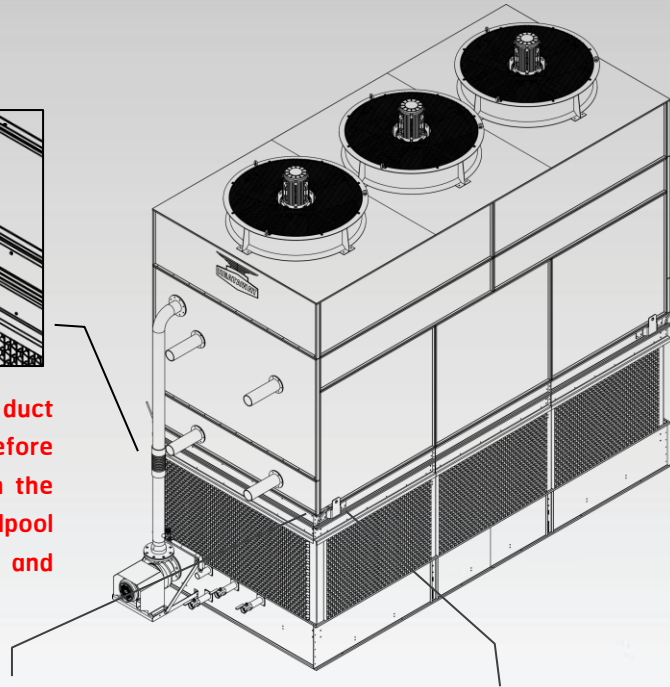
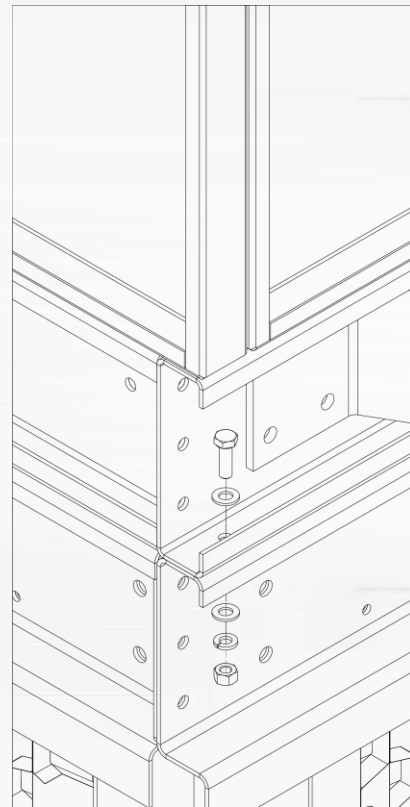


Figure 8 Tool for Hole Positioning



M 8
ขนาดทอรึงขัน 17 Nm

Figure 9 Attach Upper Section with Lower Section

Power connection between the fan motor and circulating pump

Power connection should be executed by the electrician who is certified by the regulations and conditions of the region.

Remark: Before removing the power box cover, ensure there is no connection to the power supply or the supply is already cut.

Voltage and frequency are identified on the label on the pump motor. Please check that the motor suits the power supply. The power connection should follow the power connection diagram shown inside the cover. Wiring to the motor power box should not use any conduit to prevent water from getting into and damaging the motor. The determined type of wire is NYY or VCT, which resists the external environment, as shown in Figure 10. After wiring to the power box, tighten the cable gland firmly at the required torque shown in the table below. Close the power box cover with the determined torque and check the rubber seal.

Instruction: After wiring, shot silicone at the cable gland and surrounding area of the power box cover to prevent water.

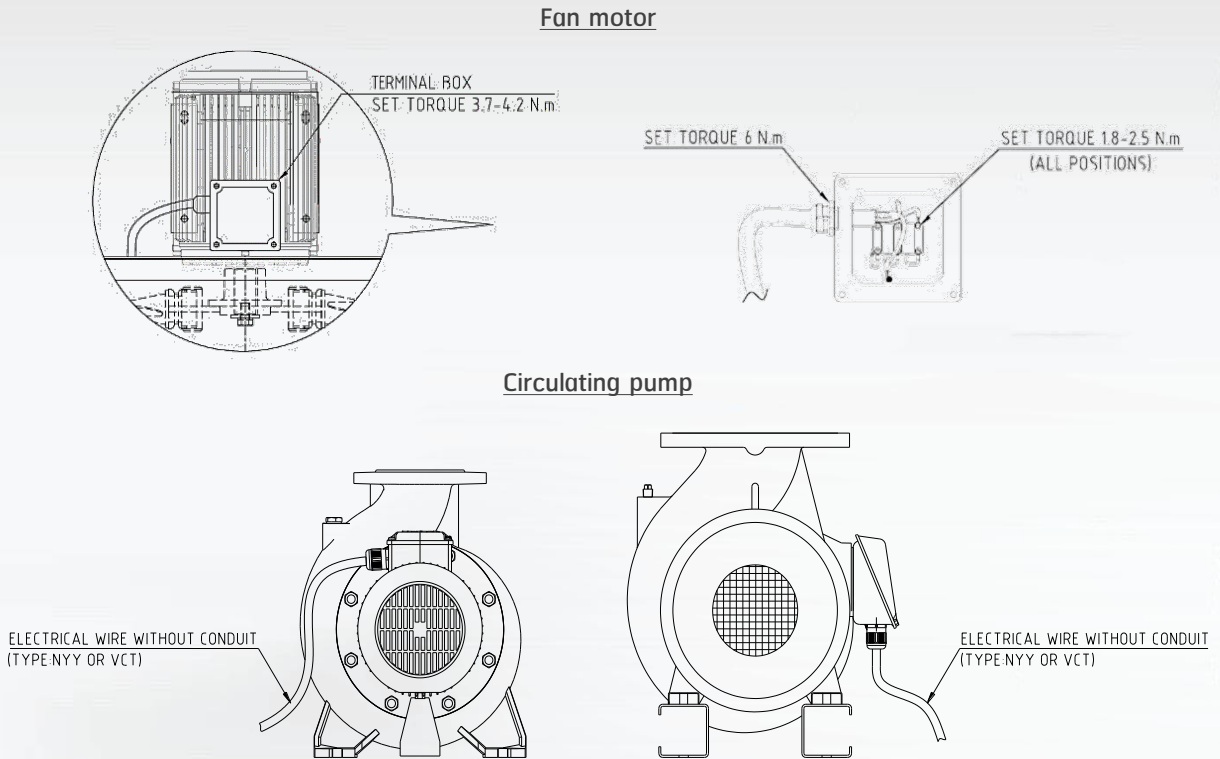


Figure 10 Wiring of Fan Motor and Circulating Pump

Cable Gland	Cable Diameter (mm)	Torque (Nm)+/-10%
M25 x 1.5	10.0 – 17.0	4
M32 x 1.5	17.0 – 25.0	6

Cable Gland Torque

Float Assembly

Float set in the hardware box in the basin. See Figure 11 for assembly.

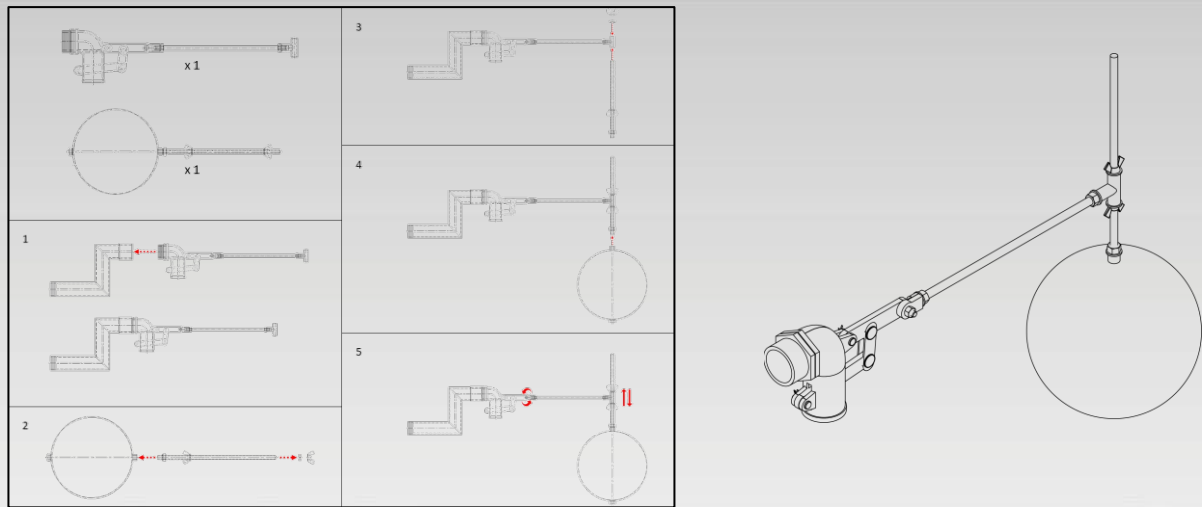


Figure 11 Float Set Assembly

Instruction for Installation

Install the body to the cooling system. The installer welding assembles the valve set to the piping system by cutting and welding the hot gas line and return pipe. The installer must process carefully. Moreover, piping system welding must be executed by an operator who is an expert in welding. The step is as follows.

1. Drain nitrogen from the machine.
2. Use a fireproof cloth to cover the machine at the grinding or welding area to prevent the splash from scattering over the machine, which causes rust.

Remark: Welding should be processed by a technician who is an expert in welding.

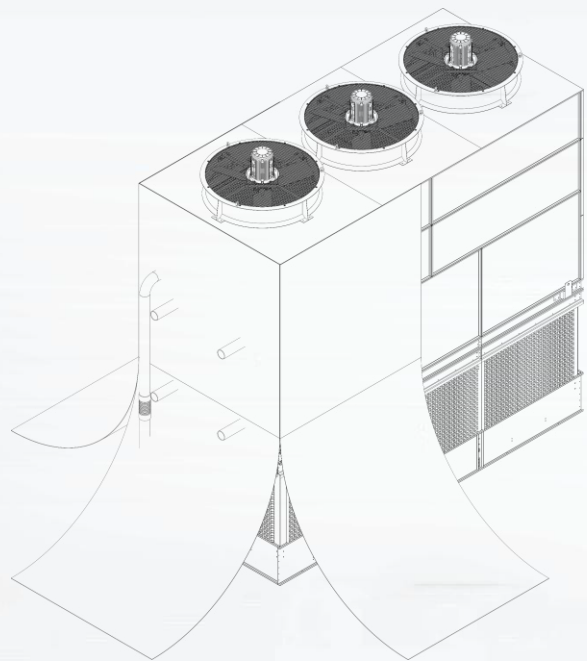


Figure 12 Fireproof Cloth Covering Machine

Any problems with lifting, assembly, and installation, please contact the supplier or Heataway Co., Ltd. at the address and phone number below.