HEATAWAY

BRAND-NEW 9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Landed by truck

EC9 MODEL AND ADDITIONAL EQUIPMENT



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“ความคุ้มค่าที่เหนือกว่า พร้อม คุณภาพระดับโลก”

คู่มือการติดตั้งฉบับนี้จัดทำขึ้นเพื่อเป็นแนวทางสำหรับการประกอบและติดตั้ง Evaporative Condenser EC9 ซึ่งได้รับการออกแบบให้มีประสิทธิภาพสูง ทนทาน และคุ้มค่า โดยใช้วัสดุสเตนเลสสตีลเกรดพรีเมียม

ภายในคู่มือประกอบด้วยขั้นตอนการปฏิบัติงานอย่างละเอียดแบบลำดับขั้น ตั้งแต่การประกอบชิ้นส่วนแต่ละส่วน ไปจนถึงการติดตั้งอุปกรณ์เพิ่มเติม สำหรับรุ่นที่มีขนาดพื้นที่ติดตั้ง (Footprint) แตกต่างกัน ผู้ใช้งานสามารถอ้างอิงตารางที่ระบุไว้ในคู่มือนี้ เพื่อปฏิบัติตามแนวทางการประกอบเฉพาะรุ่น และเพื่อให้การติดตั้งเป็นไปอย่างถูกต้องและราบรื่น

หวังเป็นอย่างยิ่งว่าคู่มือฉบับนี้จะเป็นแหล่งข้อมูลที่มีประโยชน์ และช่วยสนับสนุนกระบวนการติดตั้งให้ดำเนินไปอย่างมีประสิทธิภาพ

Footprint	Model
7' X 9' (2.3 X 2.7 m)	EC9-0510-0709L-S EC9-0620-0709L-S EC9-0710-0709L-S EC9-0750-0709L-S EC9-0860-0709L-L EC9-0910-0709L-L
7' X 12' (2.3 X 3.6 m)	EC9-0960-0712L-L EC9-1000-0712L-S EC9-1120-0712L-M EC9-1200-0712L-L EC9-1270-0712L-M EC9-1320-0712L-M EC9-1370-0712L-L EC9-1410-0712L-L
7' X 18' (2.3 X 5.5 m)	EC9-1300-0718L-S EC9-1520-0718L-L EC9-1570-0718L-S EC9-1750-0718L-M EC9-1760-0818L-S EC9-1990-0718L-M EC9-2060-0718L-M EC9-2140-0718L-L EC9-2200-0718L-L
10' X 12' (3.0 X 3.6 m)	EC9-1400-1012L-S EC9-1600-1012L-M EC9-1660-1012L-L EC9-1840-1012L-M EC9-1920-1012L-L EC9-2000-1012L-M EC9-2080-1012L-L

Footprint	Model
10' X 18' (3.0 X 5.5 m)	EC9-2250-1018L-S EC9-2520-1018L-M EC9-2550-1018L-S EC9-2860-1018L-M EC9-2990-1018L-L EC9-3120-1018L-M EC9-3250-1018L-L
12' X 12' (3.6 X 3.6 m)	EC9-1650-1212L-S EC9-1890-1212L-M EC9-1980-1212L-L EC9-2150-1212L-M EC9-2350-1212L-M EC9-2460-1212L-L
12' X 18' (3.6 X 5.5 m)	EC9-2600-1218L-S EC9-2950-1218L-S EC9-3010-1218L-M EC9-3400-1218L-M EC9-3730-1218L-M EC9-3900-1218L-L

สารบัญ: คู่มือการติดตั้ง

1. ตำแหน่งการวางเครื่อง Evaporative Condenser
2. ขั้นตอนการติดตั้งโดยรวม
3. ข้อควรระวังในการยก เคลื่อนย้าย และติดตั้ง (สำหรับรุ่นเคลือบสี)
4. เครื่องมือที่ต้องใช้ในการติดตั้ง
5. คู่มือการติดตั้ง รุ่น EC9 แต่ละ Footprint

Footprint	Model	Page
7' X 9' (2.3 X 2.7 m)	EC9-0510-0709L-S EC9-0620-0709L-S EC9-0710-0709L-S EC9-0750-0709L-S EC9-0860-0709L-L EC9-0910-0709L-L	8
7' X 12' (2.3 X 3.6 m)	EC9-0960-0712L-L EC9-1000-0712L-S EC9-1120-0712L-M EC9-1200-0712L-L EC9-1270-0712L-M EC9-1320-0712L-M EC9-1370-0712L-L EC9-1410-0712L-L	15
7' X 18' (2.3 X 5.5 m)	EC9-1300-0718L-S EC9-1520-0718L-L EC9-1570-0718L-S EC9-1750-0718L-M EC9-1760-0718L-S EC9-1990-0718L-M EC9-2060-0718L-M EC9-2140-0718L-L EC9-2200-0718L-L	22
10' X 12' (3.0 X 3.6 m)	EC9-1400-1012L-S EC9-1600-1012L-M EC9-1660-1012L-L EC9-1840-1012L-M EC9-1920-1012L-L EC9-2000-1012L-M EC9-2080-1012L-L	29
10' X 18' (3.0 X 5.5 m)	EC9-2250-1018L-S EC9-2520-1018L-M EC9-2550-1018L-S EC9-2860-1018L-M EC9-2990-1018L-L EC9-3120-1018L-M EC9-3250-1018L-L	34
12' X 12' (3.6 X 3.6 m)	EC9-1650-1212L-S EC9-1890-1212L-M EC9-1980-1212L-L EC9-2150-1212L-M EC9-2350-1212L-M EC9-2460-1212L-L	39
12' X 18' (3.6 X 5.5 m)	EC9-2600-1218L-S EC9-2950-1218L-S EC9-3010-1218L-M EC9-3400-1218L-M EC9-3730-1218L-M EC9-3900-1218L-L	44

สารบัญ: คู่มือการติดตั้ง

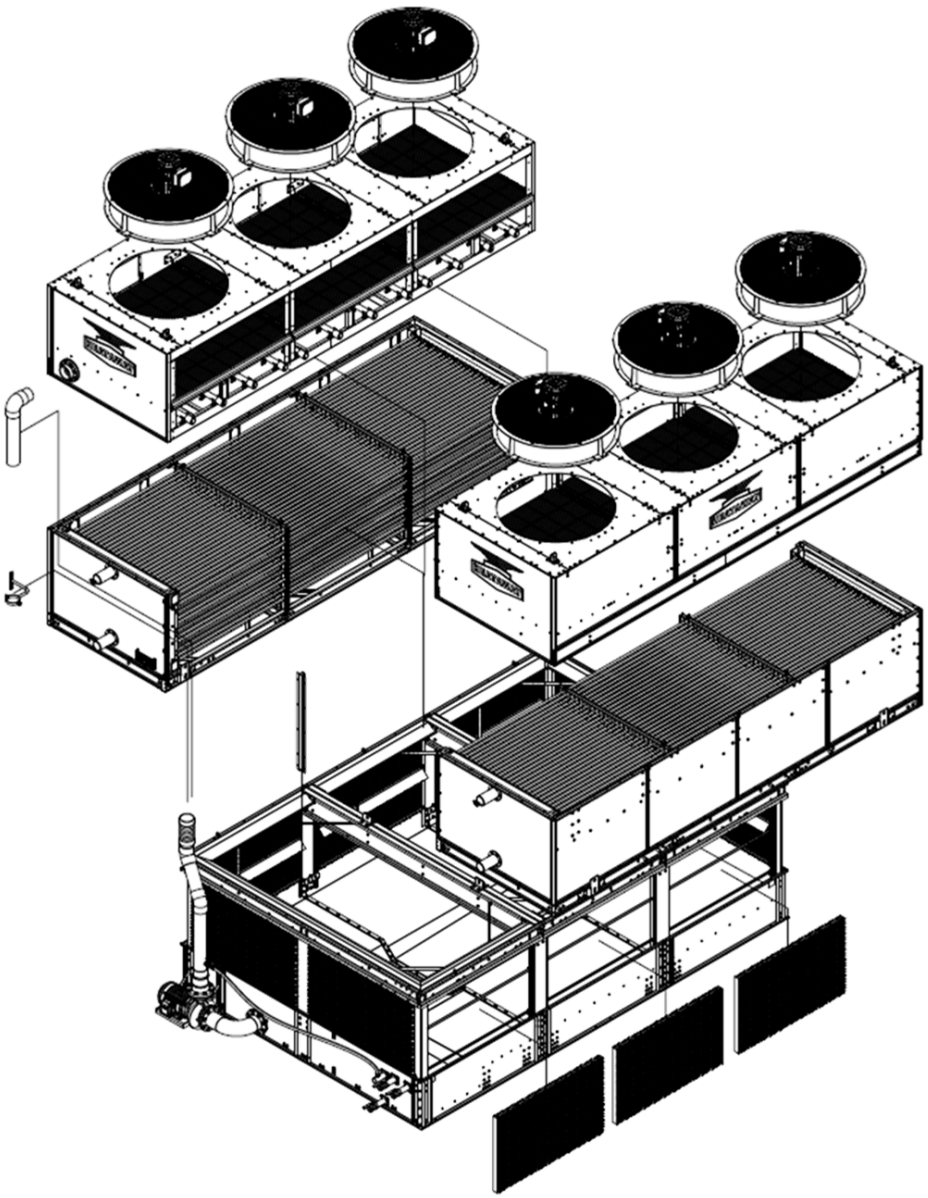
6. การติดตั้งอุปกรณ์เสริมของรุ่น EC9

Equipment	Details	Page
Standby Water pump	Additional Standby Water pump	50
Ladder	Standard Ladder and Customize Ladder	53
Platform	Platform for footprint Length 9' Platform for footprint Length 12' Platform for footprint Length 18'	54 57 60
Top Handrail	Standard Top Handrail	65
Cage	Standard cage Addition cage	66

ขั้นตอนการติดตั้งโดยรวม

กระบวนการประกอบเครื่อง Evaporative Condenser ได้จัดลำดับขั้นตอนไว้อย่างชัดเจนและเป็นระบบ โดยเริ่มจากส่วนถาดรองน้ำ (Basin Section) ตามด้วยส่วนคอยล์ (Coil Section) และสิ้นสุดที่ส่วนพัดลม (Fan Section)

ในแต่ละขั้นตอนมีคำอธิบายอย่างละเอียด พร้อมภาพประกอบที่สอดคล้องกัน เพื่อให้การประกอบเป็นไปอย่างถูกต้อง แม่นยำ และสะดวกต่อการปฏิบัติงาน



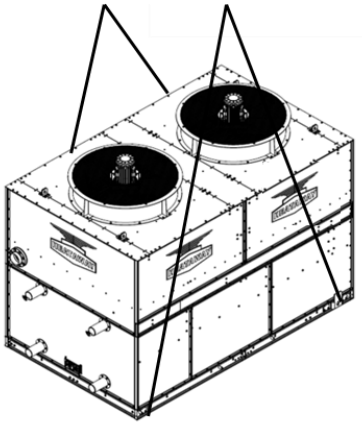
Step3
FAN Section

Step2
Coil Section

Step1
Basin Section

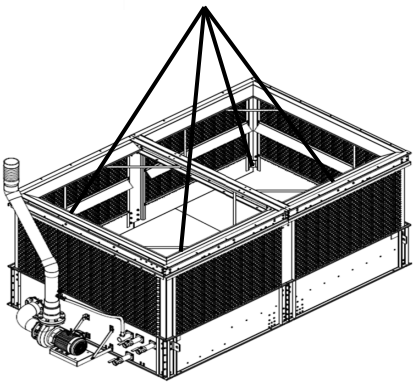
ข้อควรระวังในการยก เคลื่อนย้าย และติดตั้ง
(สำหรับรุ่นเคลือบสี)

ระหว่างการเคลื่อนย้ายหรือการติดตั้ง ต้องระมัดระวังไม่ให้สลิงสัมผัสหรือขูดขีดผิวตัวเครื่อง โดยเฉพาะบริเวณที่มีการเคลือบผิว



1. ควรใช้วัสดุรองรับที่มีความนุ่มบริเวณจุดสัมผัสของสลิง หรือจุดยก เพื่อป้องกันความเสียหายต่อผิวตัวเครื่อง ขณะยกหรือเคลื่อนย้าย

2. ในระหว่างปฏิบัติงานใกล้ตัวเครื่อง หากมีความเสี่ยงที่ผิวเคลือบจะถูกกระแทกหรือขีดข่วน ต้องใช้ผ้าหรือวัสดุป้องกัน คลุมพื้นผิวทุกครั้ง

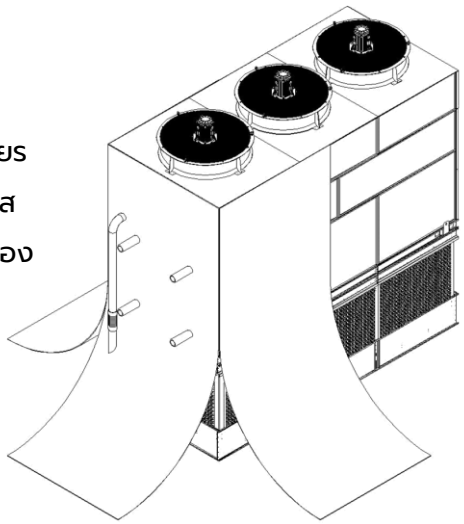


หลังจากจัดวางตำแหน่งเครื่องเรียบร้อยแล้ว ผู้ติดตั้งต้องดำเนินการเชื่อมและประกอบชุดวาล์วเข้ากับระบบท่อ ซึ่งรวมถึงการตัดและเชื่อมท่อ Hot Gas และท่อ Liquid Return ของเครื่อง

การปฏิบัติงานต้องดำเนินการด้วยความระมัดระวังอย่างสูง และงานเชื่อมท่อจะต้องดำเนินการโดยช่างเชื่อมที่มีคุณสมบัติและความชำนาญเฉพาะทาง โดยให้ปฏิบัติตามขั้นตอนดังต่อไปนี้:

1. ระบายก๊าซไนโตรเจนออกจากตัวเครื่องให้หมดก่อนดำเนินการ

2. คลุมตัวเครื่องทั้งหมดด้วยผ้าห่มกันไฟ (Fire-Resistant Blanket) ในบริเวณที่มีการเจียรหรืองานเชื่อม เพื่อป้องกันสะเก็ดไฟกระเด็นสัมผัสตัวเครื่อง เนื่องจากสะเก็ดไฟอาจทำให้พื้นผิวเครื่องเกิดสนิมได้



หมายเหตุ: งานเชื่อมต้องดำเนินการโดยช่างเชื่อมที่มีความชำนาญและผ่านการรับรองเท่านั้น

เครื่องมือที่ต้องใช้ในการติดตั้ง

การเตรียมเครื่องมือสำหรับการประกอบเครื่อง
Evaporative Condenser รุ่น EC9

รายการเครื่องมือที่ใช้ในการประกอบ

1. ประแจบล็อกไฟฟ้า (Impact Wrench)
2. ลูกบล็อก ขนาด M6, M8, M10, M12, M16, M20
3. ประแจแหวน–ปากตาย ขนาด M6, M8, M10, M12, M16, M20
4. ข้อต่ออ่อน (Universal Joint)
5. ปืนยิงซิลิโคน (Silicone Sealant Gun)
6. ค้อนยาง (Rubber Hammer/Mallet)



Impact Wrench



Sockets



Combination Wrenches



Universal Joint



Silicone Sealant Gun



Rubber hammer

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RIGGING & ASSEMBLY INSTRUCTION

Footprint

7' X 9'

Model

EC9-0510-0709L-S

EC9-0620-0709L-S

EC9-0710-0709L-S

EC9-0750-0709L-S

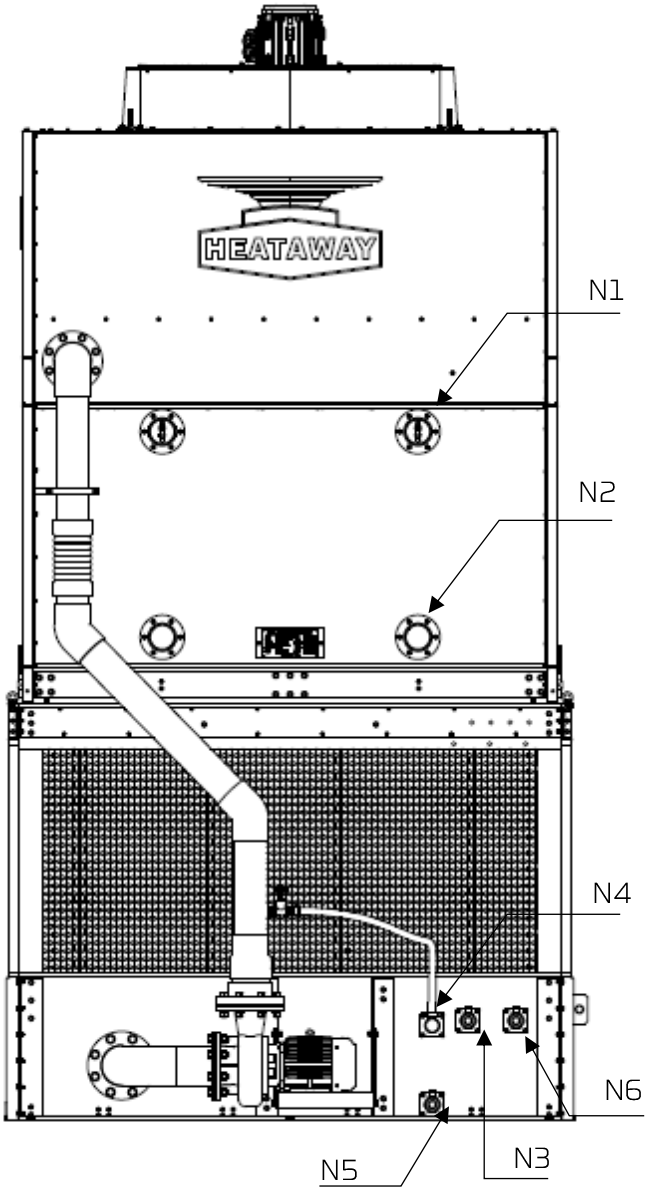
EC9-0860-0709L-L

EC9-0910-0709L-L



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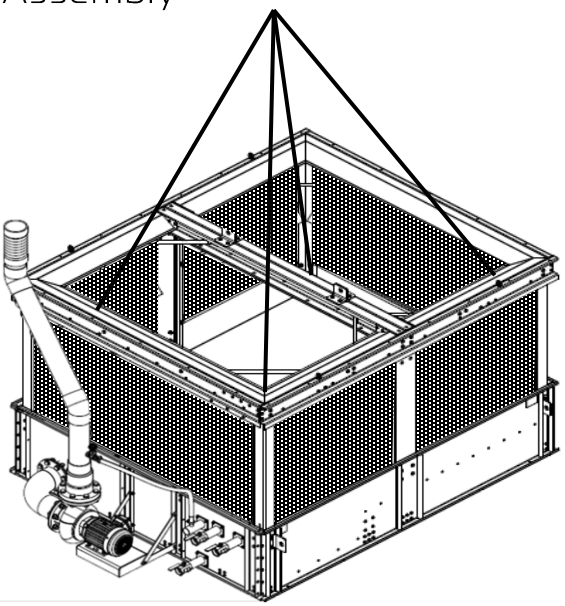
Piping Connection



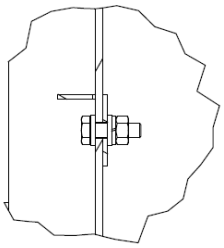
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Basin Section Assembly

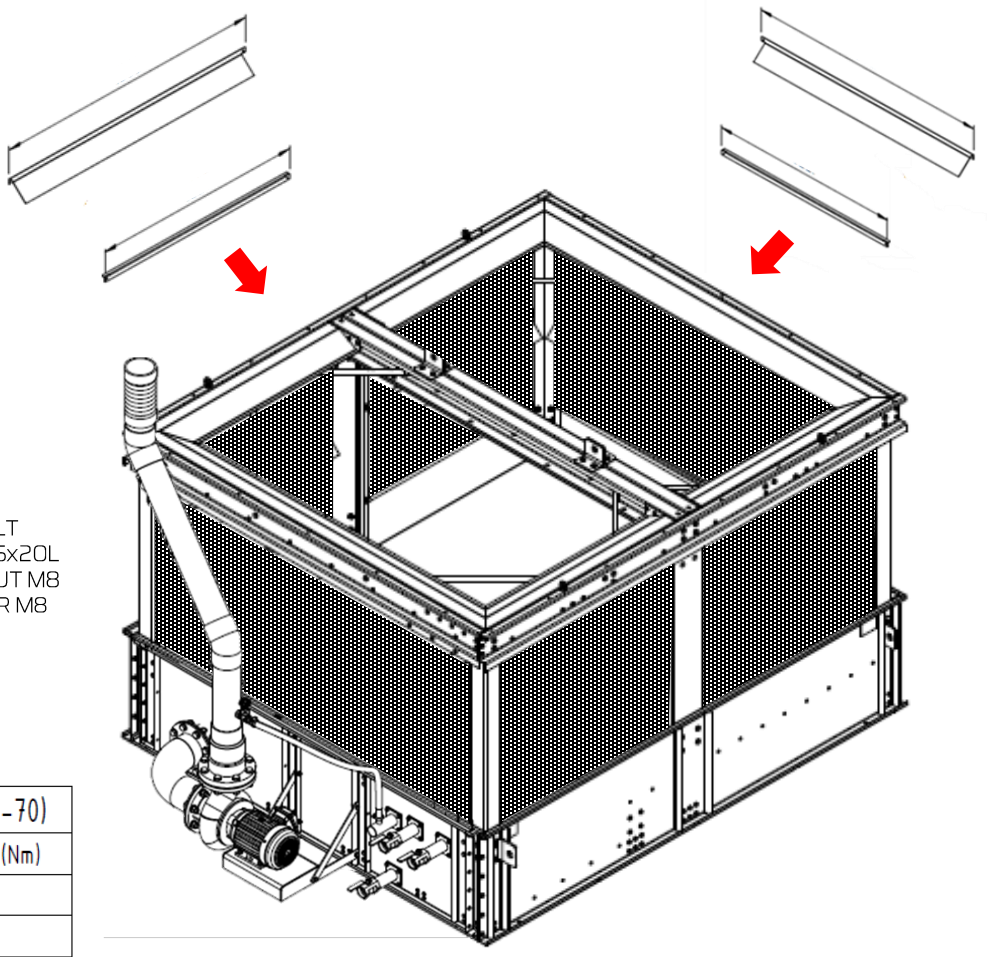
Step 1 : Move Assembled Basin to Position and Water Deflect Assembly

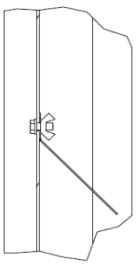


LOUVER



HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER
M6



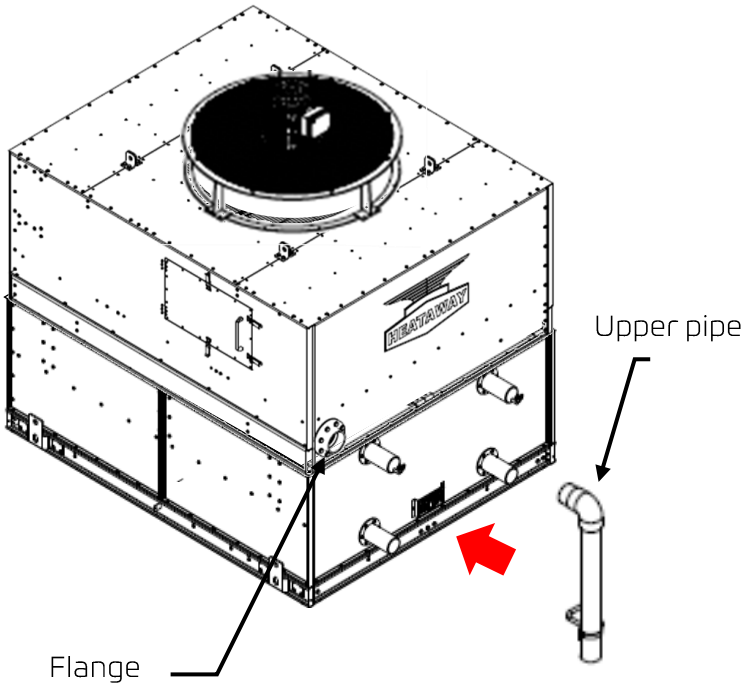


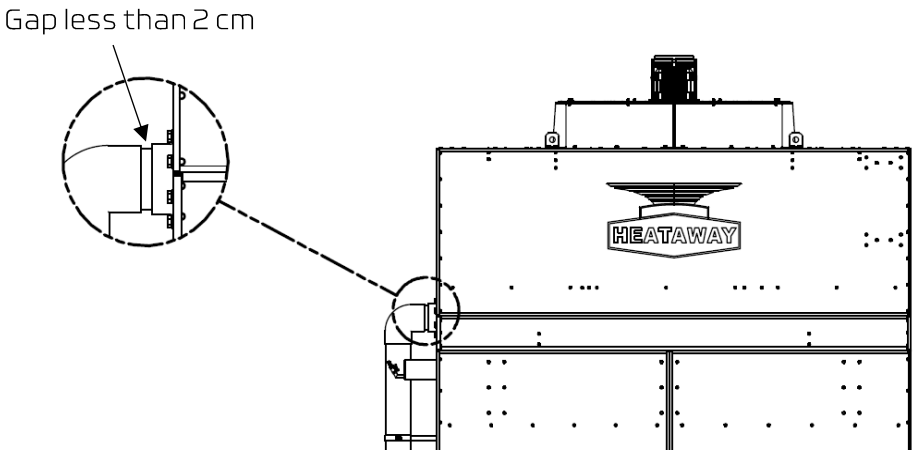
HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Assembly Upper water pipe

Step 2 : Upper water pipe Assembly

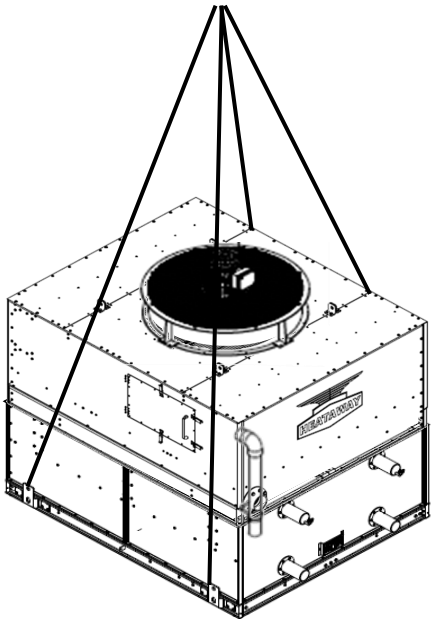


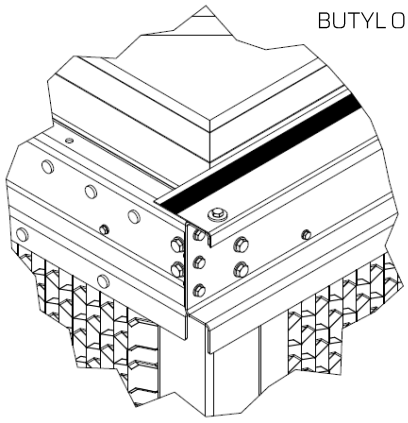


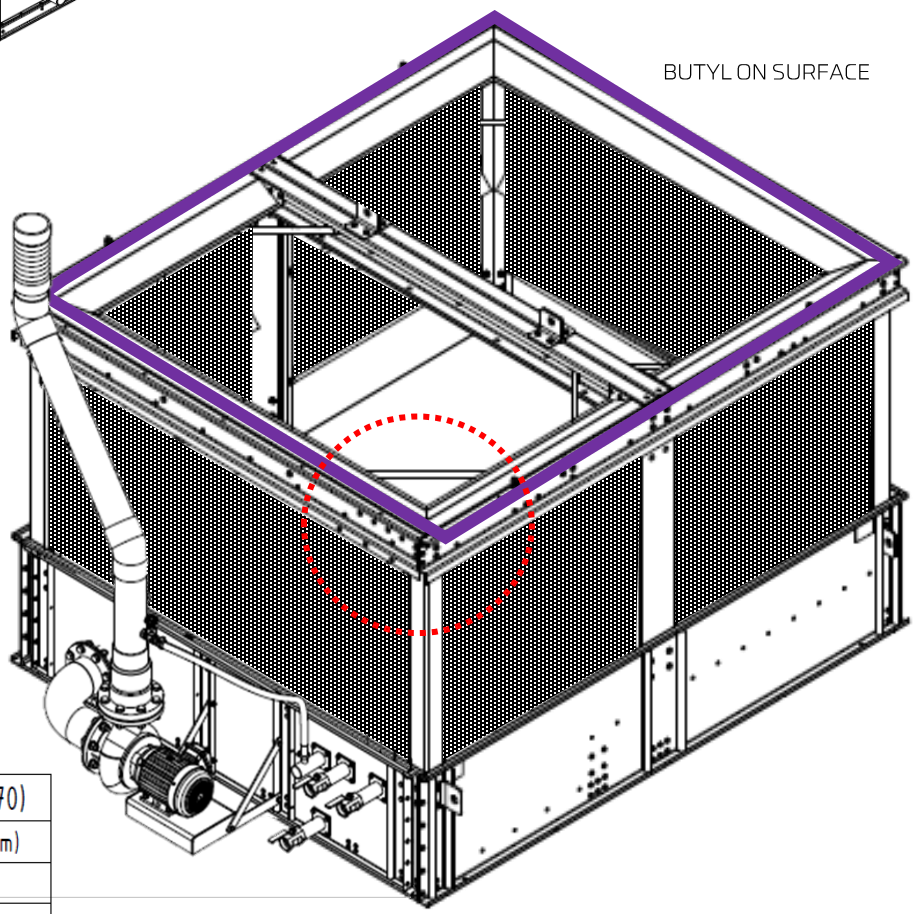
>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

Assembly Fan Section to Basin Section

Step 3 : Upper Set assembly with Basin



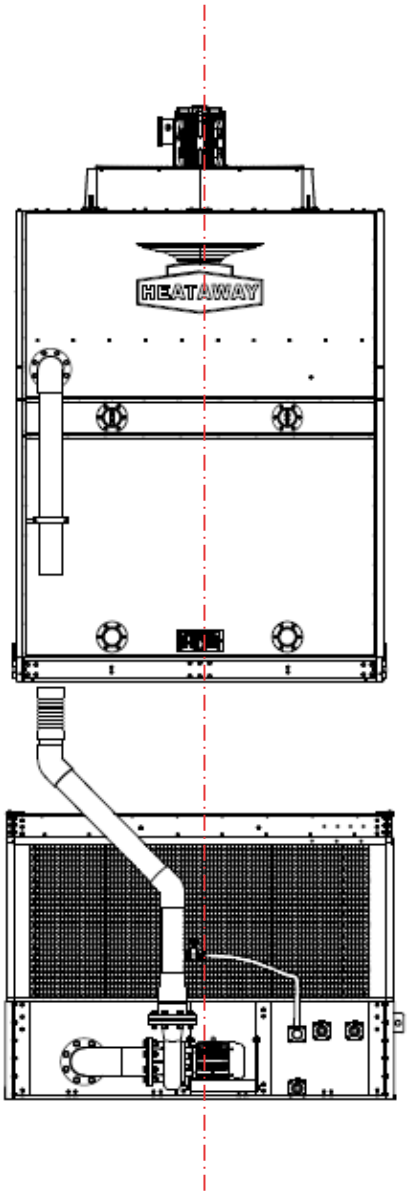




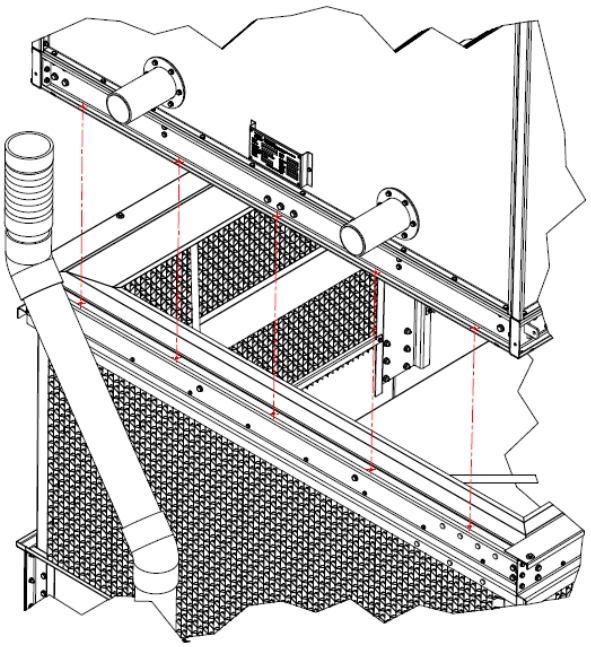
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Assembly Fan Section to Basin Section

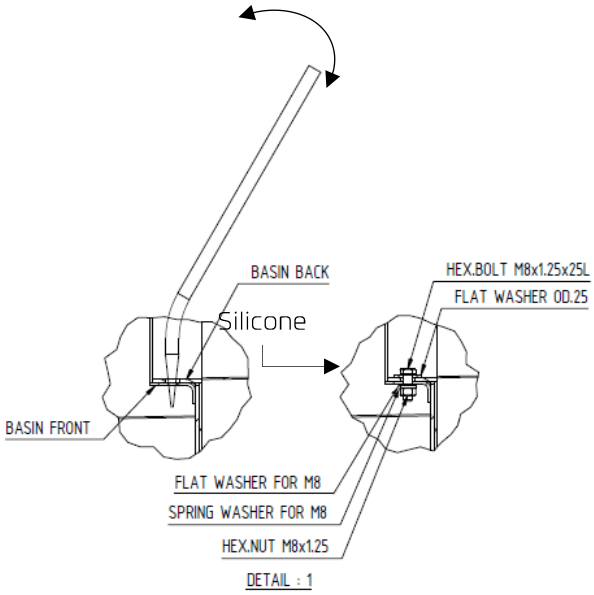
Step 3 : Upper Set assembly with Basin



Set Upper section on BASIN Section by setting in middle of BASIN Section

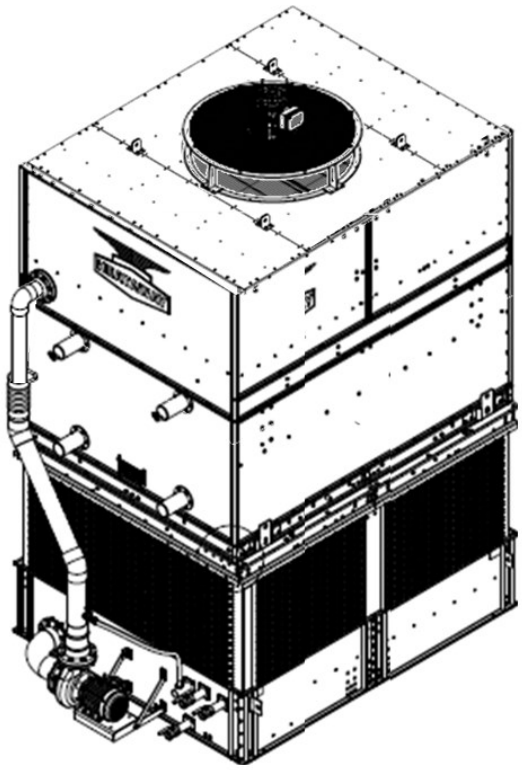


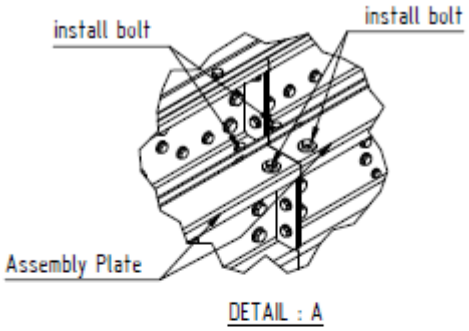
Use rod guide for guide upper section and BASIN Section and make sure front side and back side are in position before assembly

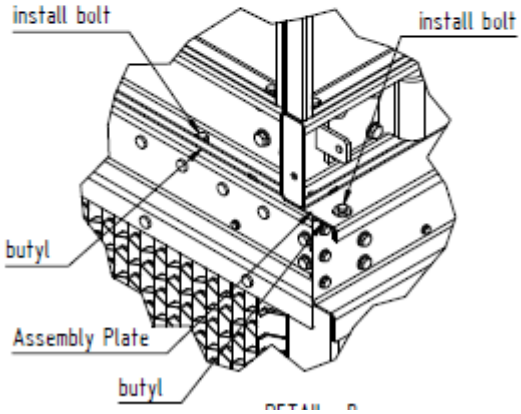


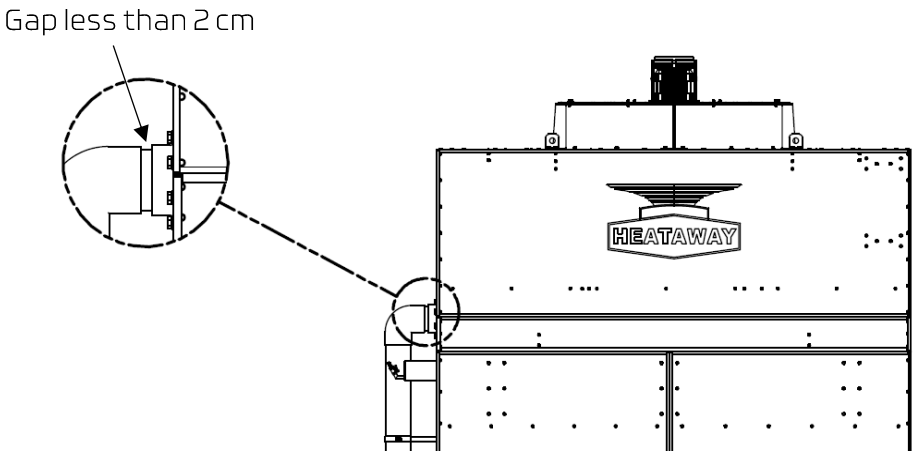
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 4 : Upper Set assembly









TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

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BRAND-NEW 9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

7' X 12'

Model

EC9-0960-0712L-L

EC9-1000-0712L-S

EC9-1120-0712L-M

EC9-1200-0712L-L

EC9-1270-0712L-M

EC9-1320-0712L-M

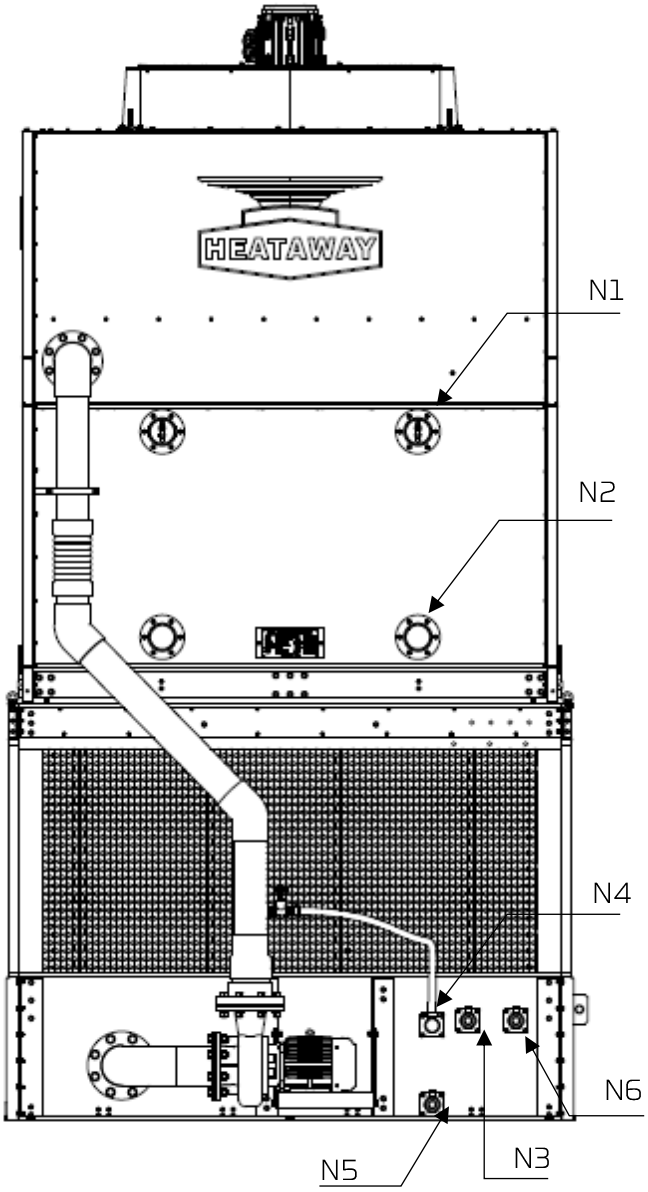
EC9-1370-0712L-L

EC9-1410-0712L-L



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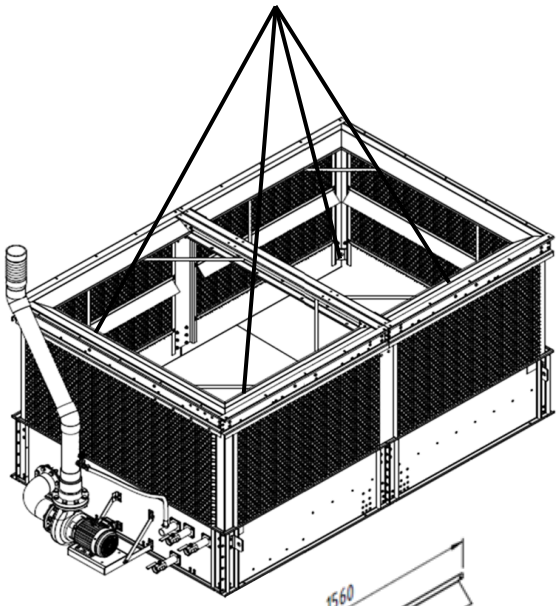
Piping Connection



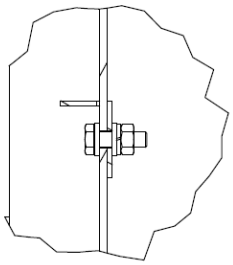
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Basin Section Assembly

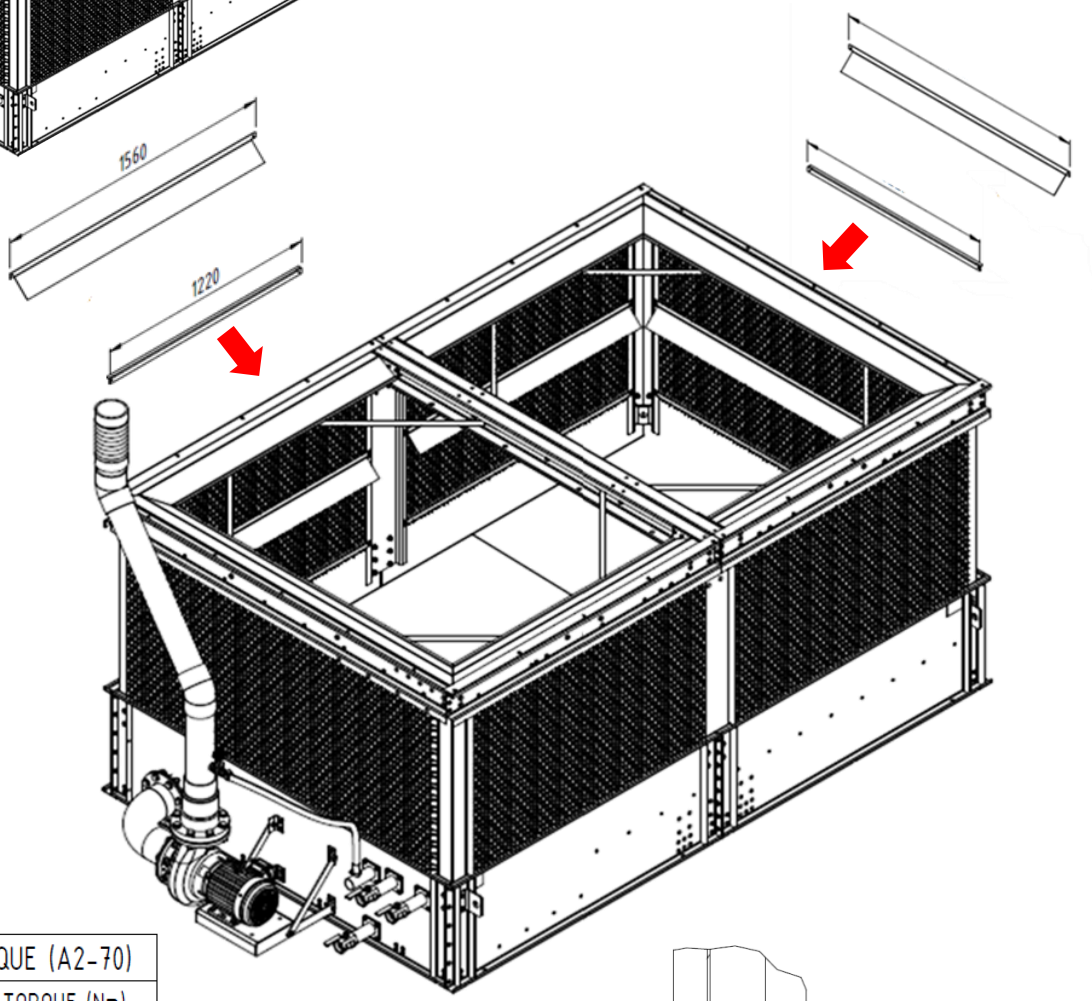
Step 1 : Move Assembled Basin to Position and Water Deflect Assembly



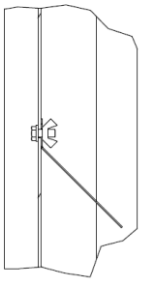
LOUVER



HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6



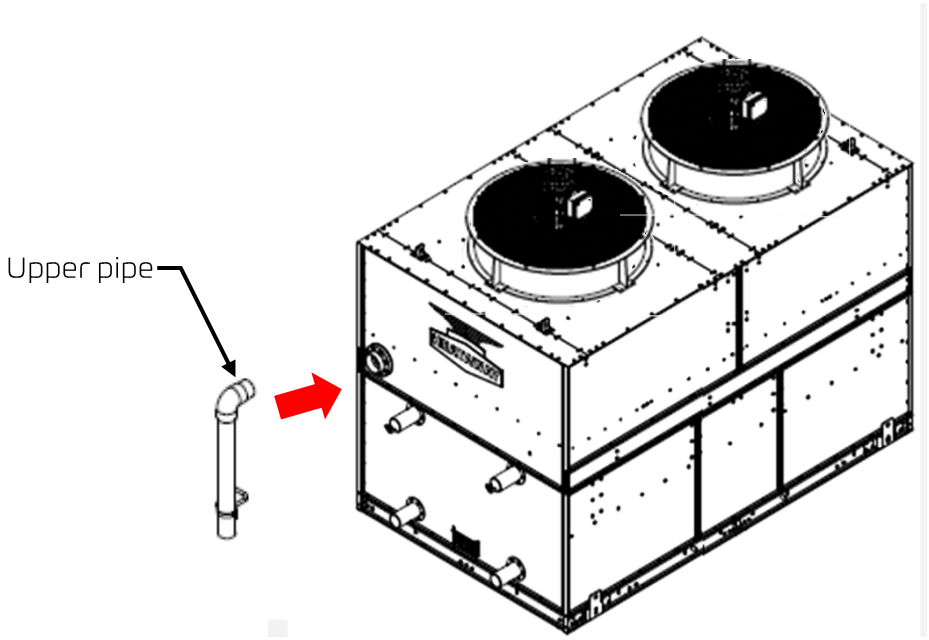
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

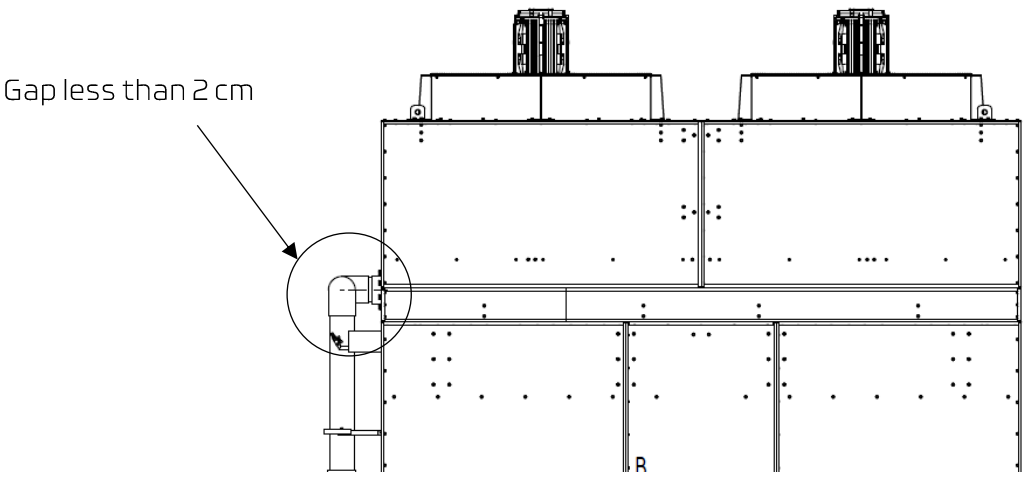


HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

Assembly Upper water pipe

Step 2 : Upper water pipe Assembly

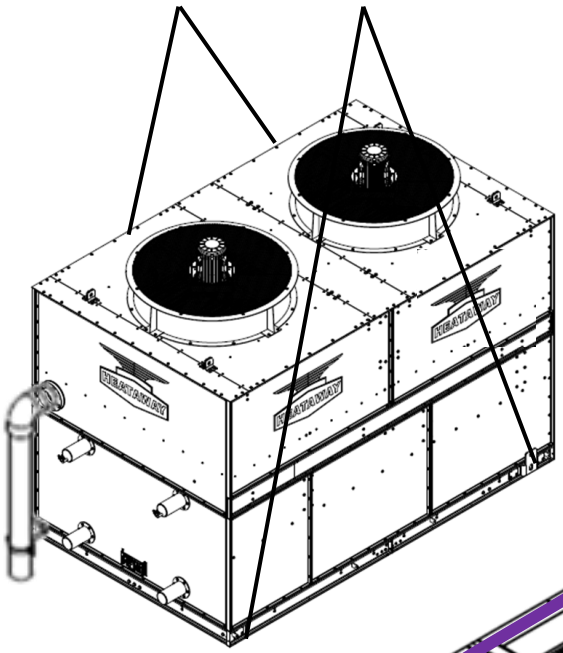


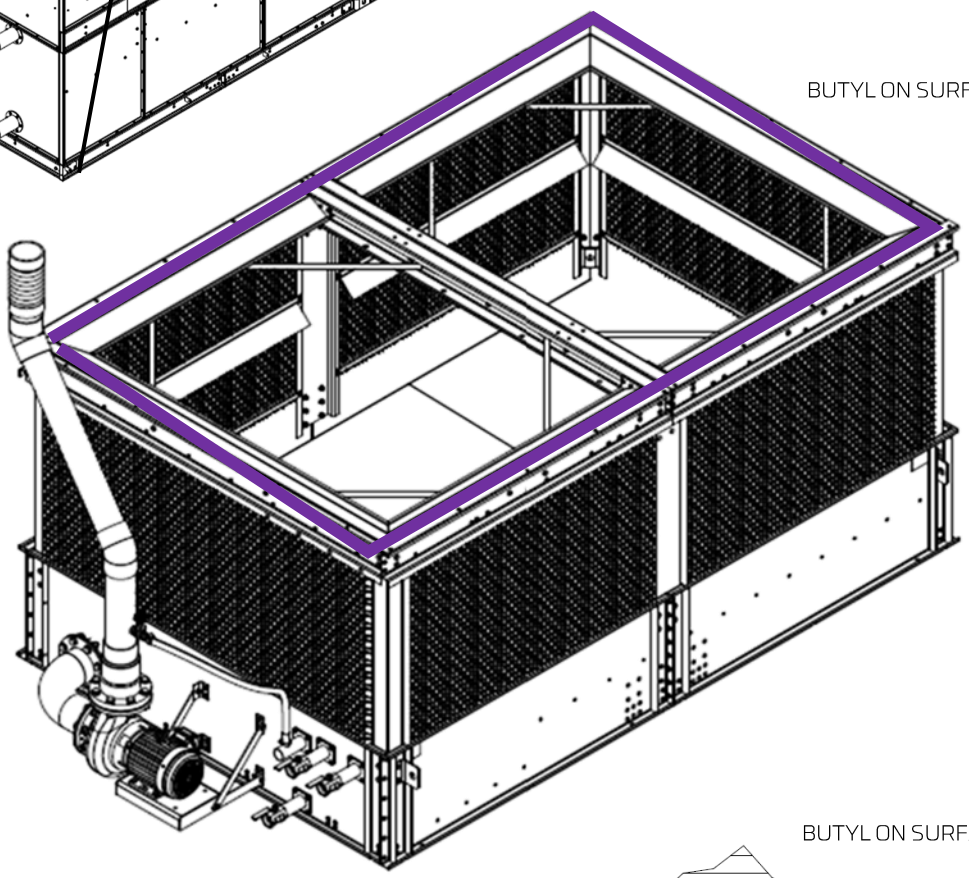


>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

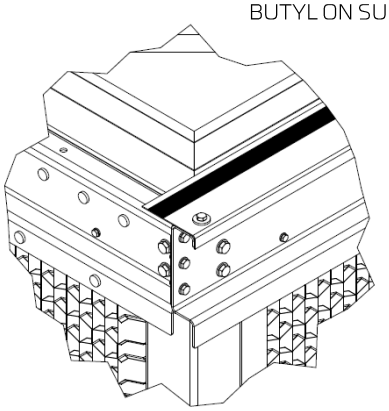
Assembly Fan Section to Basin Section

Step 3 : Upper Set assembly with Basin





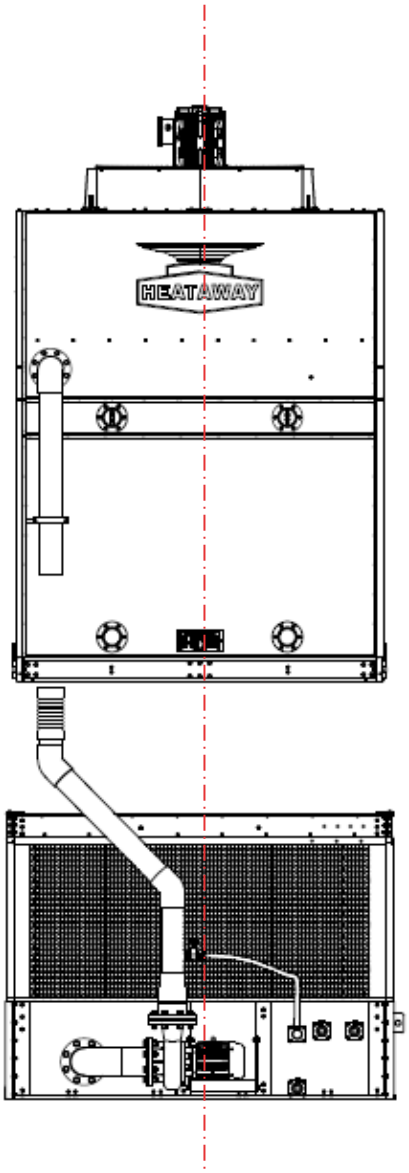
BUTYL ON SURFACE



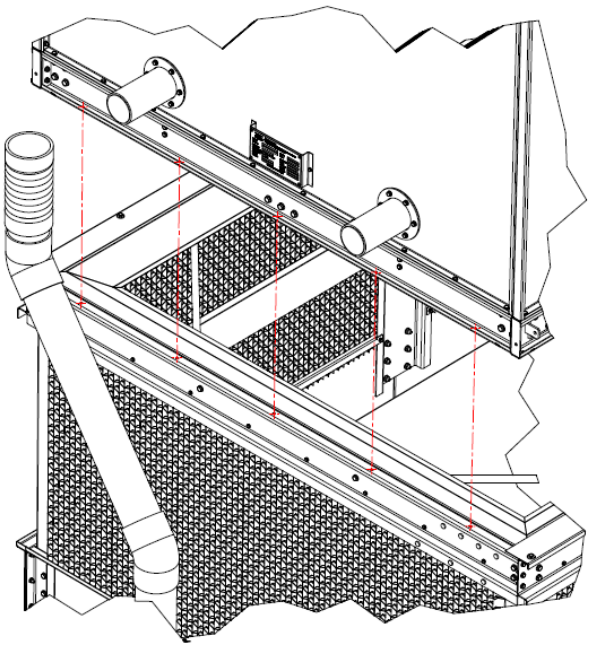
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Assembly Fan Section to Basin Section

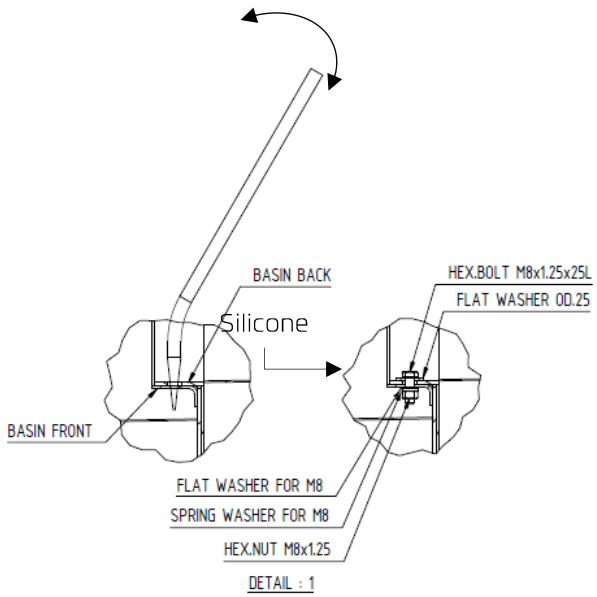
Step 3 : Upper Set assembly with Basin



Set Upper section on BASIN Section by setting in middle of BASIN Section



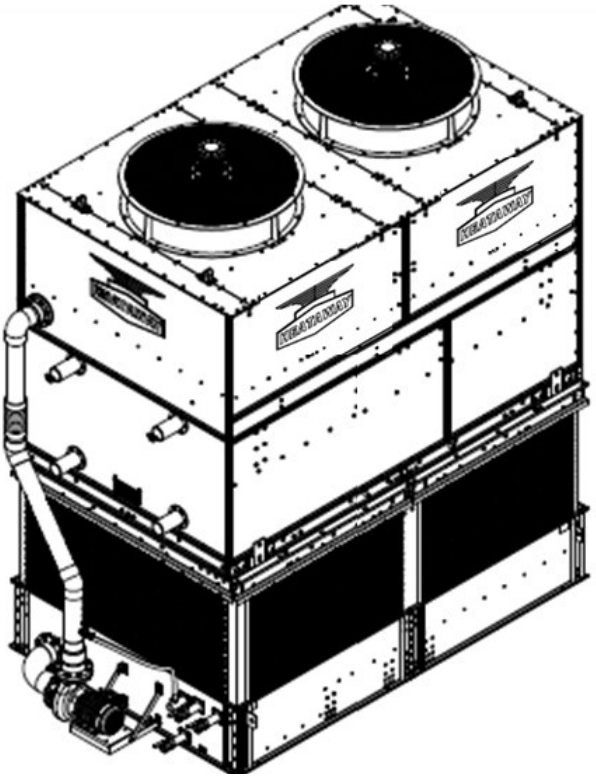
Use rod guide for guide upper section and BASIN Section and make sure front side and back side are in position before assembly

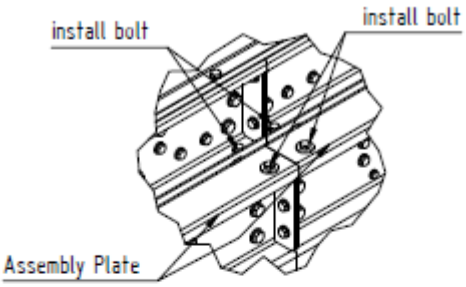


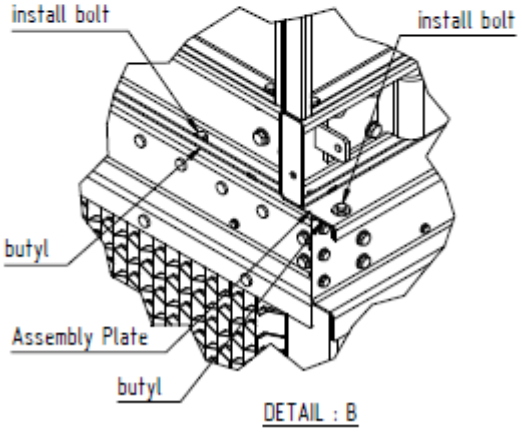
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

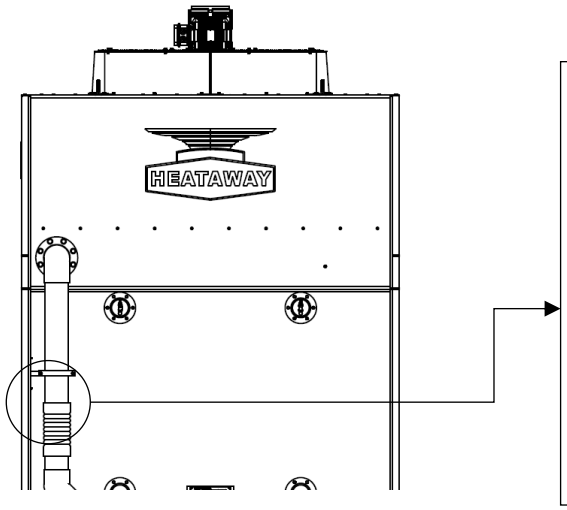
Final Assembly

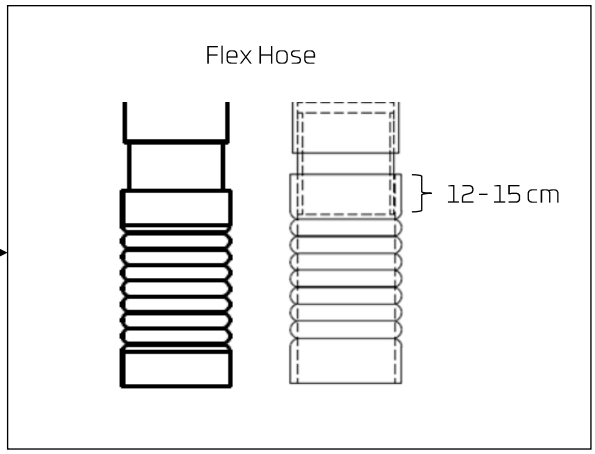
Step 4 : Upper Set assembly











TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Flex hose assembly: Insert the flex hose into the UPVC pipe with an inner depth of 12 - 15 cm to prevent leakage, then tighten securely with a hose clamp.

** Apply a lubricant such as soap to the UPVC surface to make inserting the flex hose easier.

HEATAWAY

9th GENERATION STAINLESS STEEL EVAPORATIVE CONDENSERS

RIGGING & ASSEMBLY INSTRUCTION

Footprint

7' X 18'

Model

EC9-1300-0718L-S

EC9-1520-0718L-L

EC9-1570-0718L-S

EC9-1750-0718L-M

EC9-1760-0718L-S

EC9-1990-0718L-M

EC9-2060-0718L-M

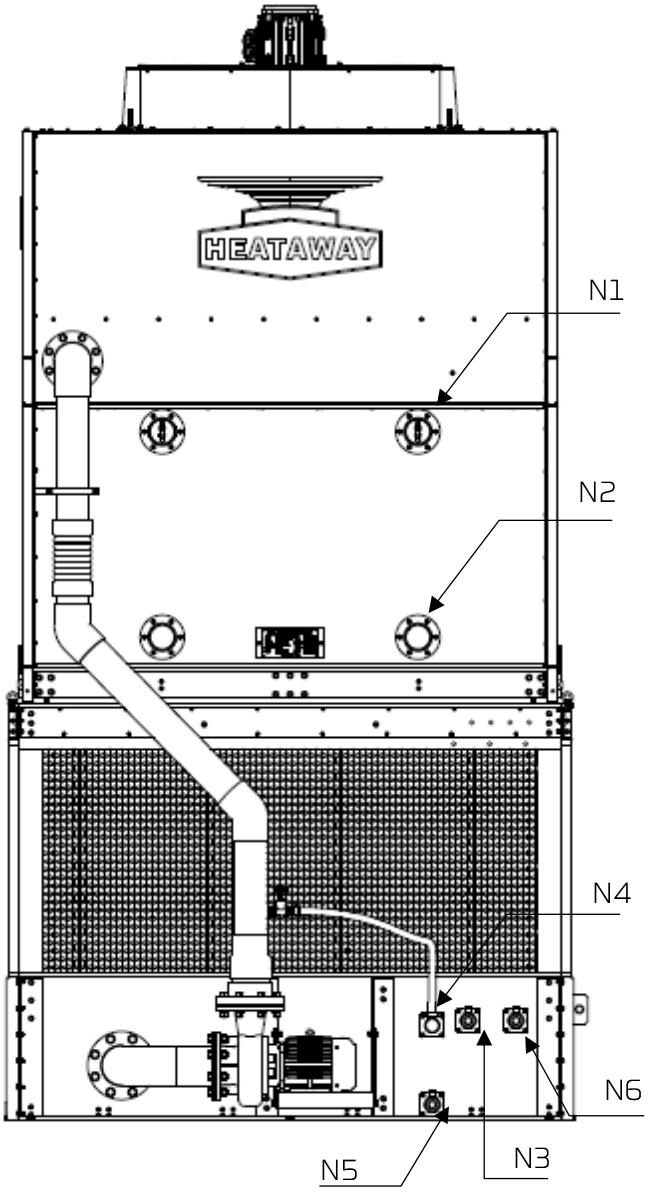
EC9-2140-0718L-L

EC9-2200-0718L-L



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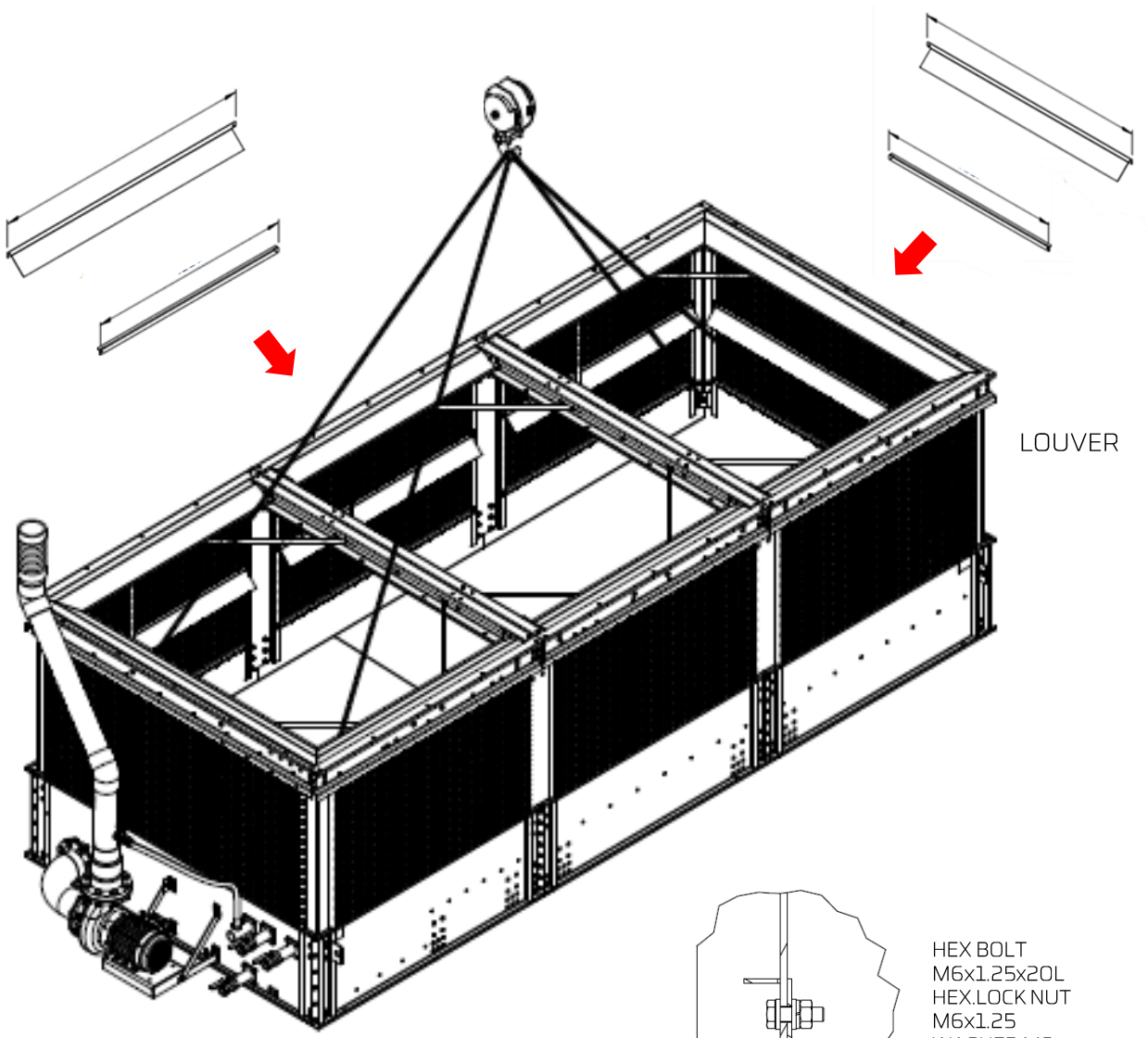
Piping Connection



PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

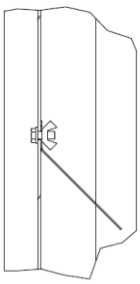
Basin Section Assembly

Step 1 : Move Assembled Basin to Position and Water Deflect Assembly



LOUVER

HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

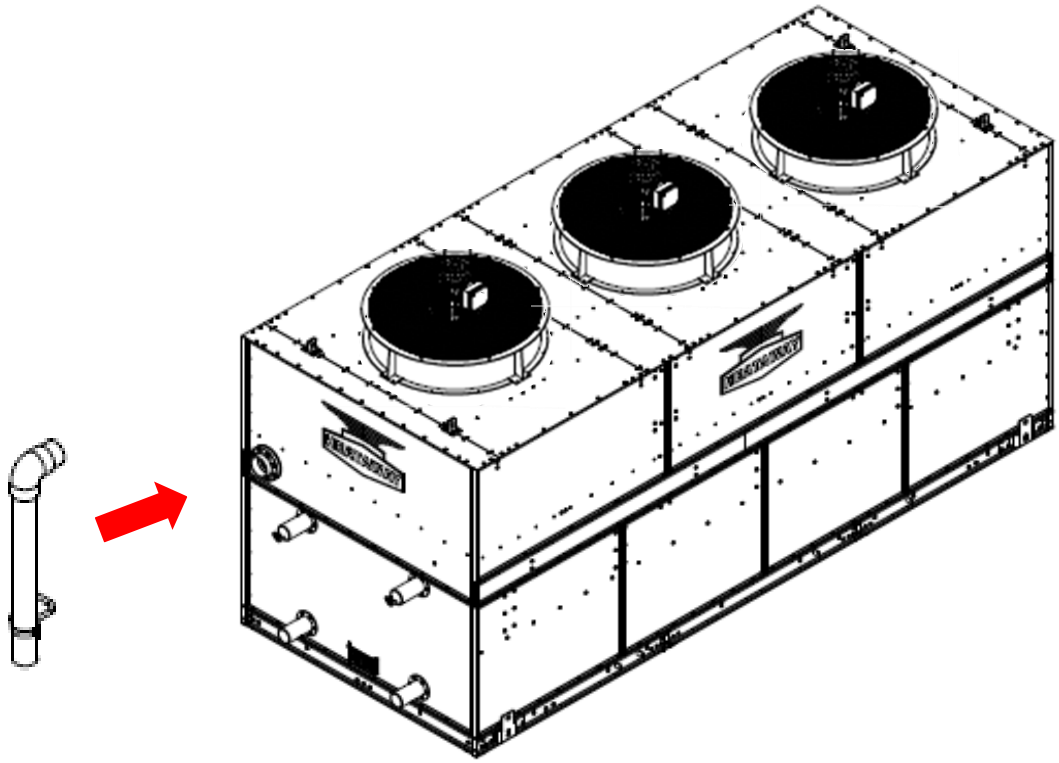


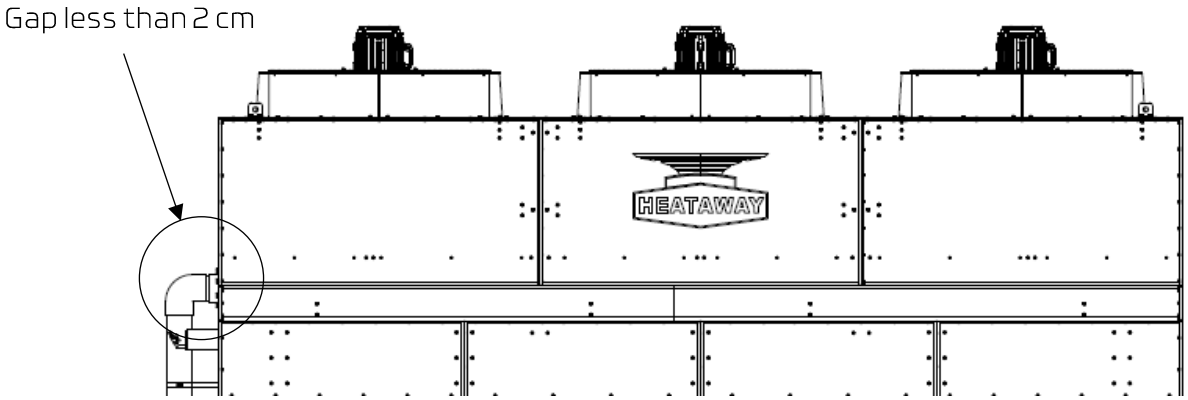
HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Upper pipe Assembly

Step 2 : Upper water pipe Assembly



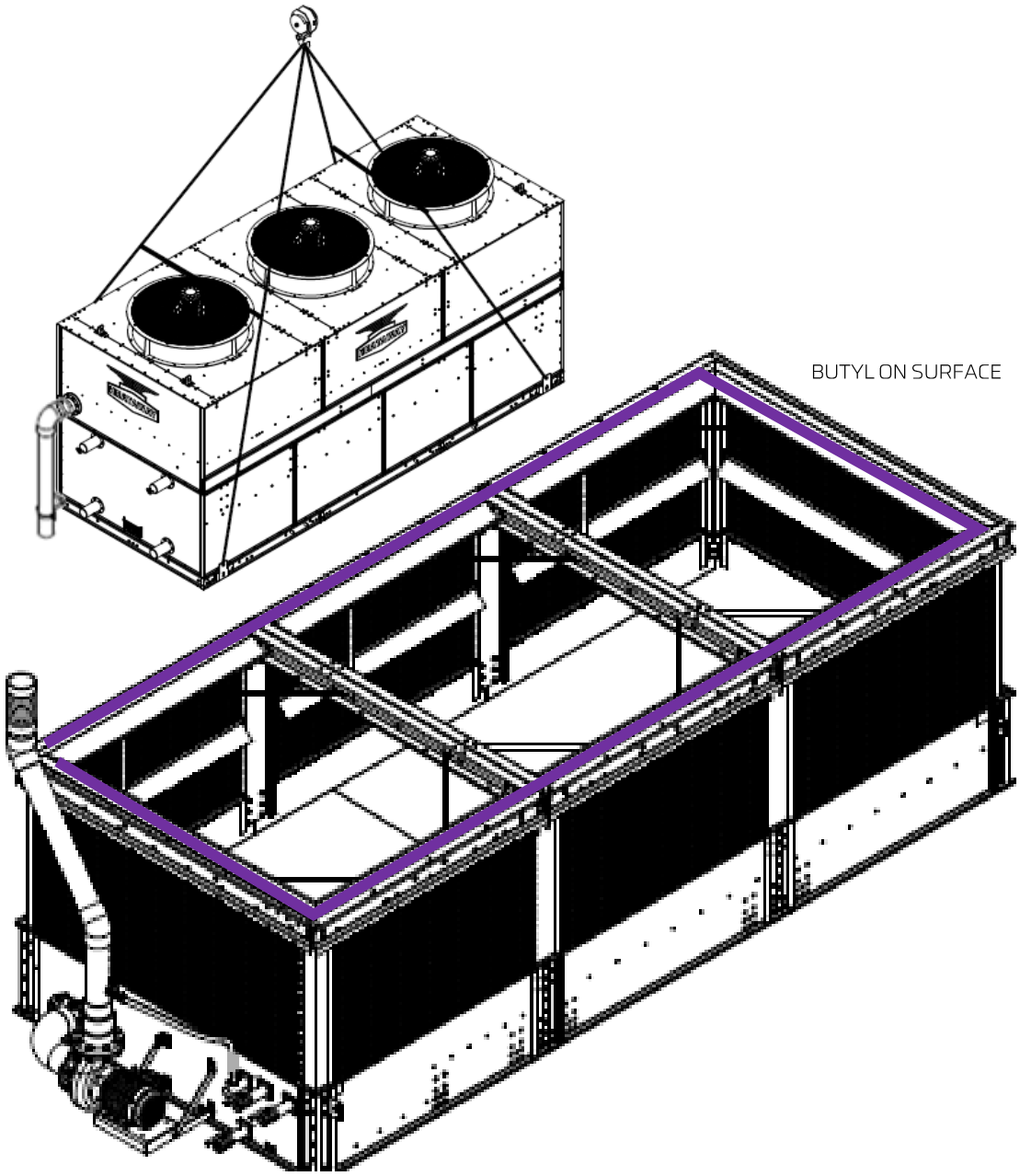


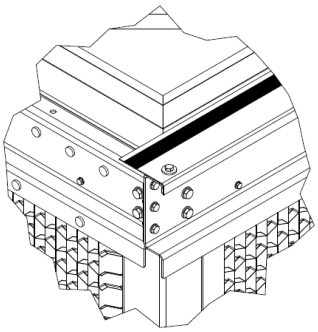
>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Assembly Fan Section to Basin Section

Step 3 : Upper Set assembly with Basin

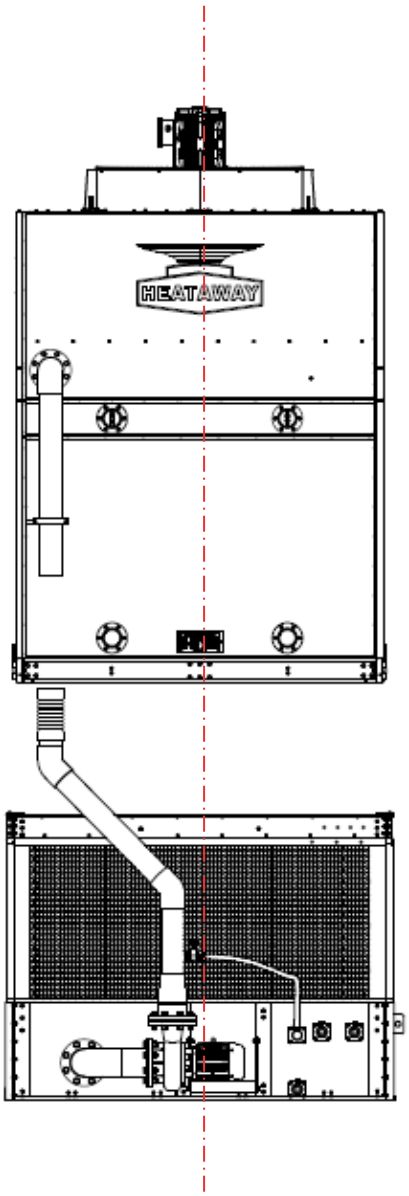




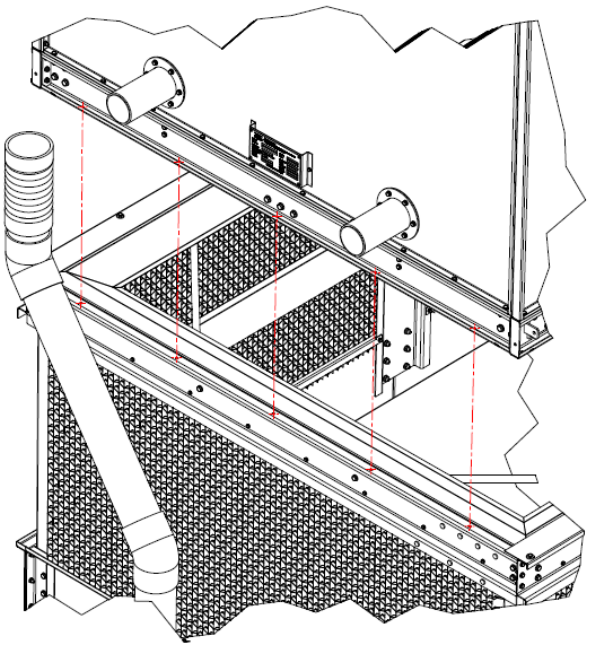
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Assembly Fan Section to Basin Section

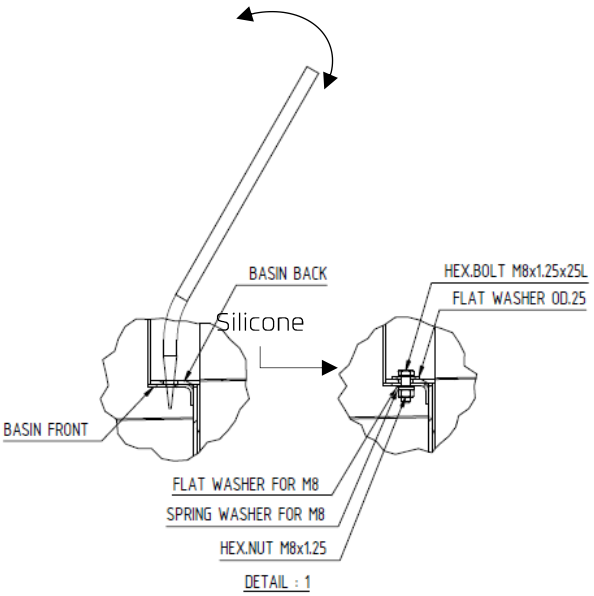
Step 3 : Upper Set assembly with Basin



Set Upper section on BASIN Section by setting in middle of BASIN Section



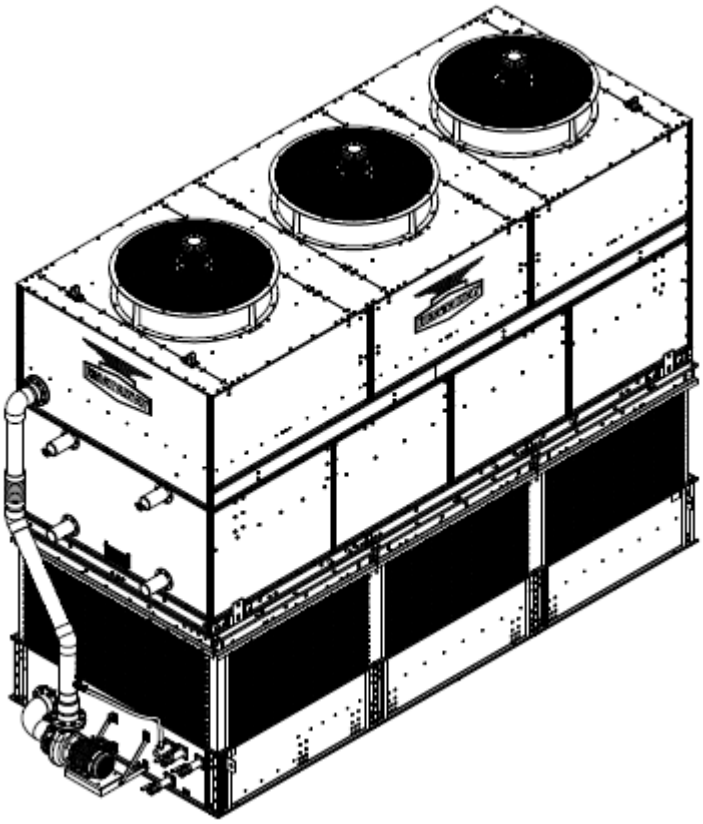
Use rod guide for guide upper section and BASIN Section and make sure front side and back side are in position before assembly

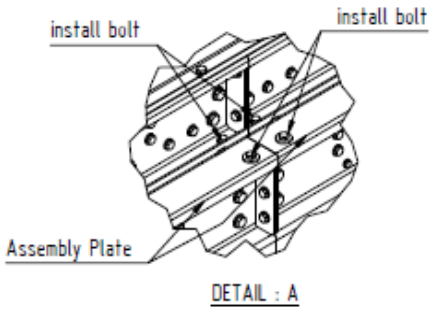


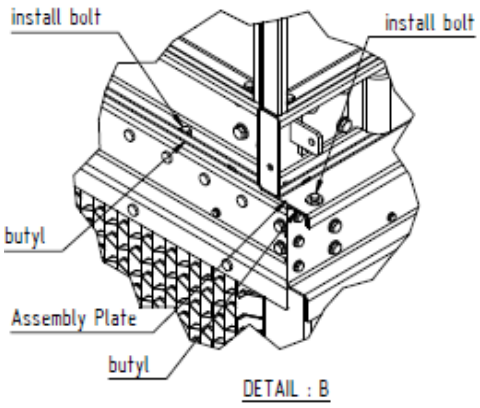
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

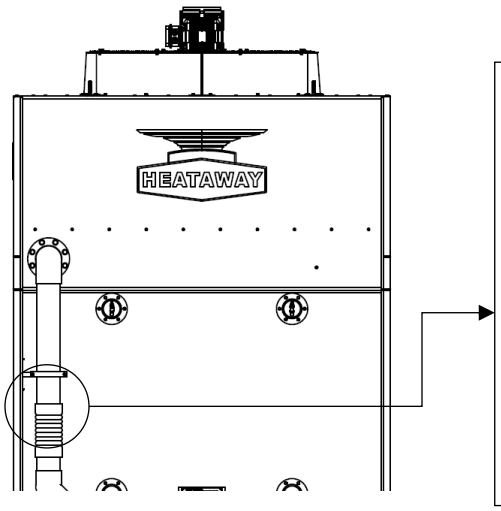
Final Assembly

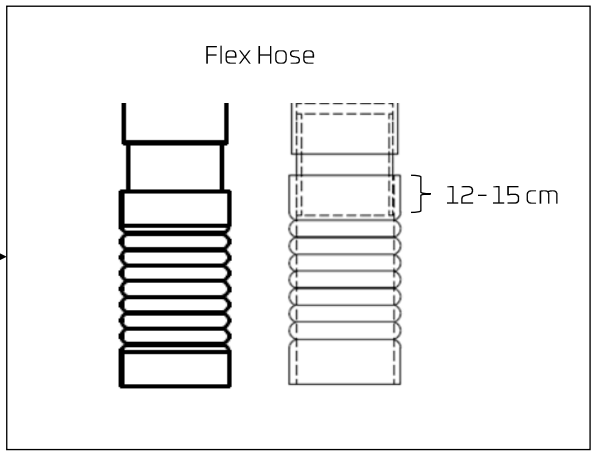
Step 4 : Upper Set assembly











TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Flex hose assembly: Insert the flex hose into the UPVC pipe with an inner depth of 12 - 15 cm to prevent leakage, then tighten securely with a hose clamp.

** Apply a lubricant such as soap to the UPVC surface to make inserting the flex hose easier.

HEATAWAY

9th GENERATION STAINLESS STEEL EVAPORATIVE CONDENSERS

RIGGING & ASSEMBLY INSTRUCTION

Footprint

10' X 12'

Model

EC9-1400-1012L-S

EC9-1600-1012L-M

EC9-1660-1012L-L

EC9-1840-1012L-M

EC9-1920-1012L-L

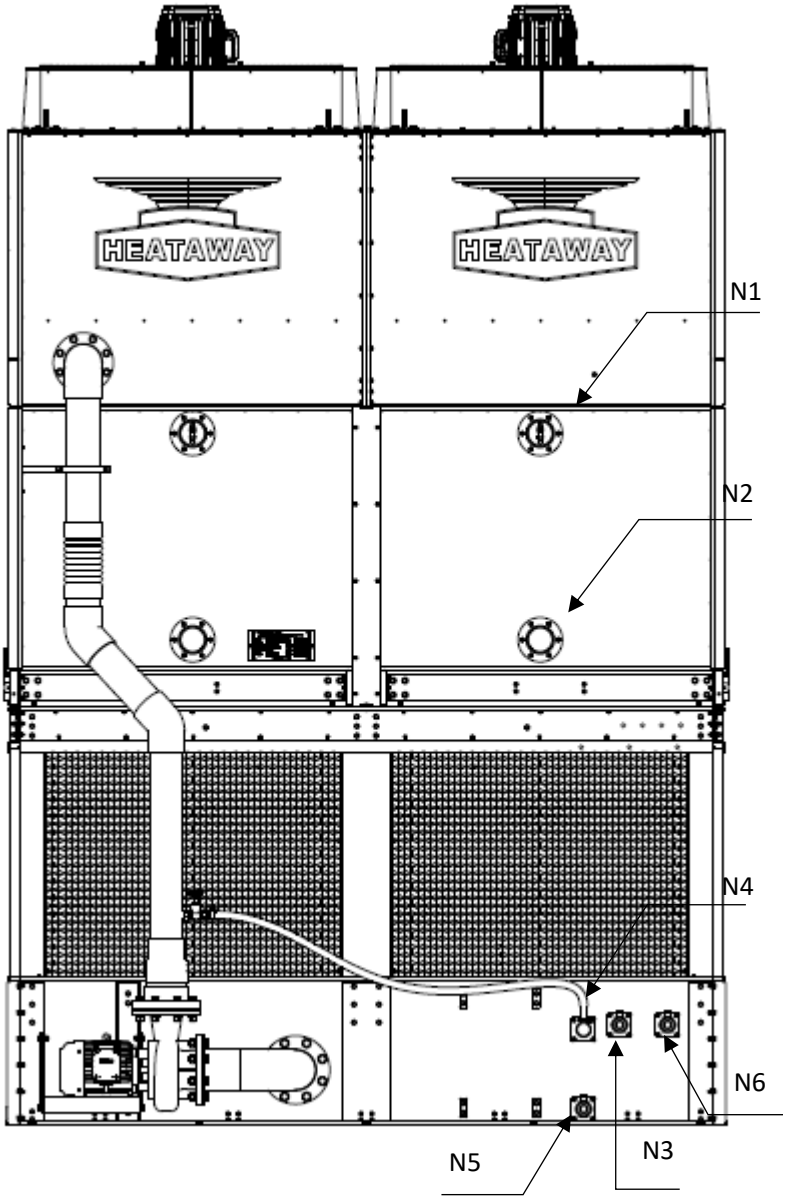
EC9-2000-1012L-M

EC9-2080-1012L-L



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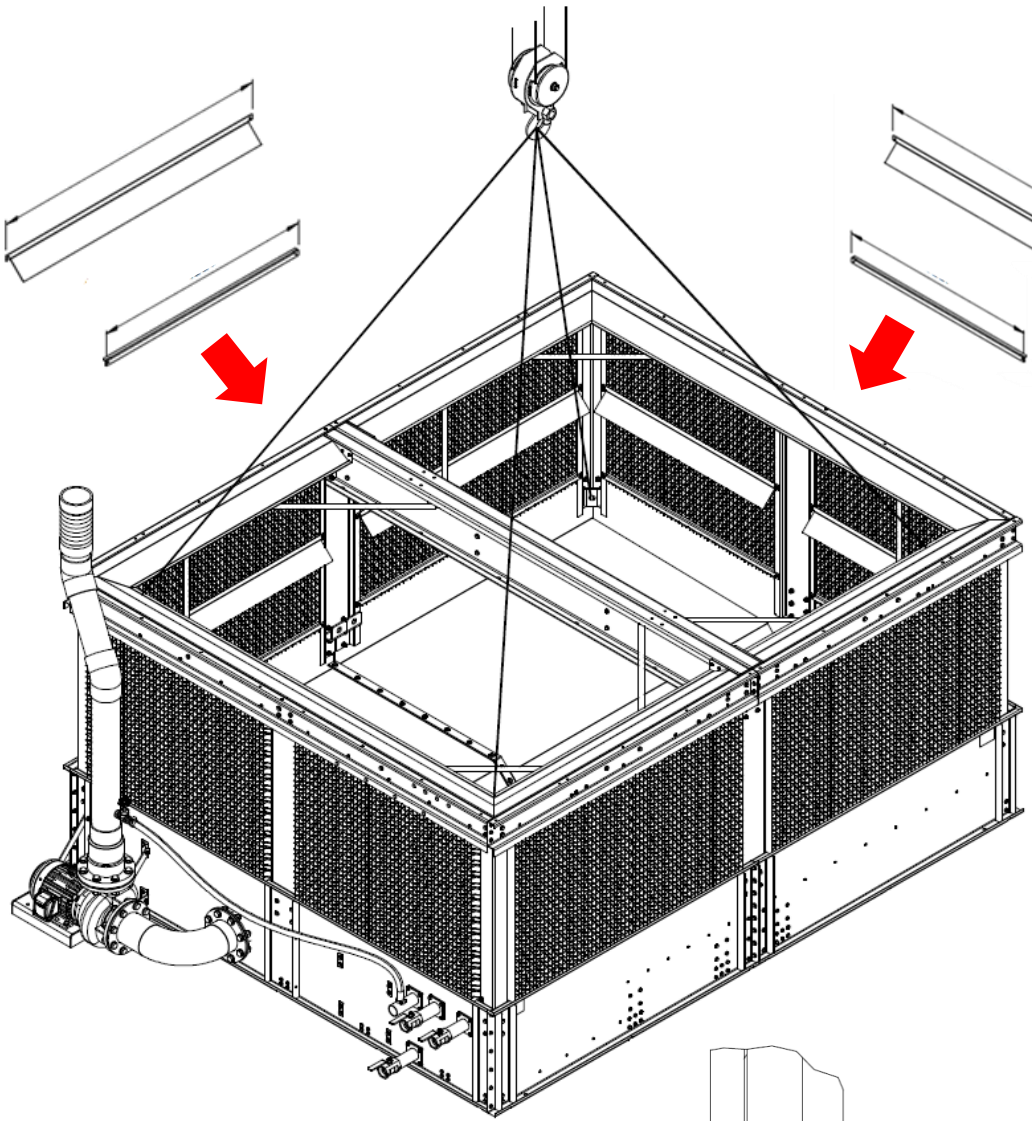
Piping Connection



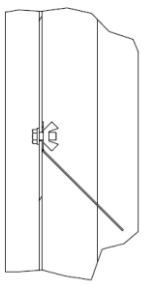
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Basin Section Assembly

Step 1 : Move Assembled Basin to Position And Water Deflect Assembly

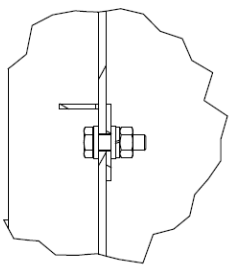


LOUVER



HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

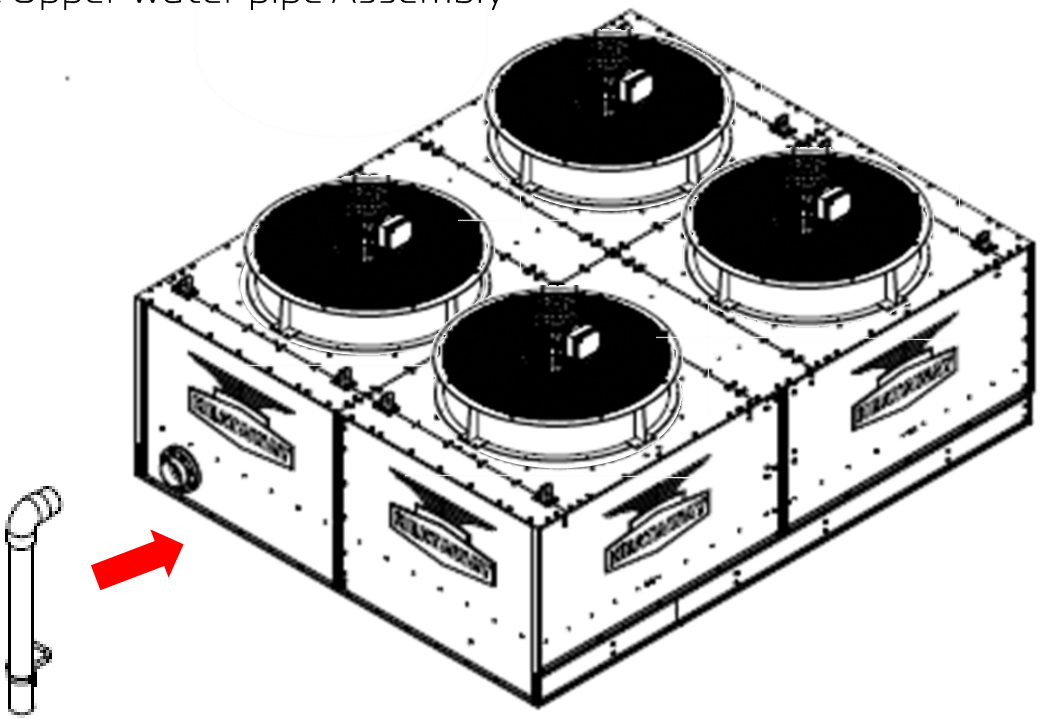
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

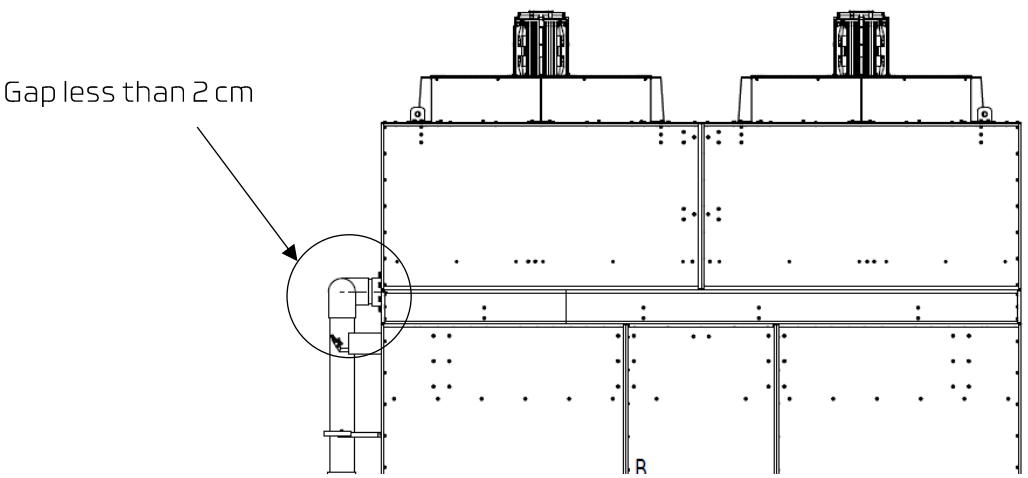


HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

Assembly Upper water pipe

Step 2 : Upper water pipe Assembly



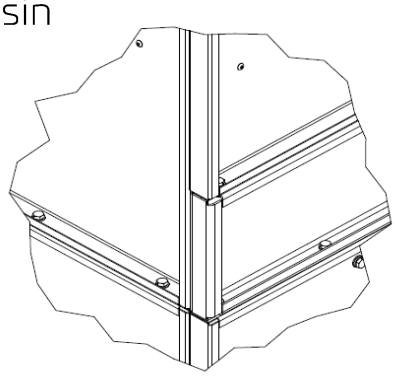


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

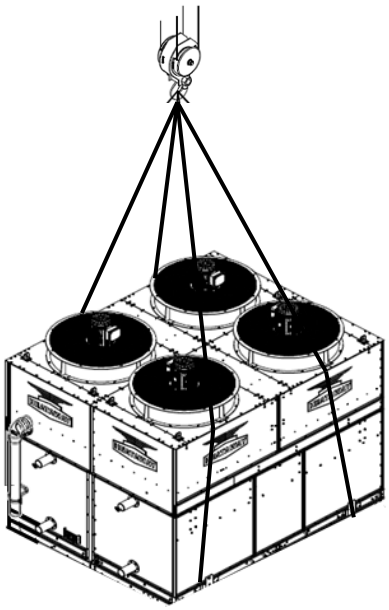
>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

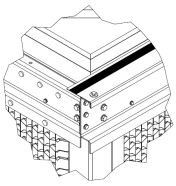
Final Assembly

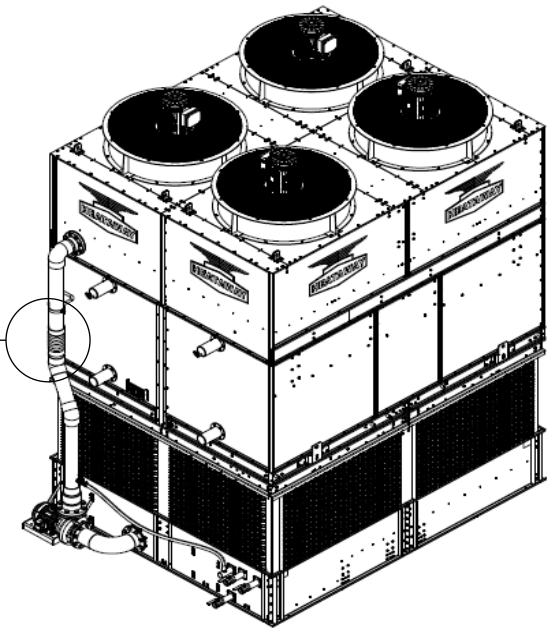
Step 3 : Upper Set assembly with Basin

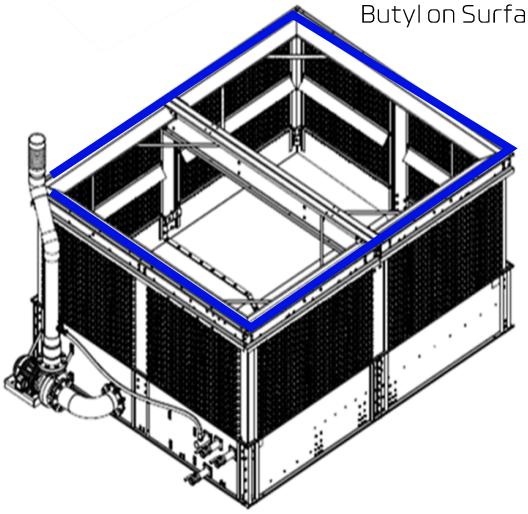


HEX BOLT
M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25

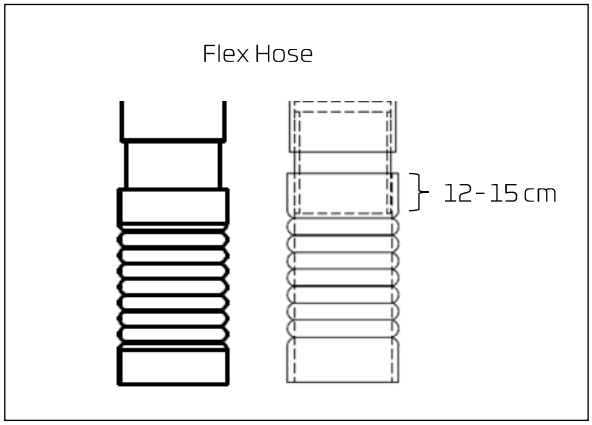








Butyl on Surface



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Flex hose assembly: Insert the flex hose into the UPVC pipe with an inner depth of 12 - 15 cm to prevent leakage, then tighten securely with a hose clamp.

** Apply a lubricant such as soap to the UPVC surface to make inserting the flex hose easier.

HEATAWAY

9th GENERATION STAINLESS STEEL EVAPORATIVE CONDENSERS

RIGGING & ASSEMBLY INSTRUCTION

Footprint

10' X 18'

Model

EC9-2250-1018L-S

EC9-2520-1018L-M

EC9-2550-1018L-S

EC9-2860-1018L-M

EC9-2990-1018L-L

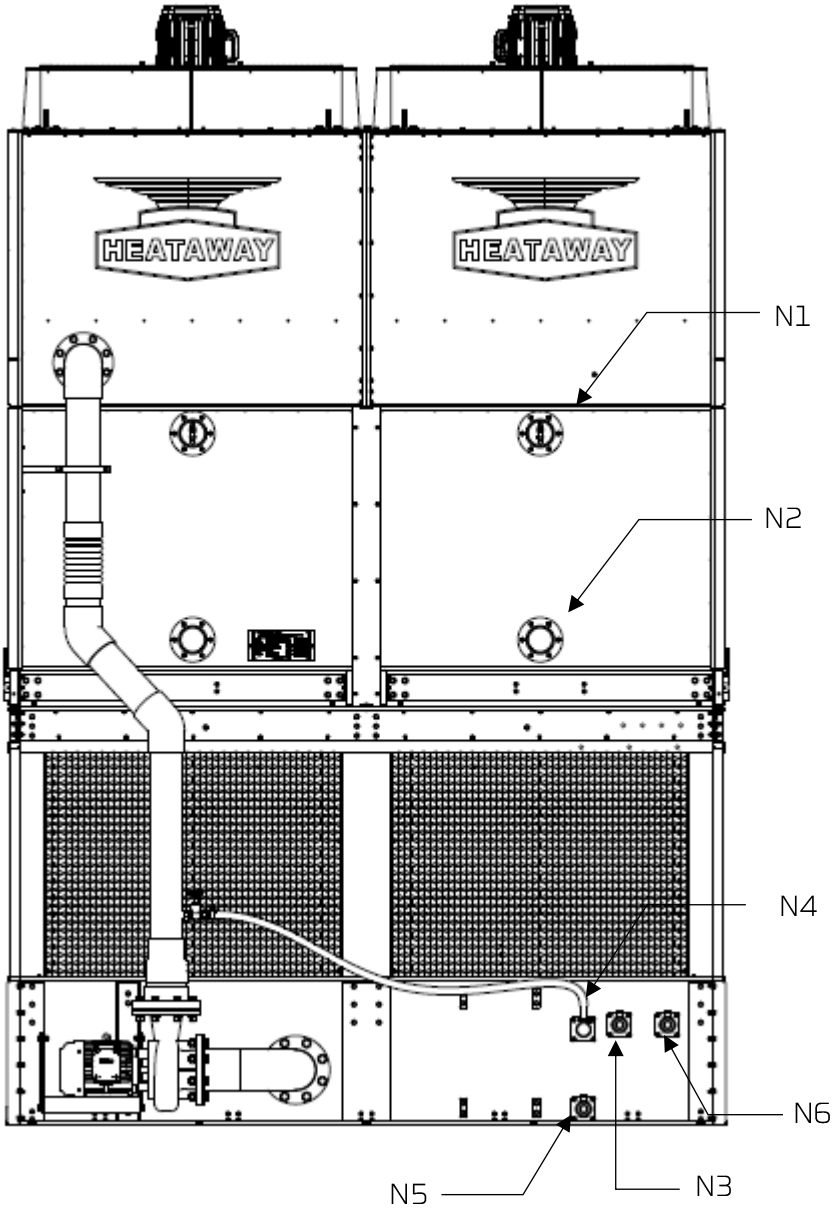
EC9-3120-1018L-M

EC9-3250-1018L-L



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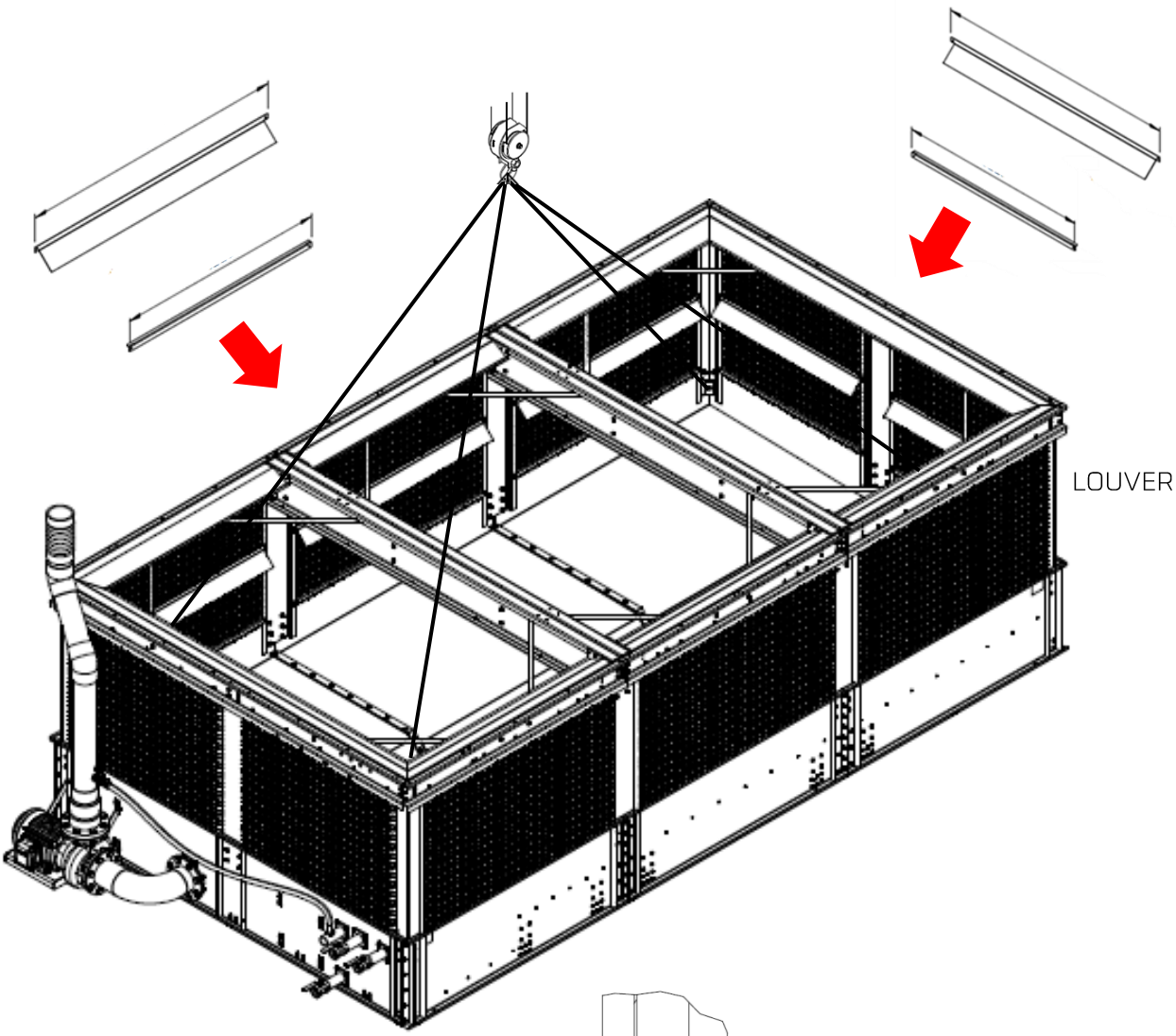
Piping Connection

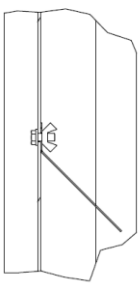


PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

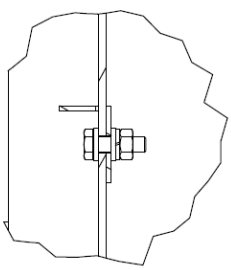
Basin Section Assembly

Step 1 : Move Assembled Basin to Position And Water Deflect Assembly





HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

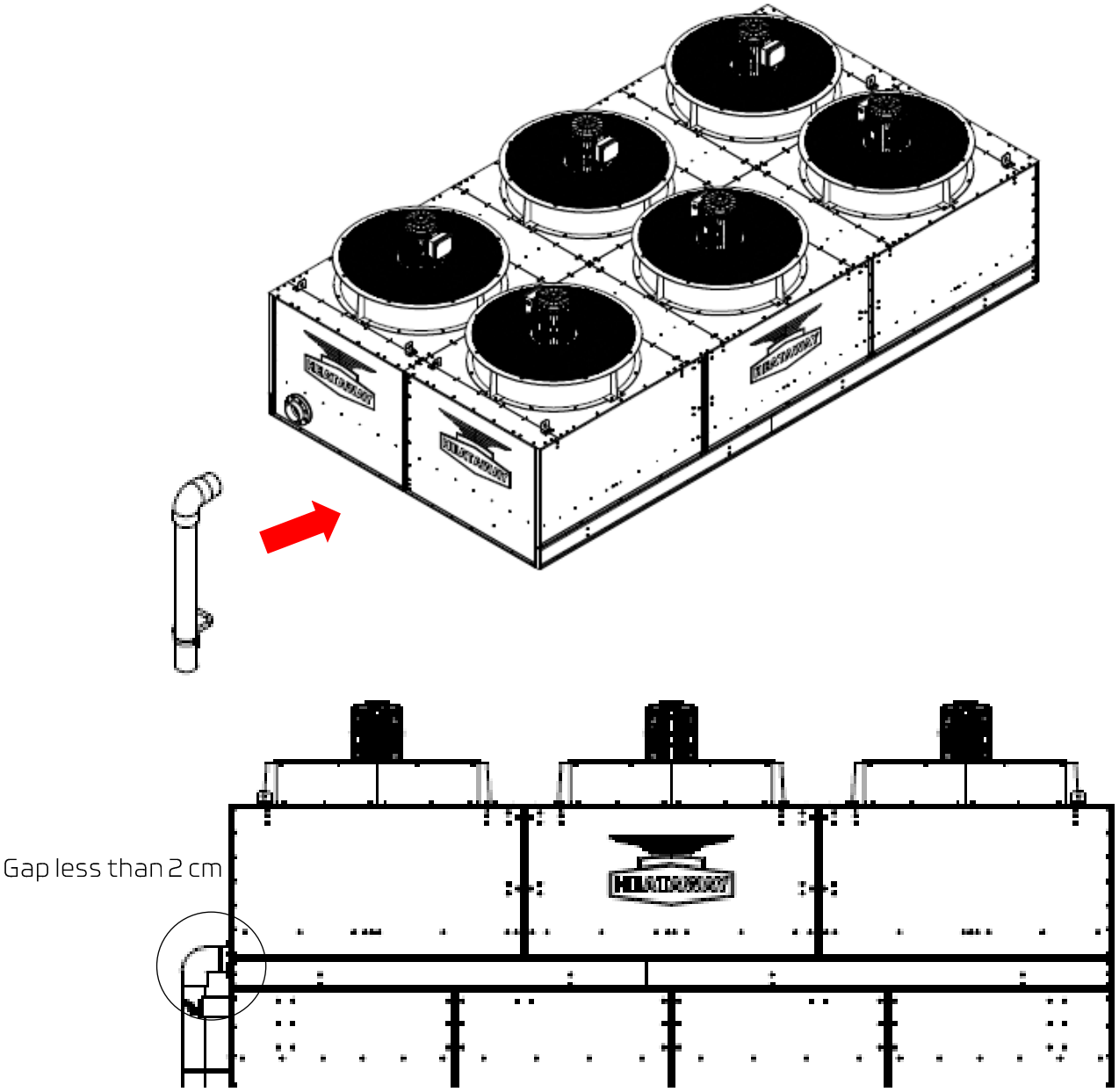


HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Upper pipe Assembly

Step 2 : Upper water pipe Assembly

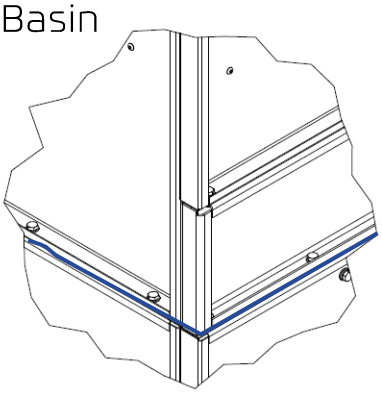


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

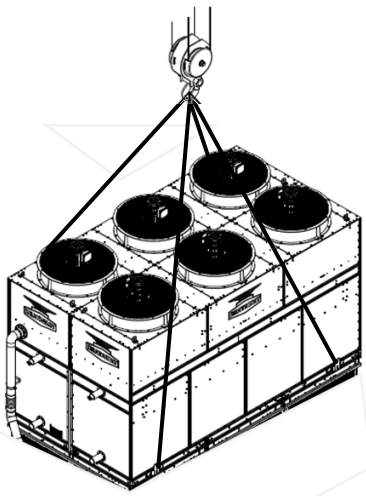
>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

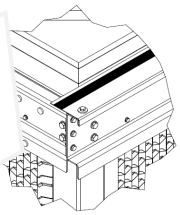
Fan Section Install

Step 3 : Upper Set assembly with Basin

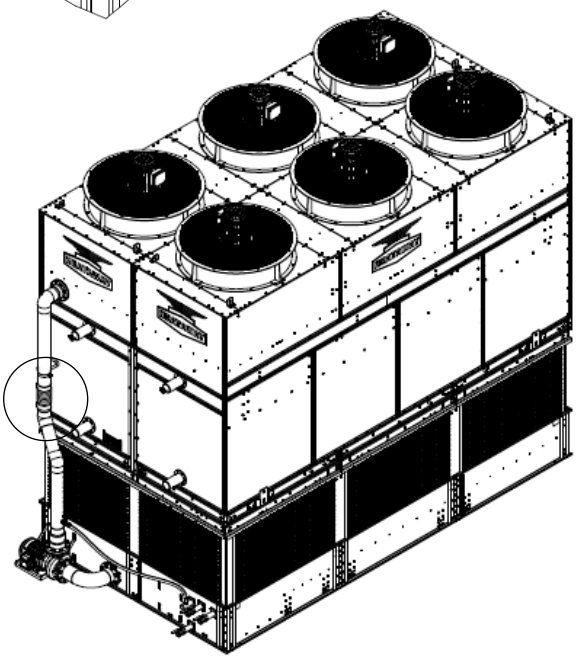


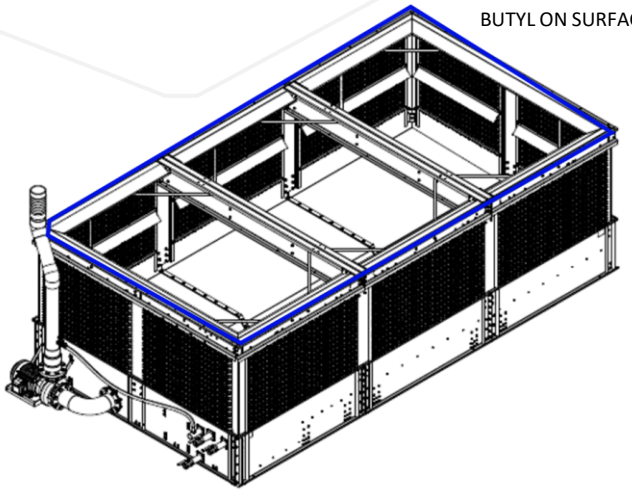
HEX BOLT M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25

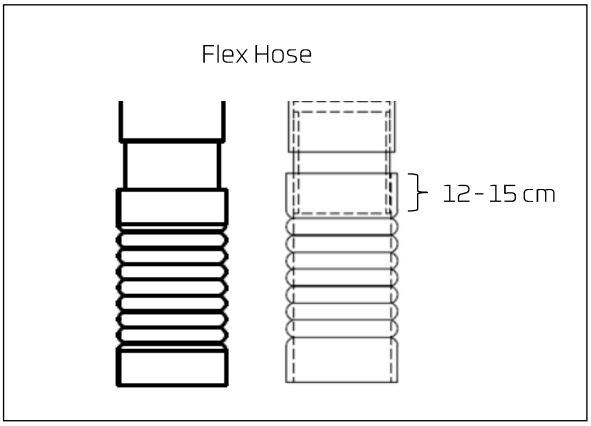




BUTYL ON SURFACE







TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Flex hose assembly: Insert the flex hose into the UPVC pipe with an inner depth of 12 - 15 cm to prevent leakage, then tighten securely with a hose clamp.

** Apply a lubricant such as soap to the UPVC surface to make inserting the flex hose easier.

HEATAWAY

9th GENERATION STAINLESS STEEL EVAPORATIVE CONDENSERS

RIGGING & ASSEMBLY INSTRUCTION

Footprint

12' X 12'

Model

EC9-1650-1212L-S

EC9-1890-1212L-M

EC9-1980-1212L-L

EC9-2150-1212L-M

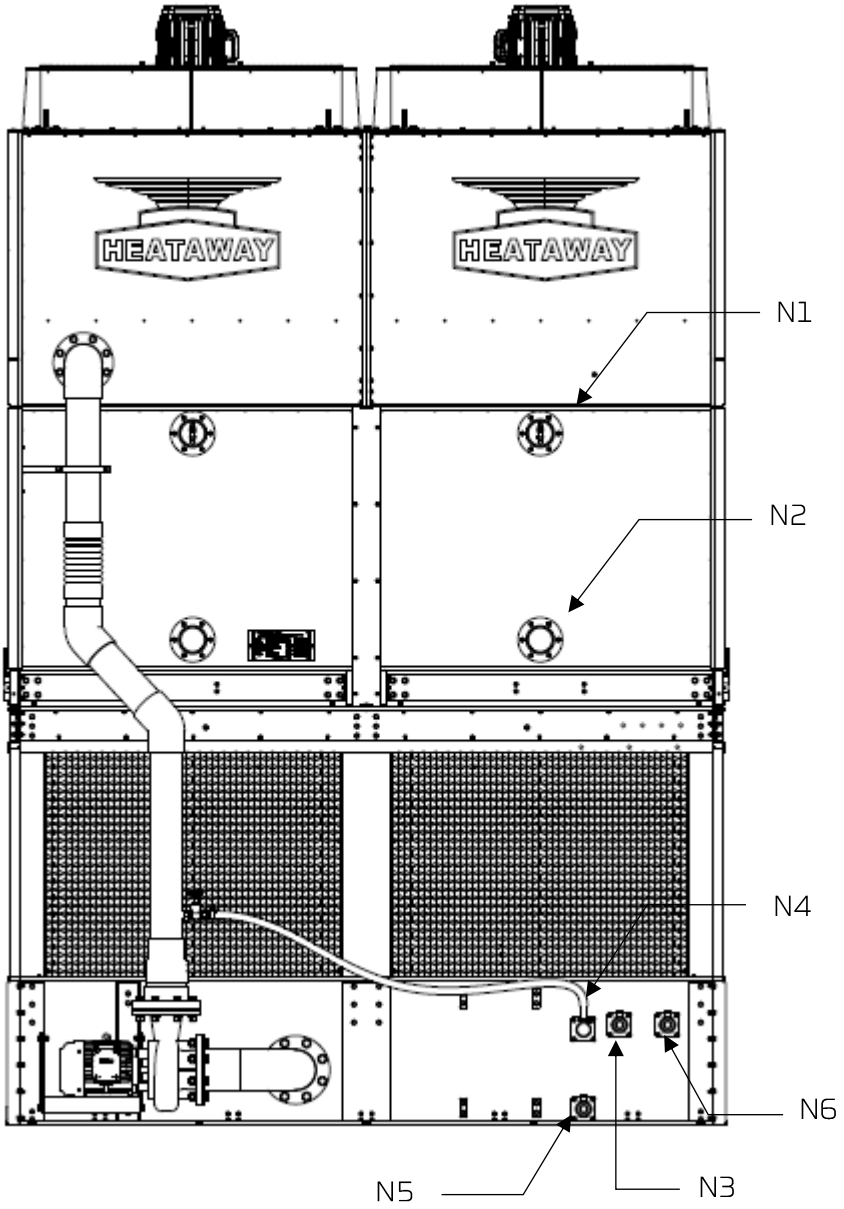
EC9-2350-1212L-M

EC9-2460-1212L-L



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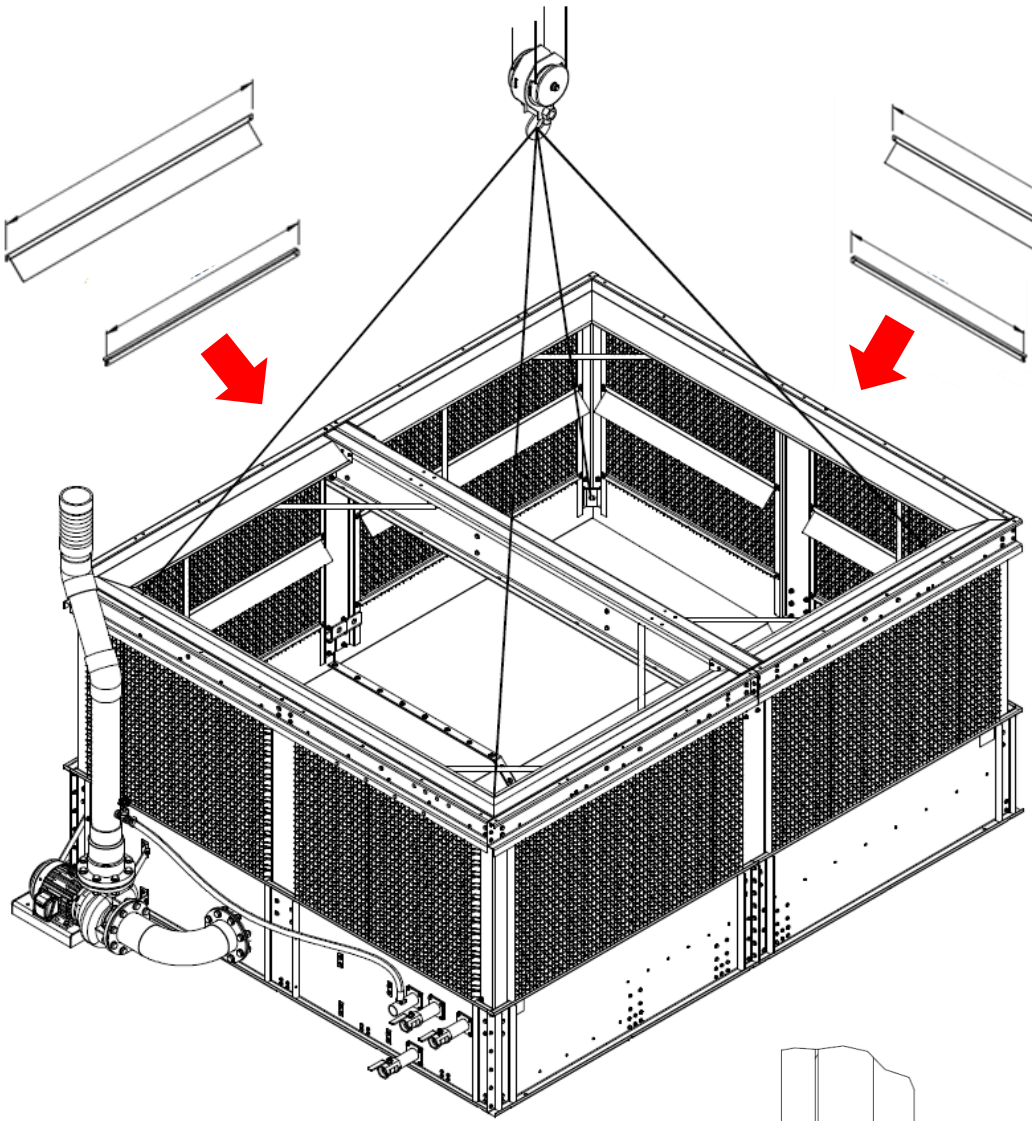
Piping Connection



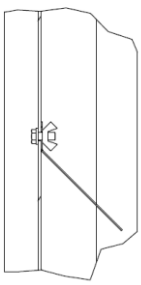
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Basin Section Assembly

Step 1 : Move Assembled Basin to Position And Water Deflect Assembly

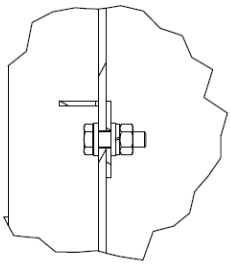


LOUVER



HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

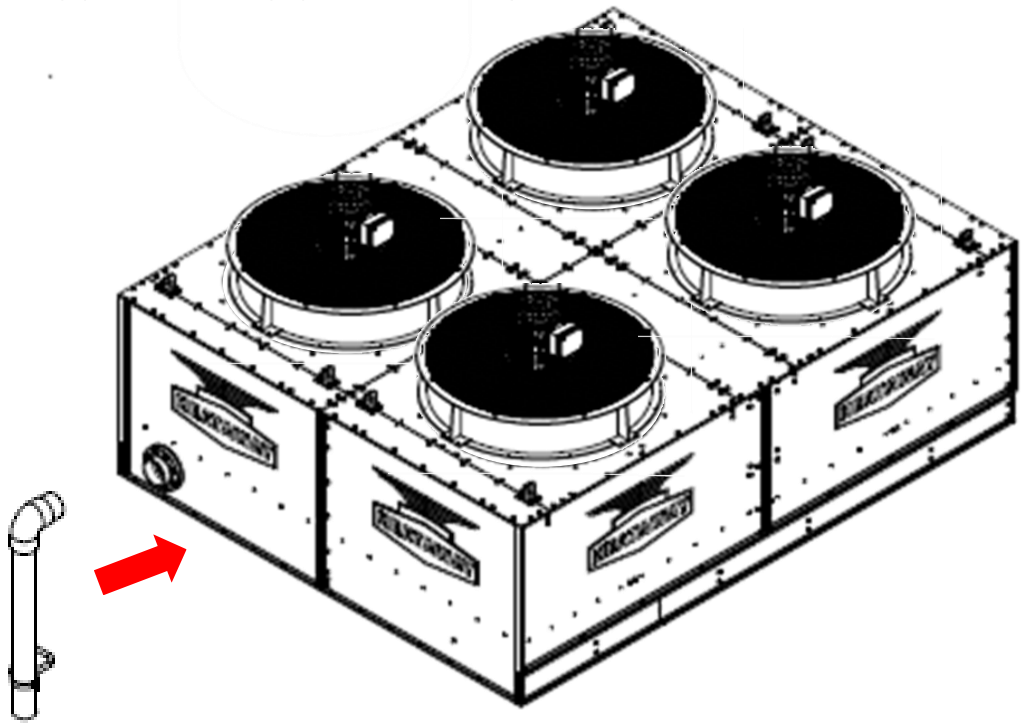
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

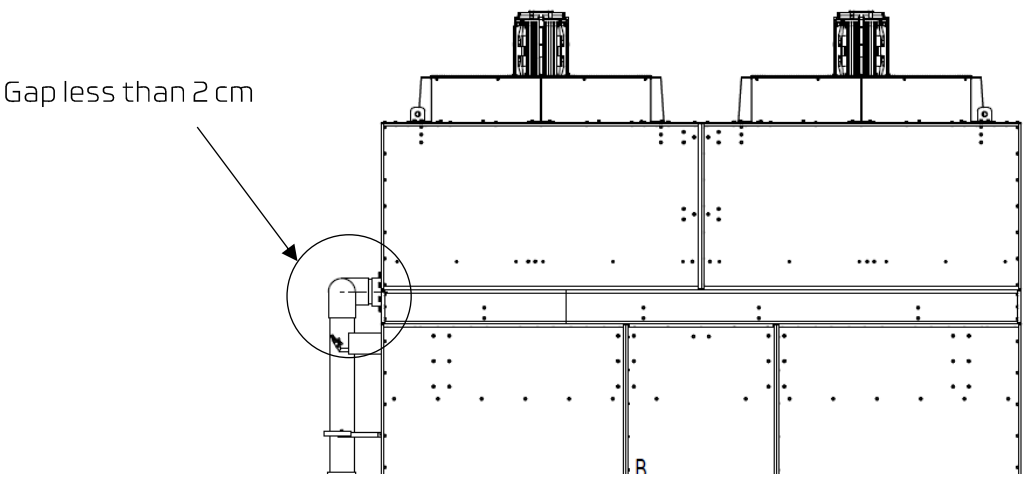


HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

Assembly Upper water pipe

Step 2 : Upper water pipe Assembly



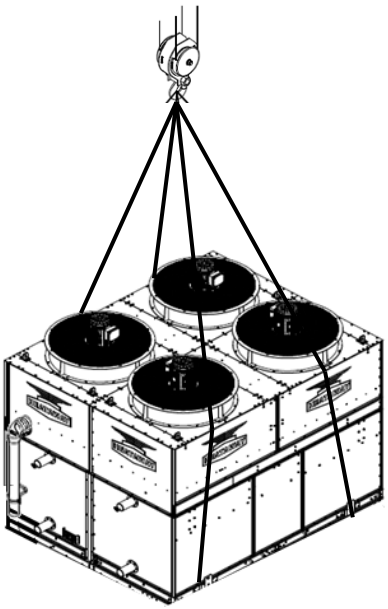


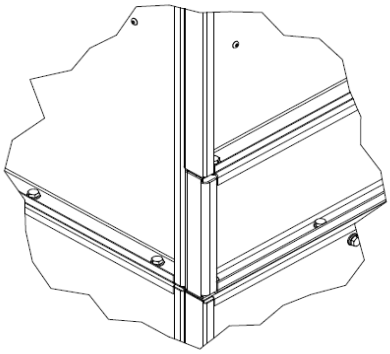
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

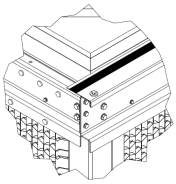
Final Assembly

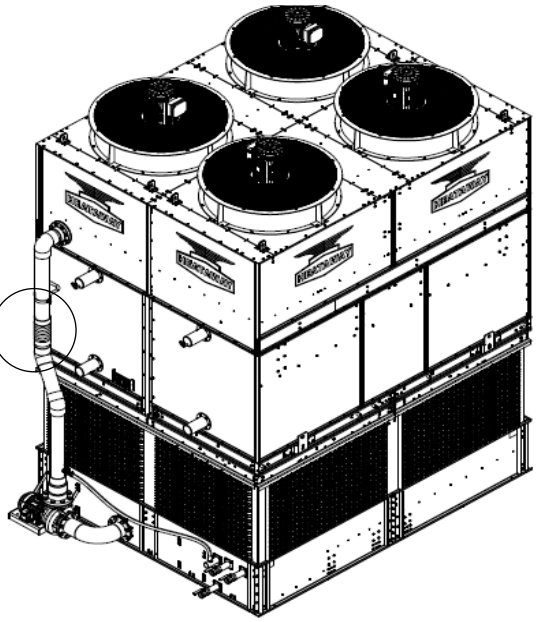
Step 3 : Upper Set assembly with Basin



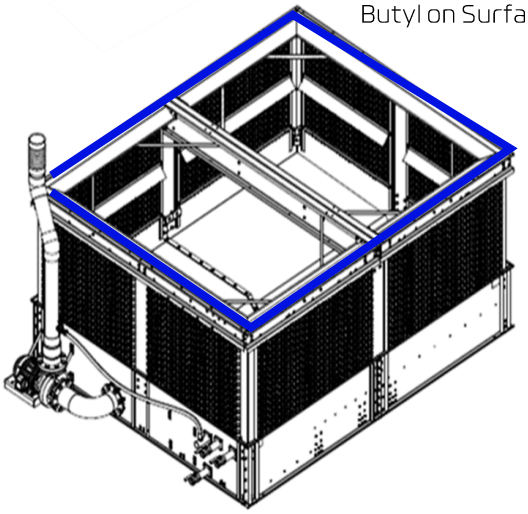


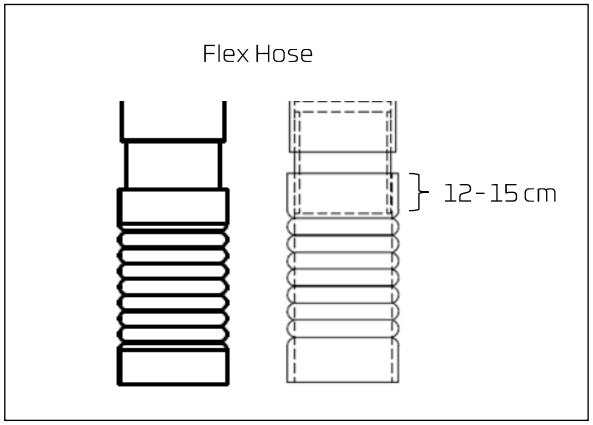
HEX BOLT
M8x1.25x20L
WASHER SPRING
M8
WASHER M8
HEX NUT M8 1.25





Butyl on Surface





TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Flex hose assembly: Insert the flex hose into the UPVC pipe with an inner depth of 12 - 15 cm to prevent leakage, then tighten securely with a hose clamp.

** Apply a lubricant such as soap to the UPVC surface to make inserting the flex hose easier.

HEATAWAY

9th GENERATION STAINLESS STEEL EVAPORATIVE CONDENSERS

RIGGING & ASSEMBLY INSTRUCTION

Footprint

12' X 18'

Model

EC9-2600-1218L-S

EC9-2950-1218L-S

EC9-3010-1218L-M

EC9-3400-1218L-M

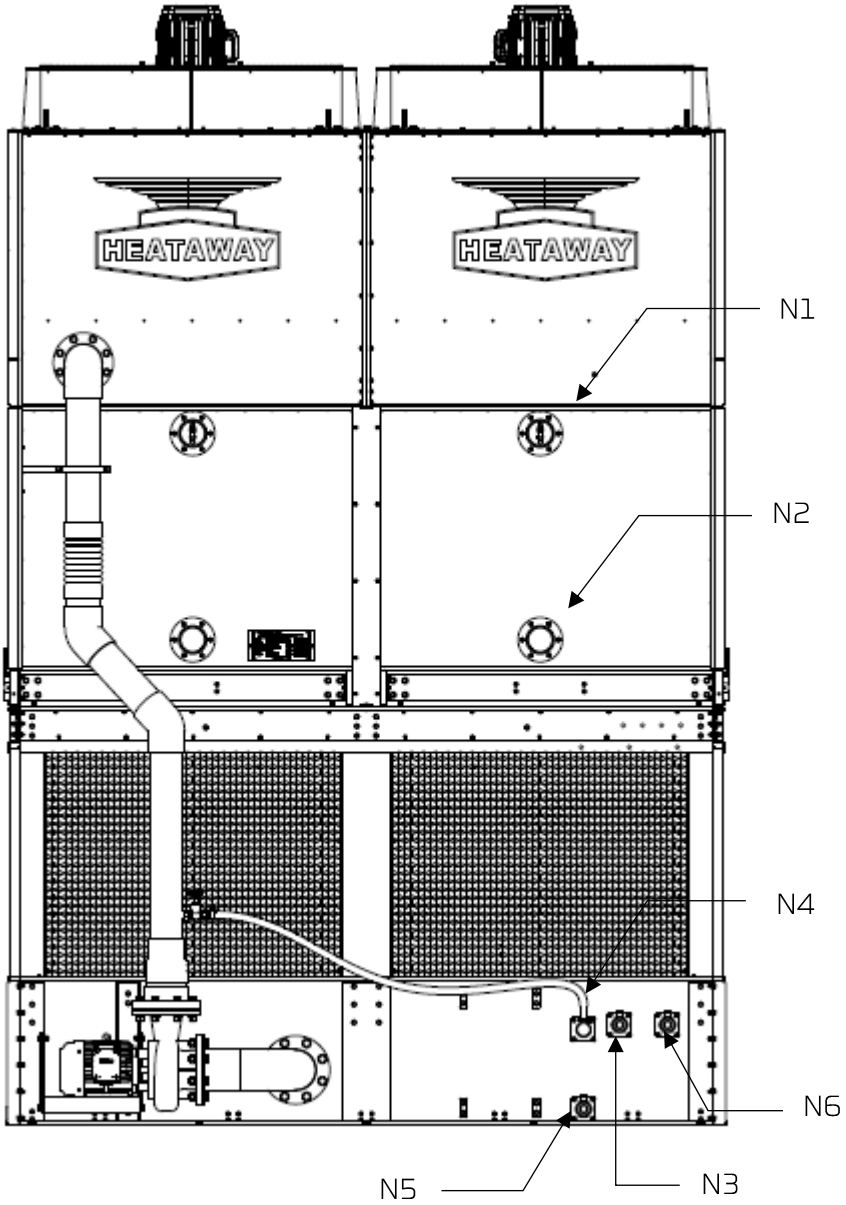
EC9-3730-1218L-M

EC9-3900-1218L-L



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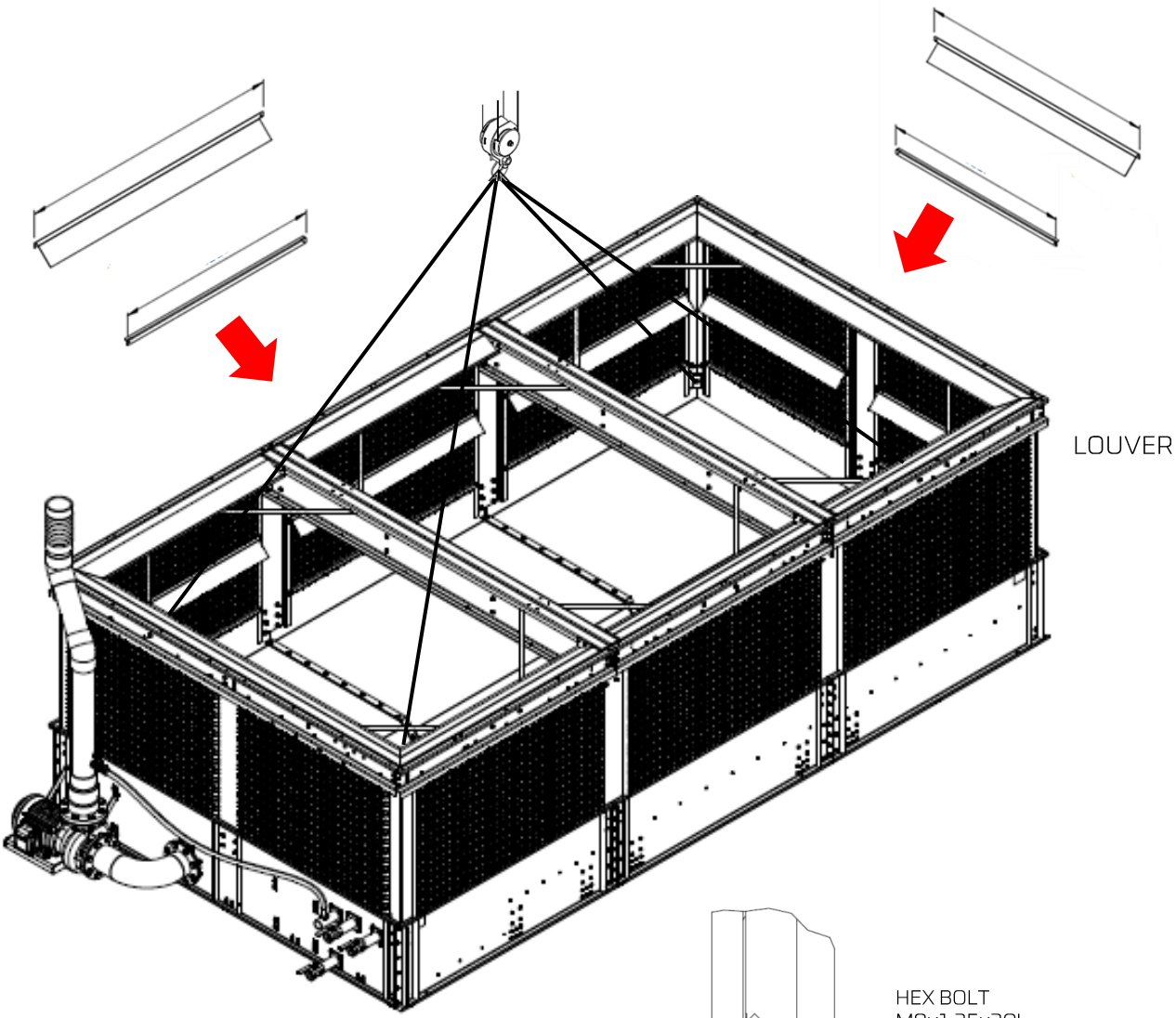
Piping Connection



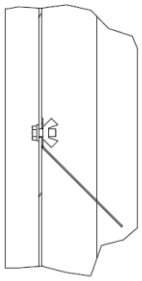
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Basin Section Assembly

Step 1 : Move Assembled Basin to Position And Water Deflect Assembly

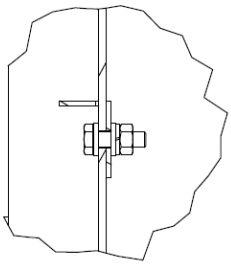


LOUVER



HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

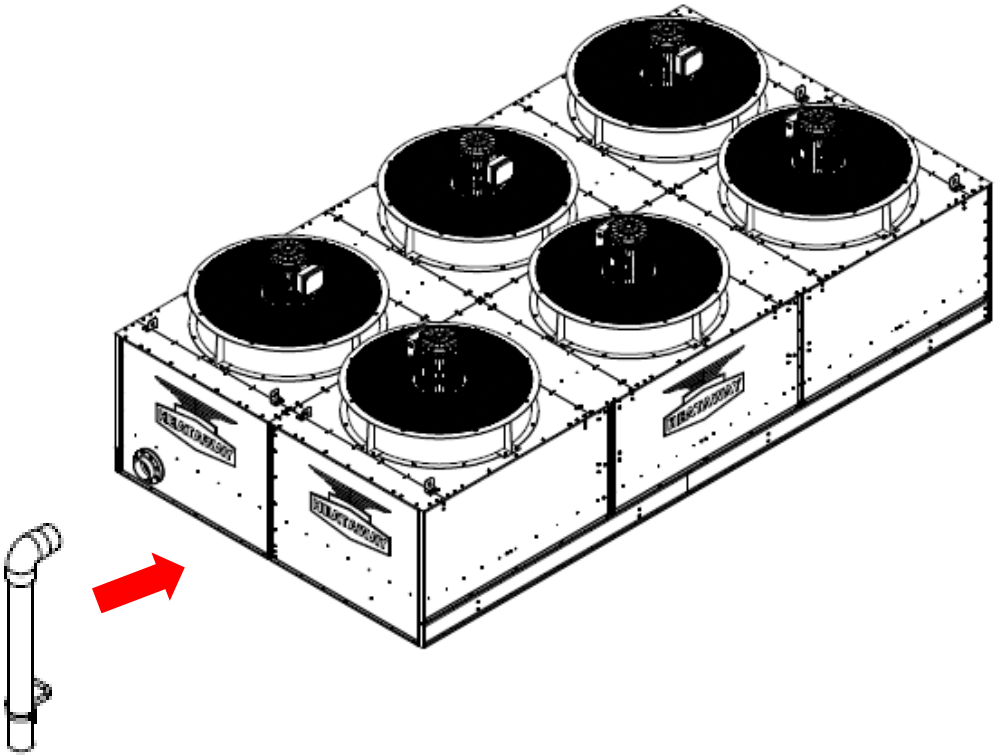
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

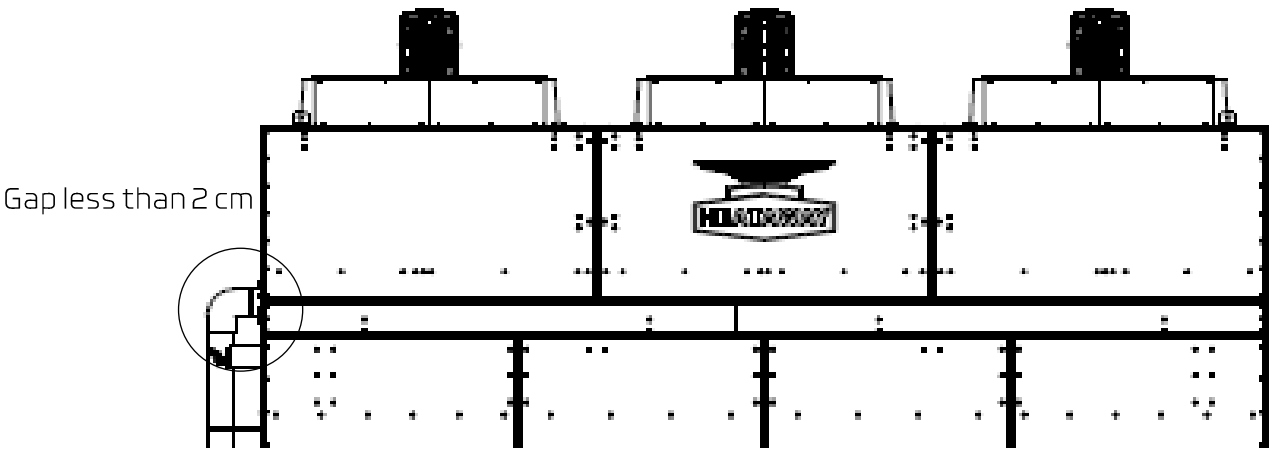


HEX BOLT
M6x1.25x20L
HEX.LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

Fan Section Assembly

Step 2 : Upper water pipe Assembly



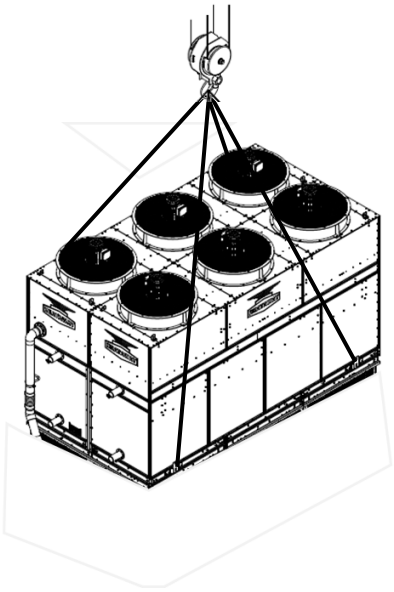


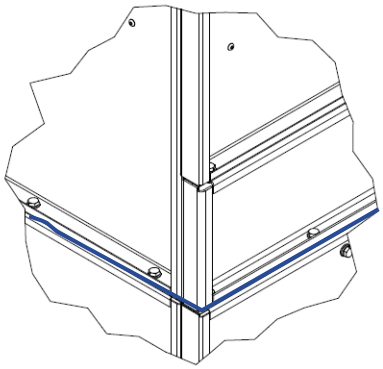
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Upper pipe assembly process: Insert the upper pipe into the flange, ensuring proper fit and that the pipe gap less than 2 cm, and markings. Then attach by using PVC glue and use a rubber hammer to tighten and ensure a leak connection.

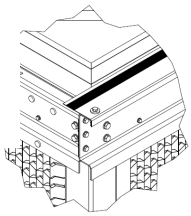
Fan Section Install

Step 3 : Upper Set assembly with Basin

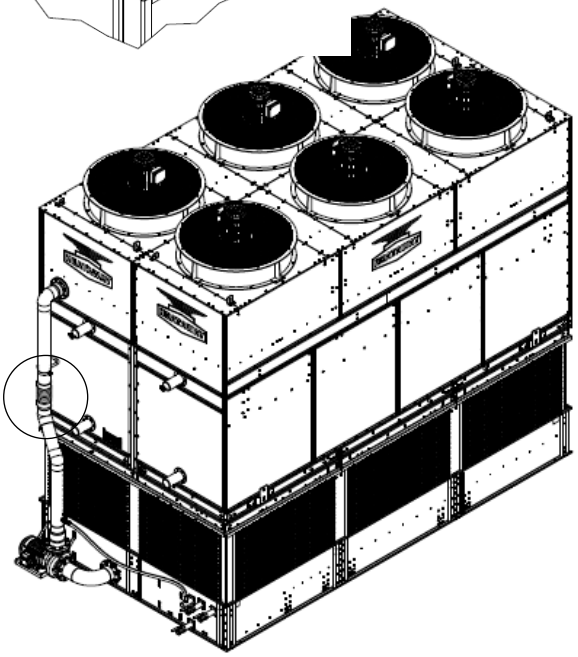


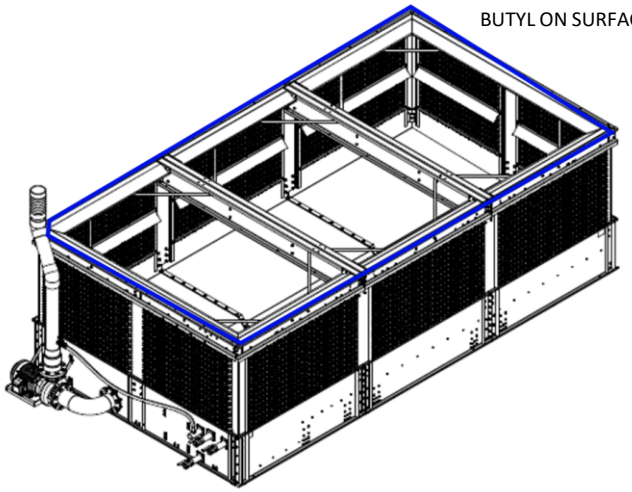


HEX BOLT
M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25

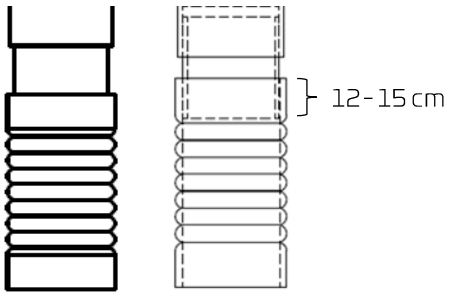


BUTYL ON SURFACE





Flex Hose



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Flex hose assembly: Insert the flex hose into the UPVC pipe with an inner depth of 12 - 15 cm to prevent leakage, then tighten securely with a hose clamp.

** Apply a lubricant such as soap to the UPVC surface to make inserting the flex hose easier.

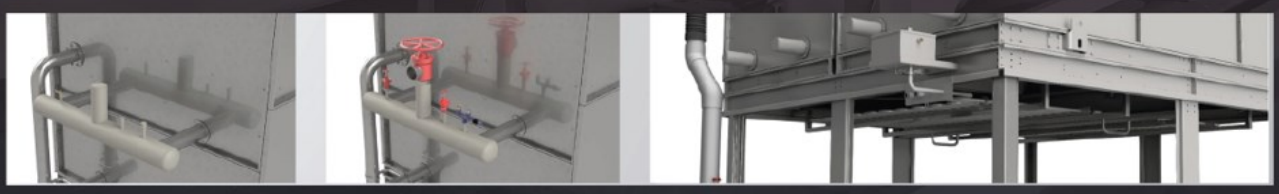
HEATAWAY

BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

ADDITIONAL EQUIPMENT

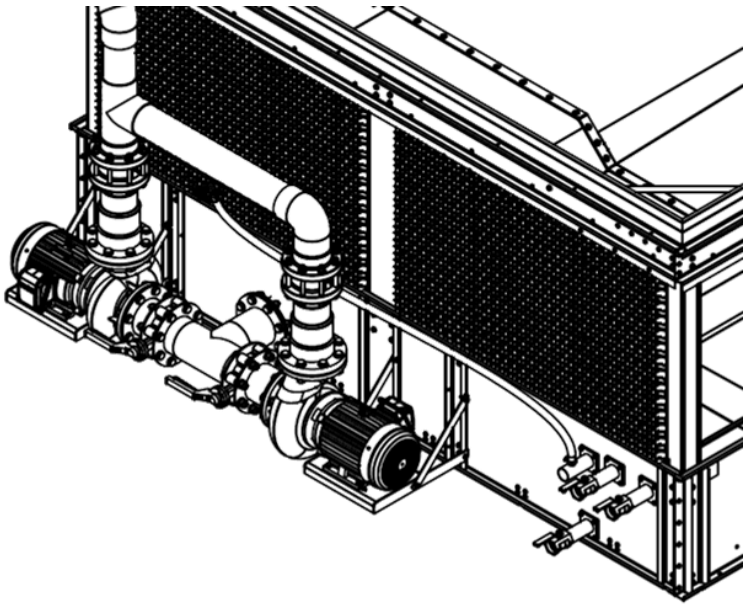


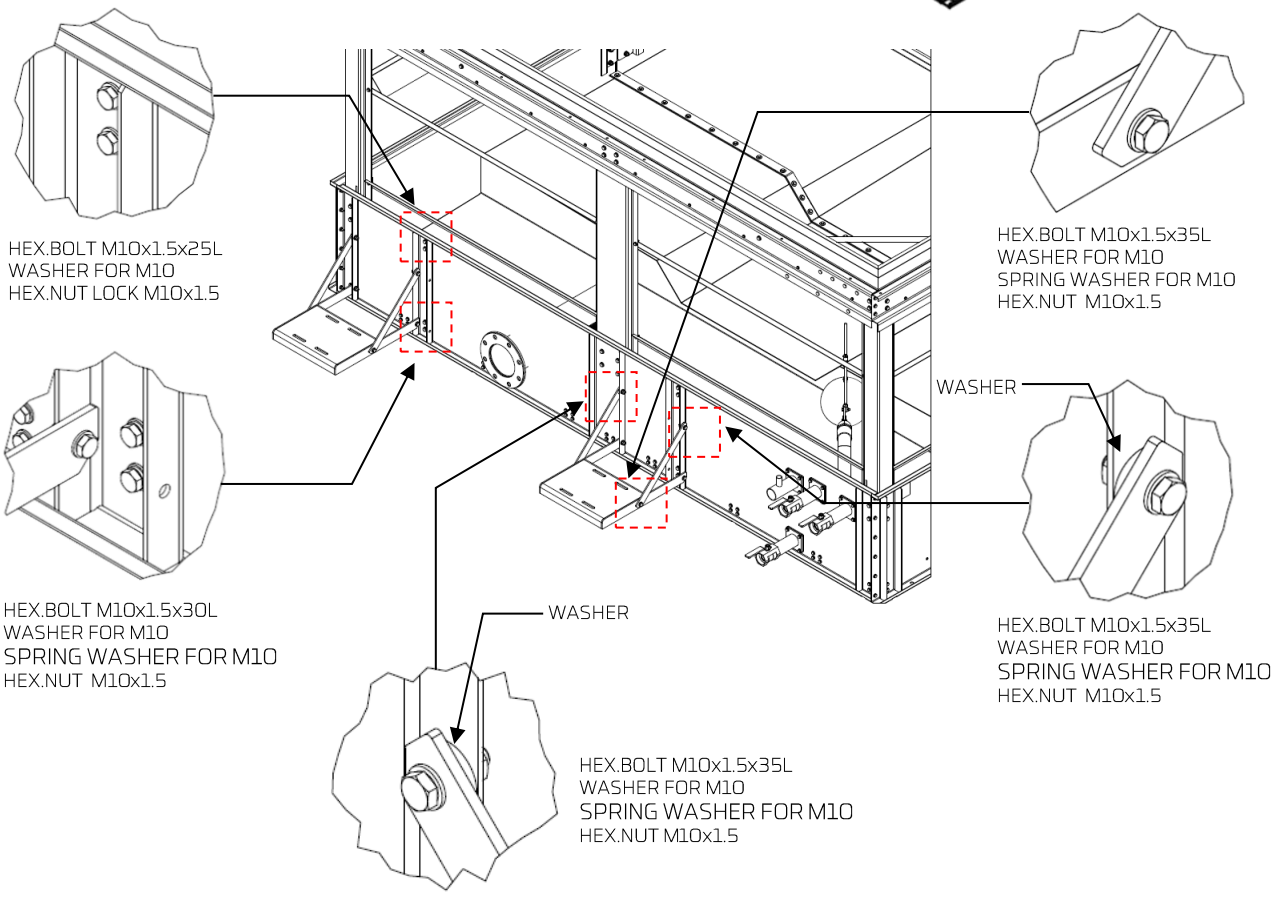


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Standby water pump assembly

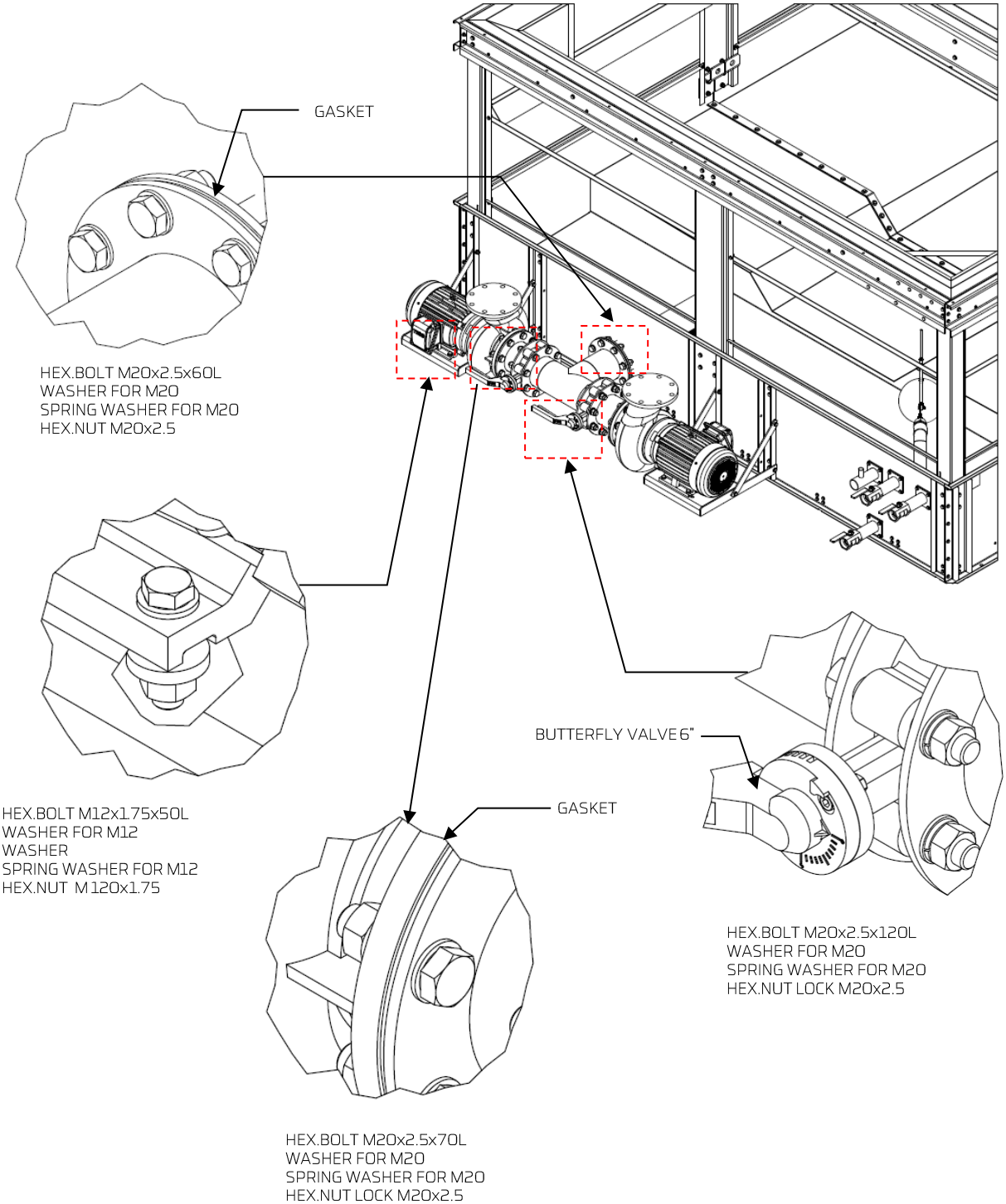
➤ Step 1 : Start Assembly water pump base





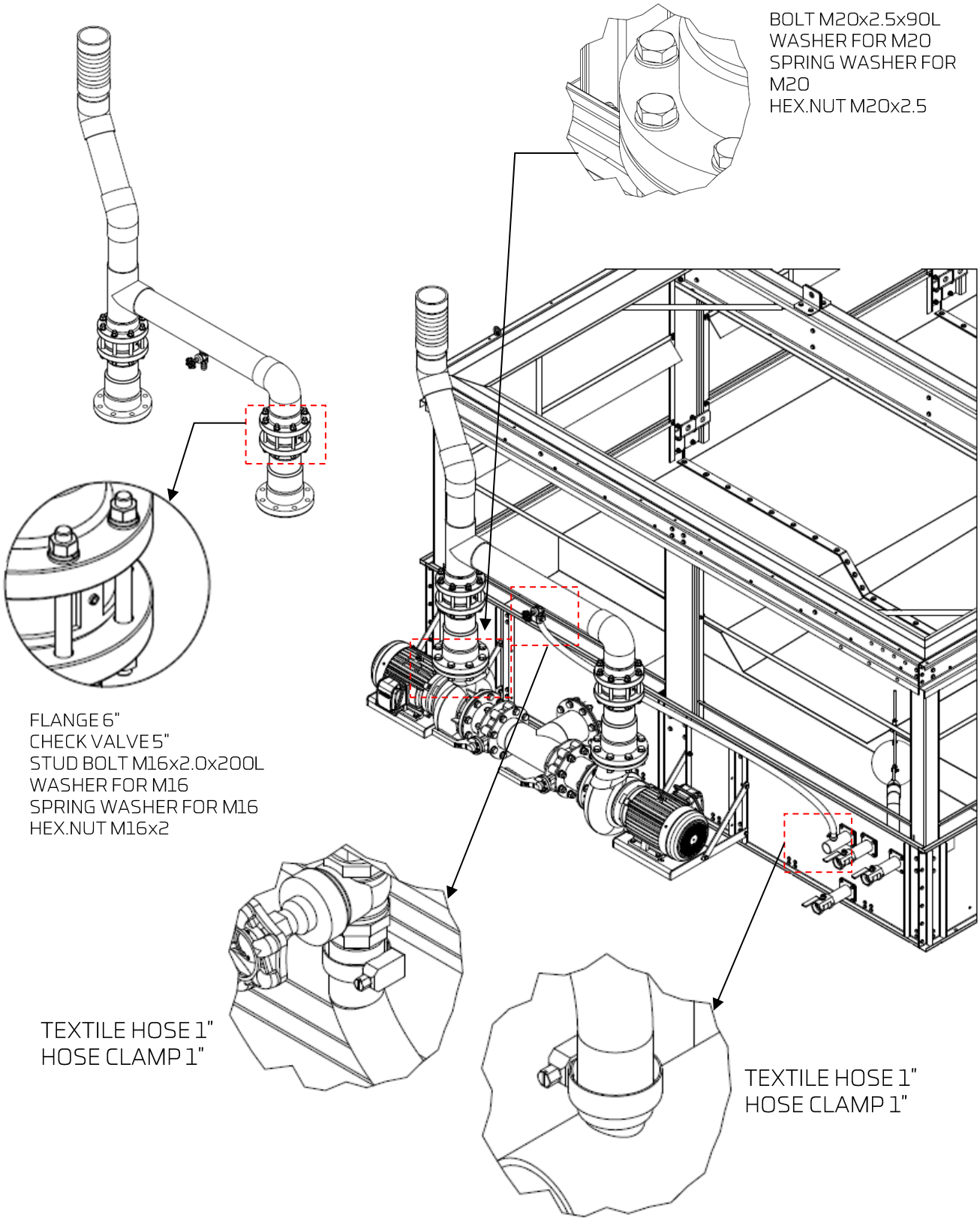
Standby water pump assembly

➤ Step 2 : Assembly water pump and Suction Pump pipe

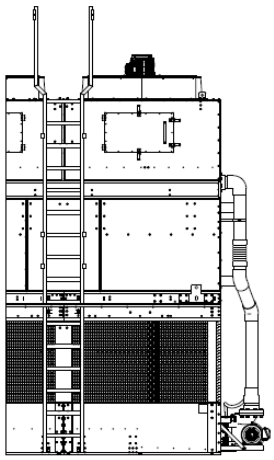


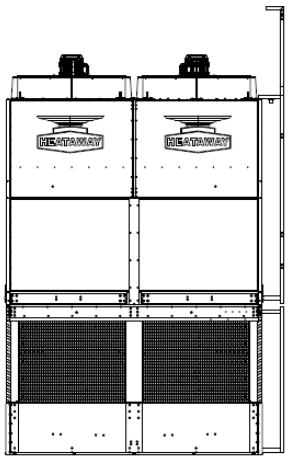
Standby water pump assembly

➤ Step 3 : Assembly Lower pump pipe

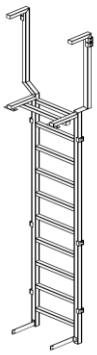


Ladder assembly

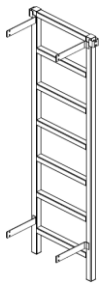




1. Lower Ladder 1 Unit
2. Upper Ladder 1 Unit

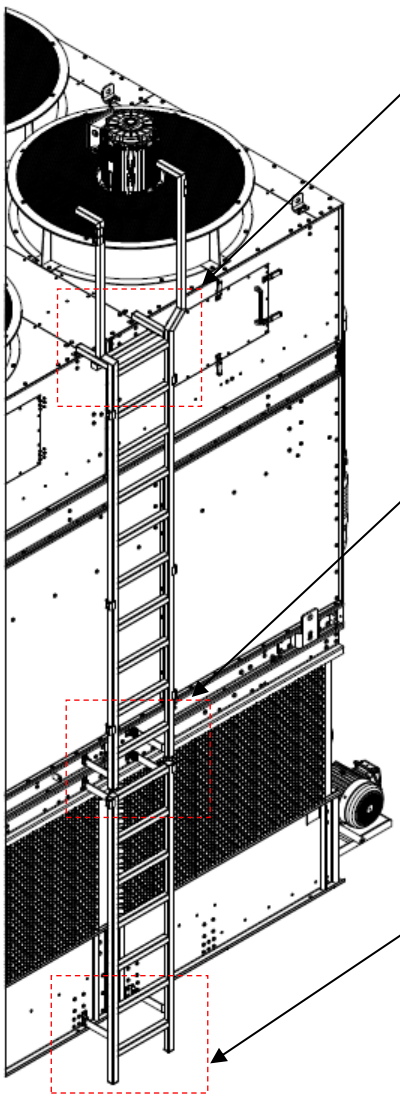


Upper Ladder

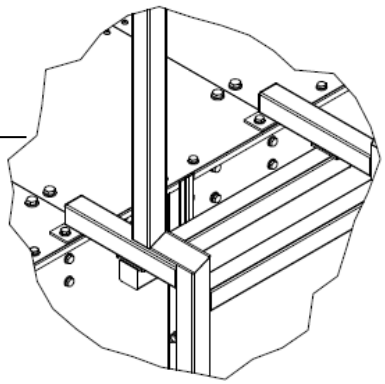


Lower Ladder

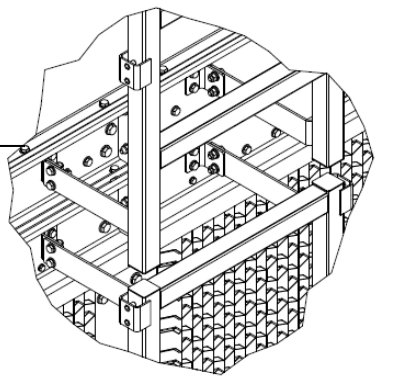
➤ Step 1 : Start Assembly from Lower Ladder



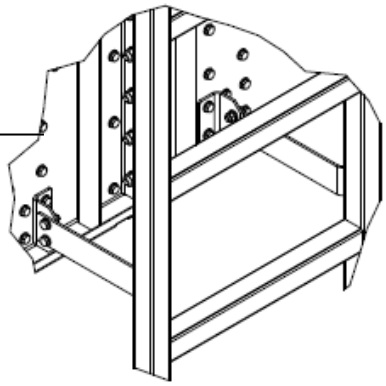
HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



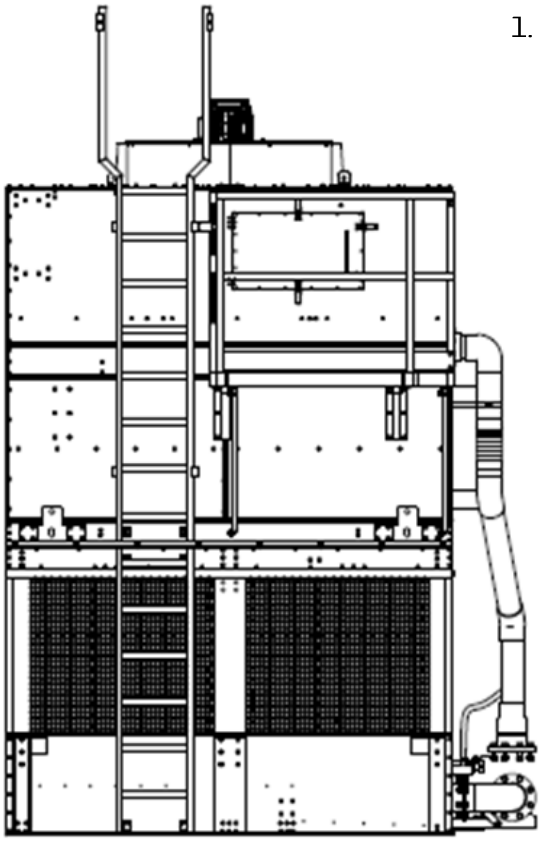
HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



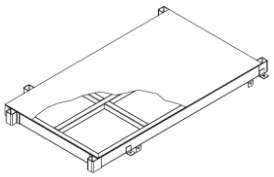
HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



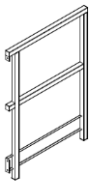
Platform assembly for footprint 9'



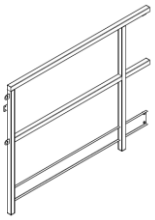
1. Platform A — 1 Set
   - Platform Floor A — 1 Unit
   - Handrail A-1 — 1 Unit
   - Handrail A-2 — 1 Unit
   - Handrail A-3 — 1 Unit
   - Beam support Platform — 2 Units



Platform Floor A



Handrail A-1



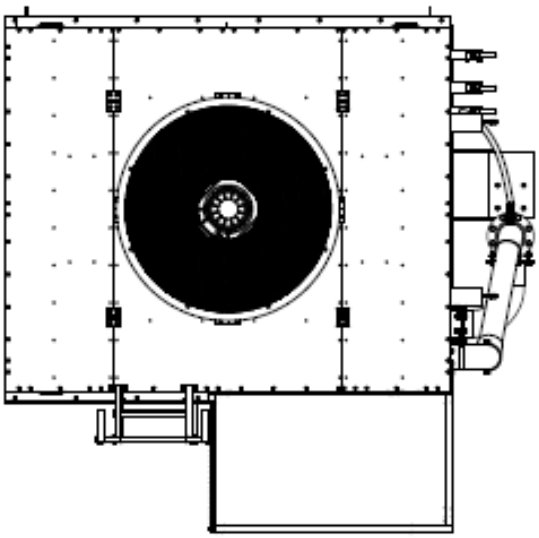
Handrail A-2

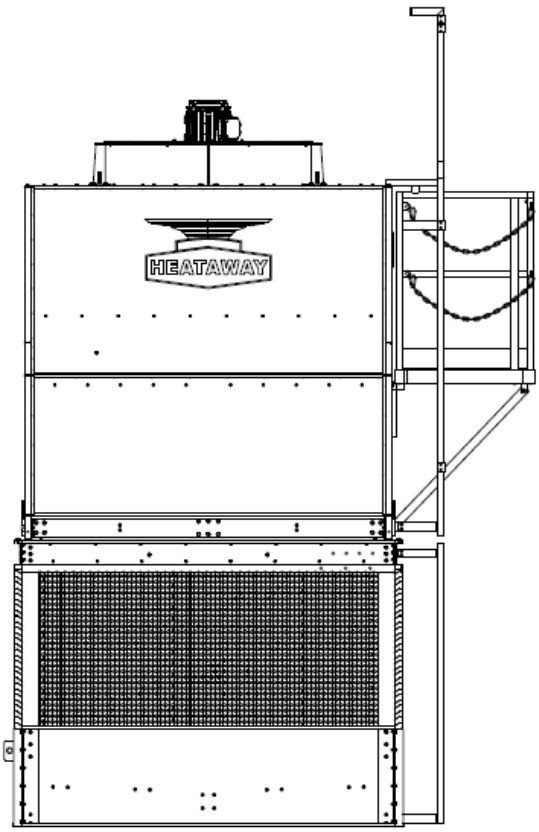


Handrail A-3



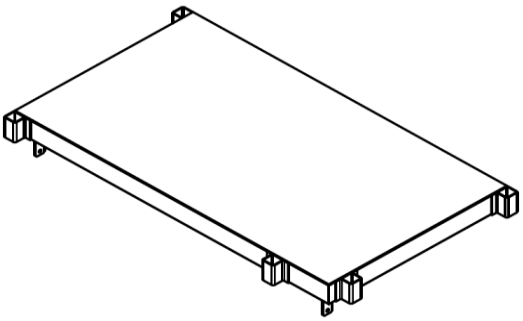
Beam support Platform

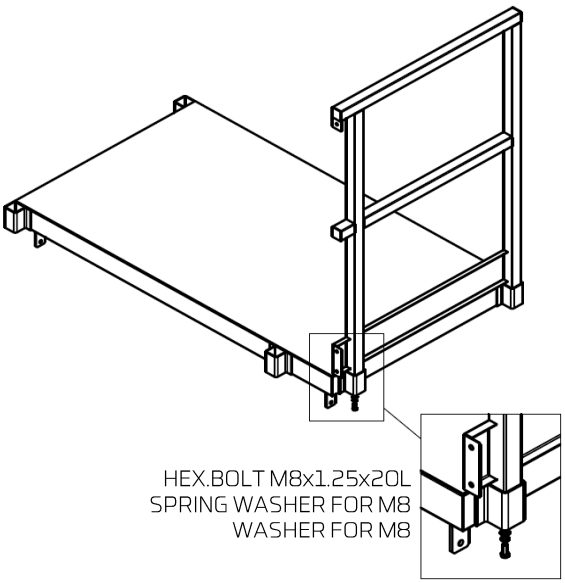


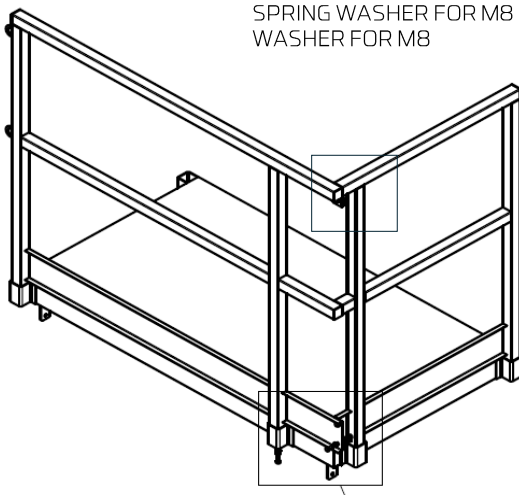


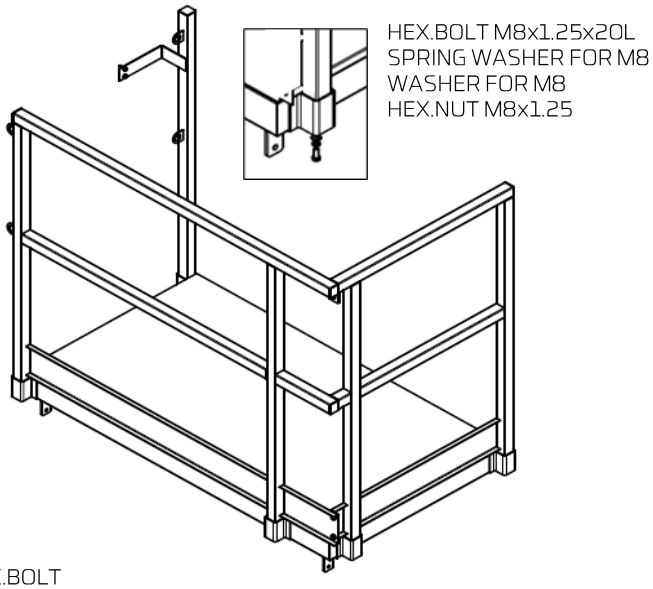
Platform assembly for footprint 9'

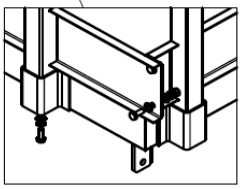
Step 1: Start Assembly from Platform A





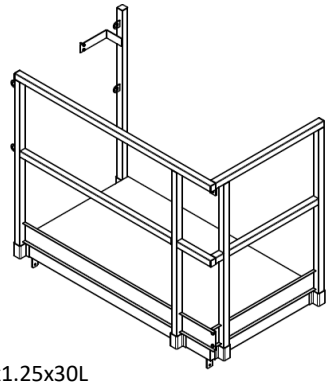


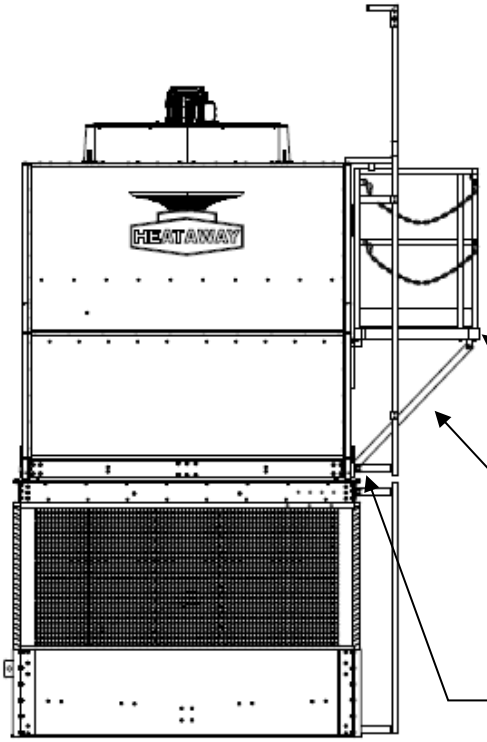




Platform assembly for footprint 9'

➤ Step 2 : Install Platform A

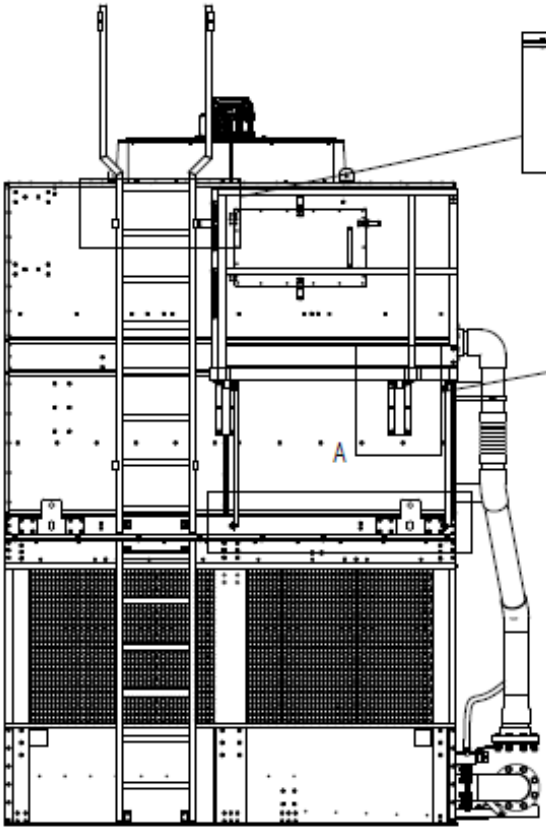


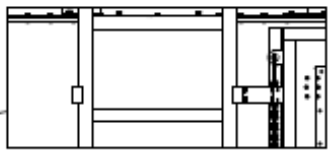


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

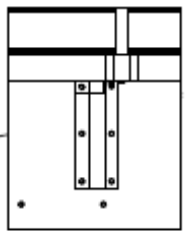
Beam support Platform

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

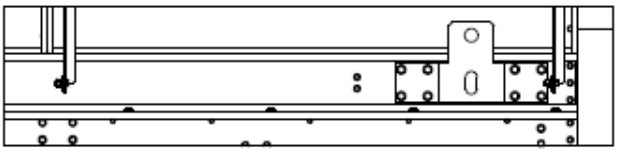




HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



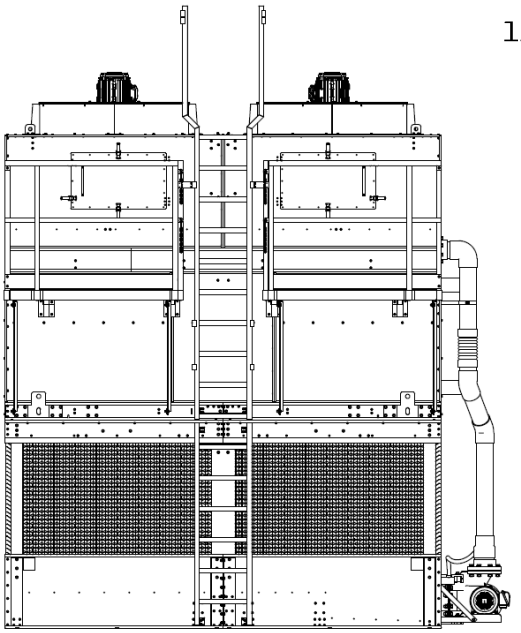
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



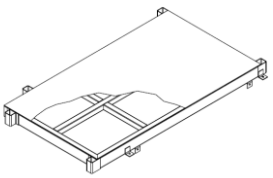
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

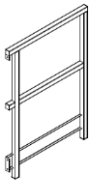
Platform assembly for footprint 12'



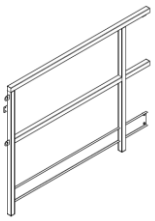
1. Platform A — 1 Set
   - Platform Floor A — 1 Unit
   - Handrail A-1 — 1 Unit
   - Handrail A-2 — 1 Unit
   - Handrail A-3 — 1 Unit
   - Beam support Platform — 2 Units



Platform Floor A



Handrail A-1



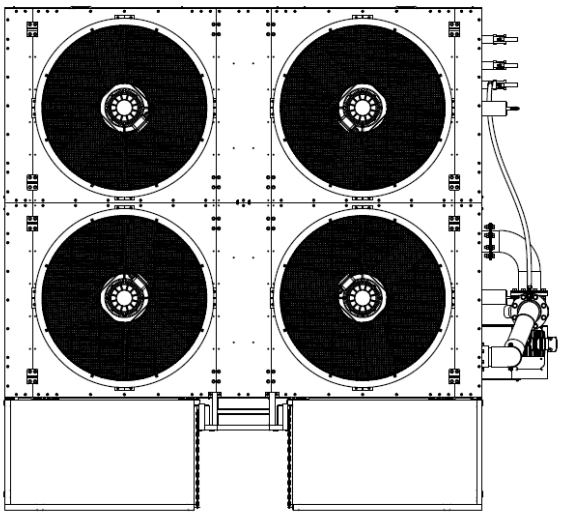
Handrail A-2

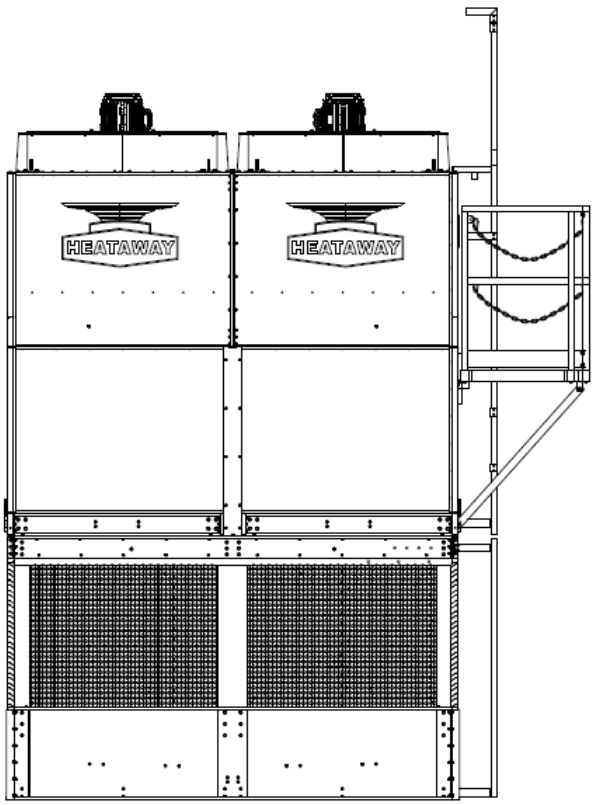


Handrail A-3



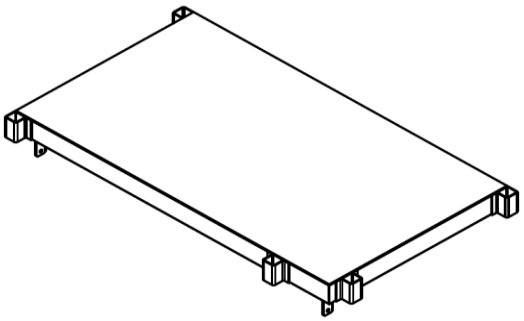
Beam support Platform

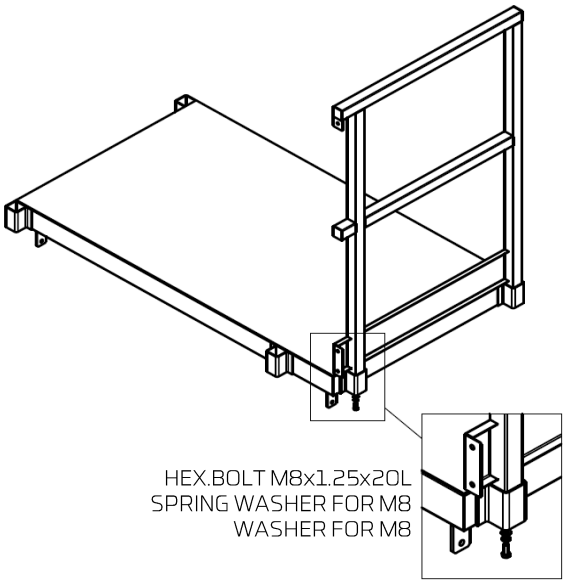


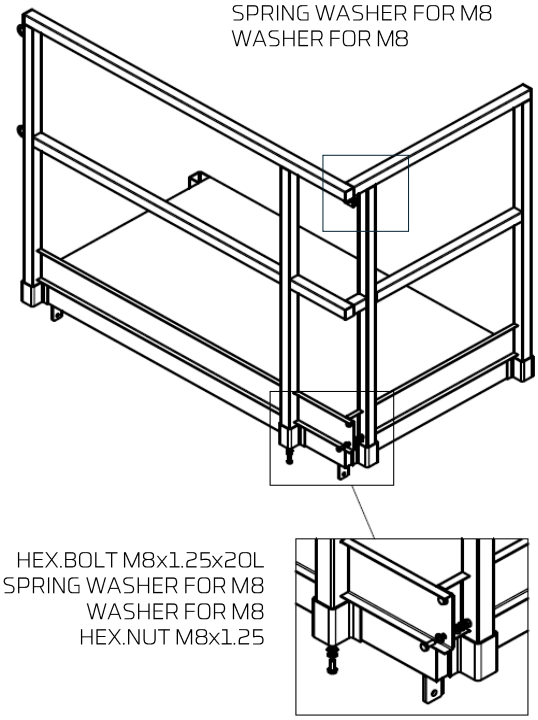


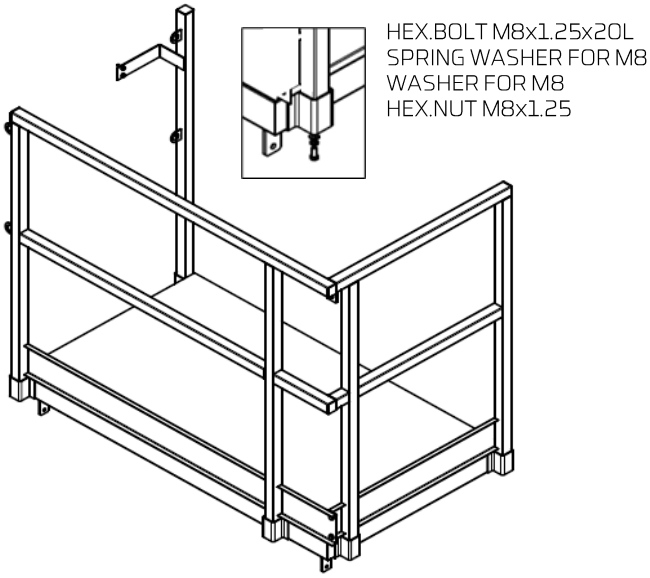
Platform assembly for footprint 12'

➤ Step 1: Start Assembly from Platform A



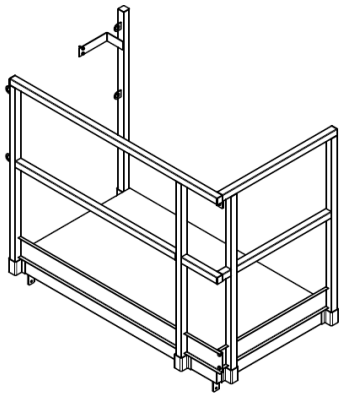


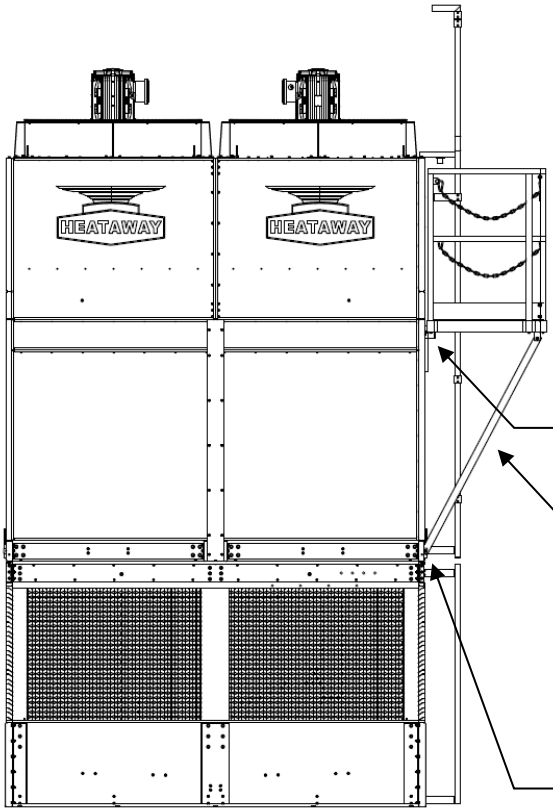




Platform assembly for footprint 12'

Step 1: Start Assembly from Platform A

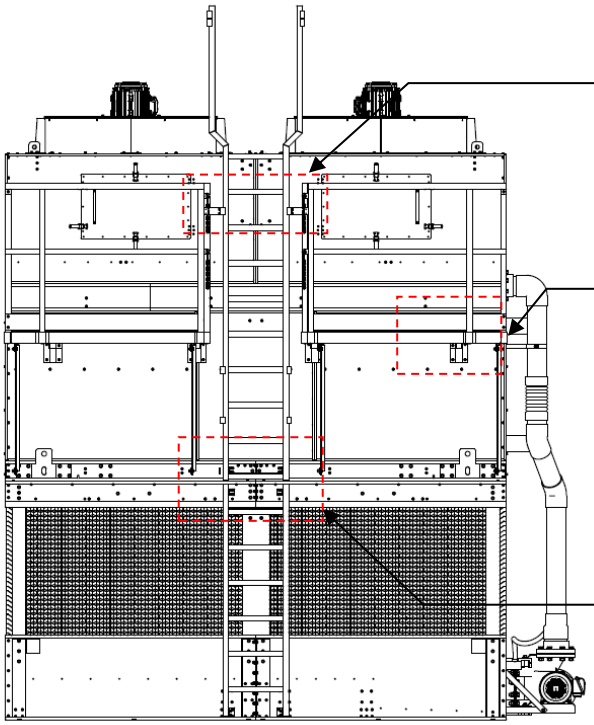


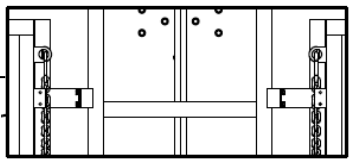


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

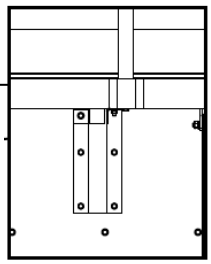
Beam support Platform

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

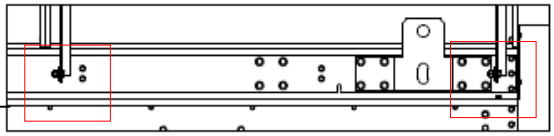




HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



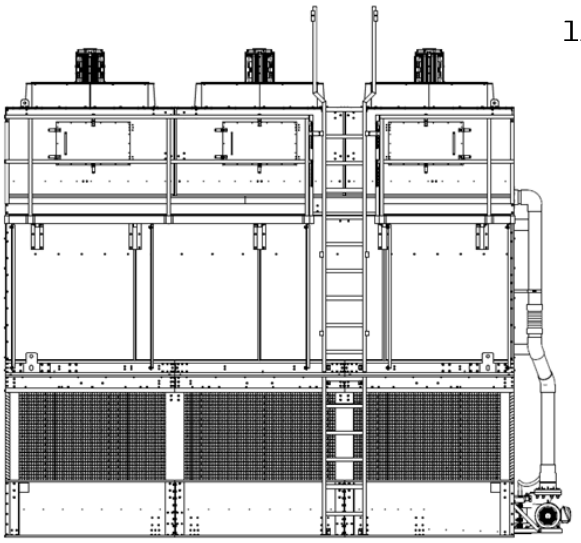
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



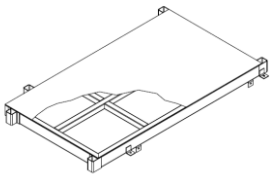
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

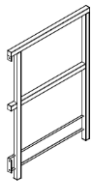
Platform assembly for footprint 18'



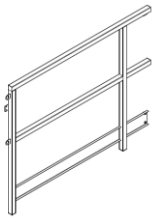
1. Platform A — 1 Set
   - Platform Floor A — 1 Unit
   - Handrail A-1 — 1 Unit
   - Handrail A-2 — 1 Unit
   - Handrail A-3 — 1 Unit
   - Beam support Platform — 2 Units



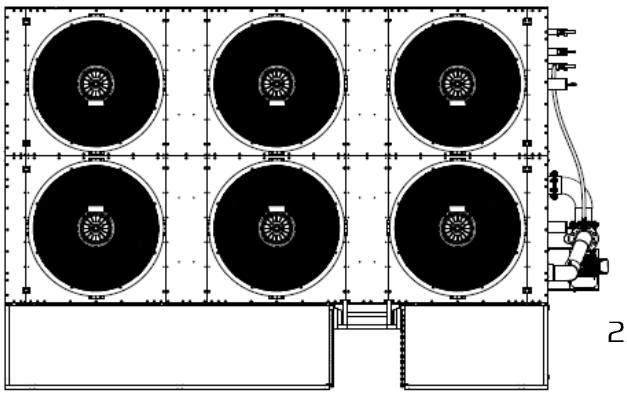
Platform Floor A



Handrail A-1



Handrail A-2



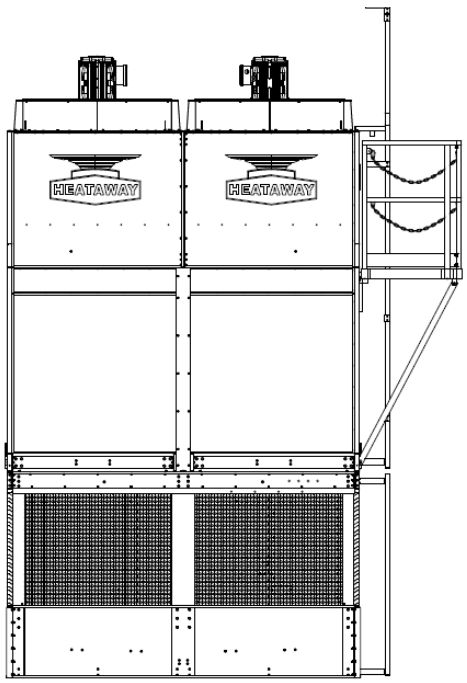


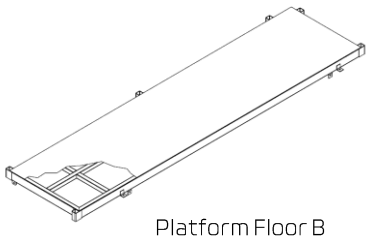
Handrail A-3



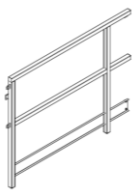
Beam support Platform

2. Platform B — 1 Set
   - Platform Floor B — 1 Unit
   - Handrail B-1 — 1 Unit
   - Handrail B-2 — 1 Unit
   - Handrail B-3 — 1 Unit
   - Beam support Platform — 3 Unit





Platform Floor B



Handrail B-1



Handrail B-2



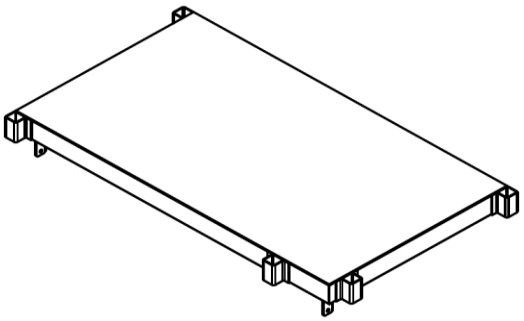
Handrail B-3

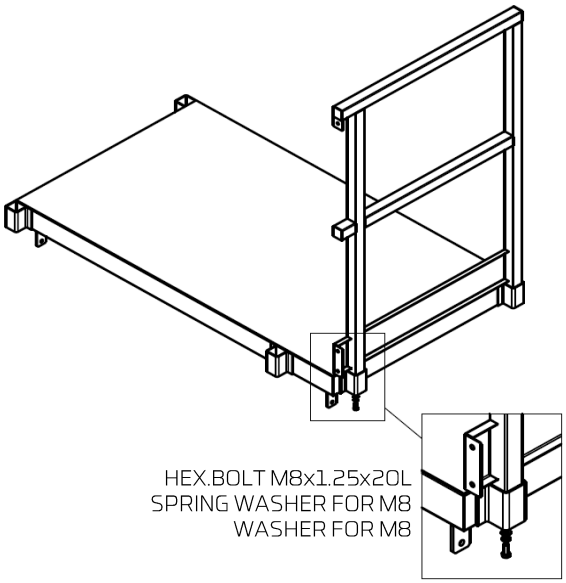


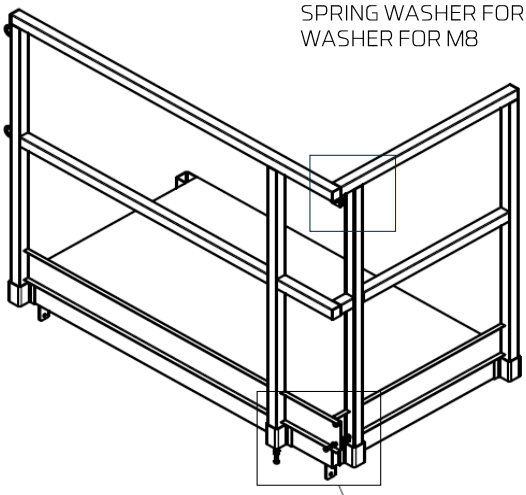
Beam support Platform

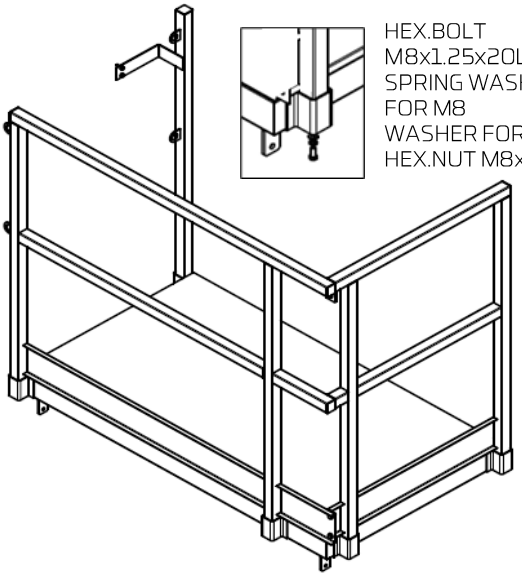
Platform assembly for footprint 18'

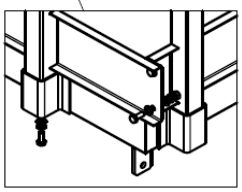
➤ Step 1: Start Assembly from Platform A





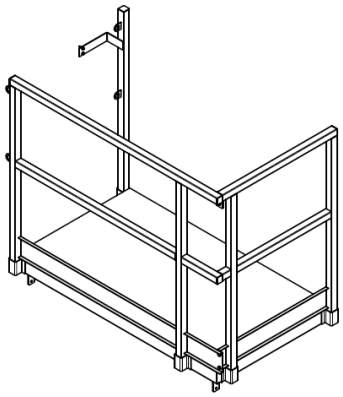


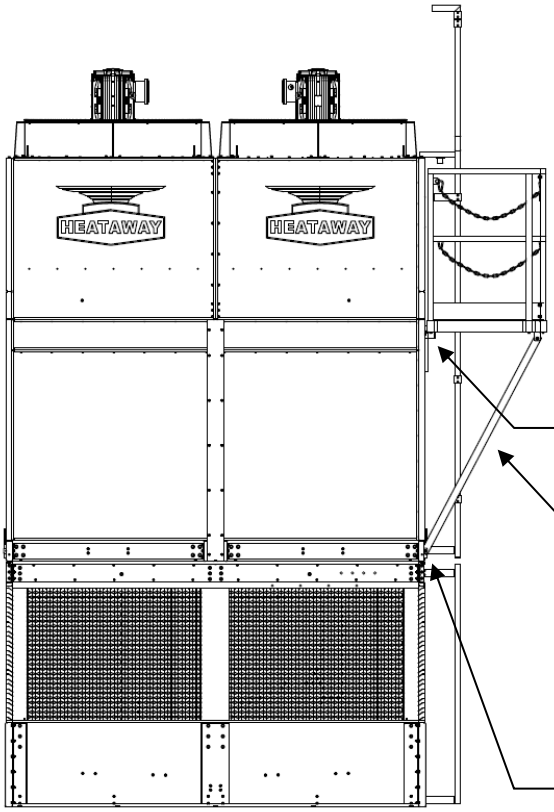




Platform assembly for footprint 18'

➤ Step 1: Start Assembly from Platform A

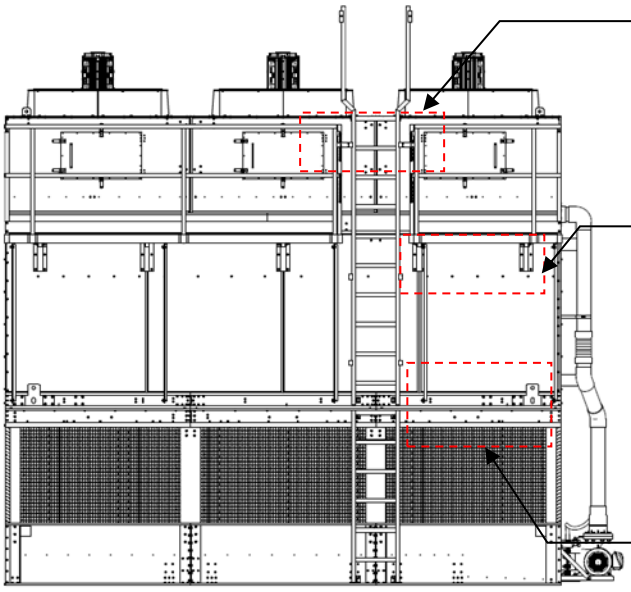


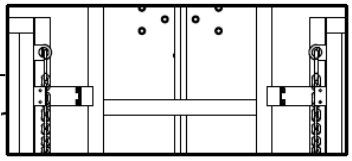


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

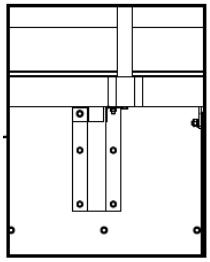
Beam support Platform

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

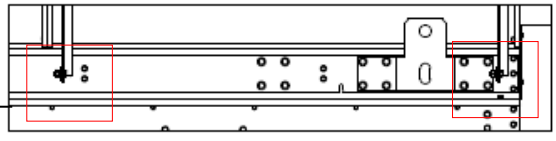




HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

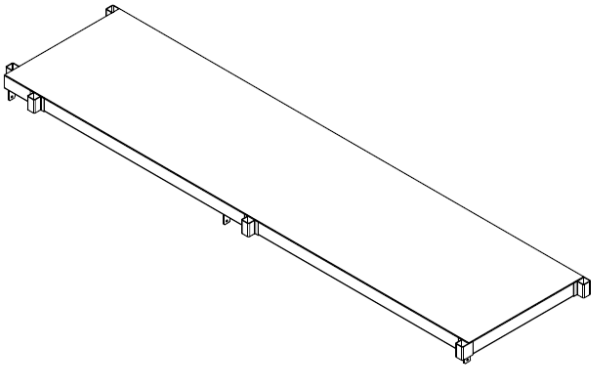


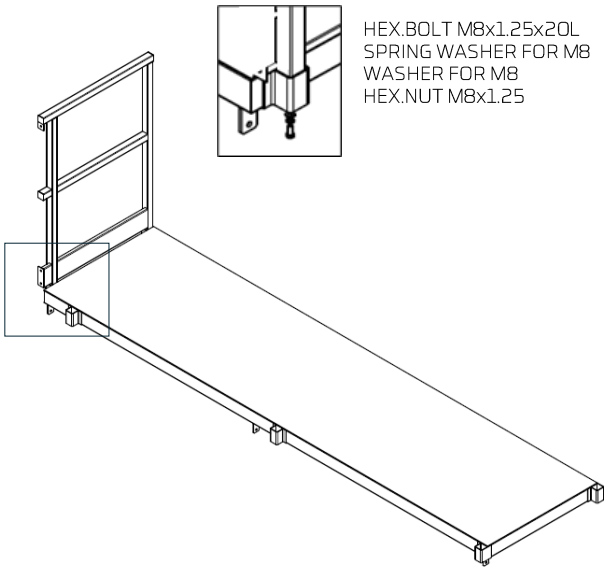
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

Platform assembly for footprint 18'

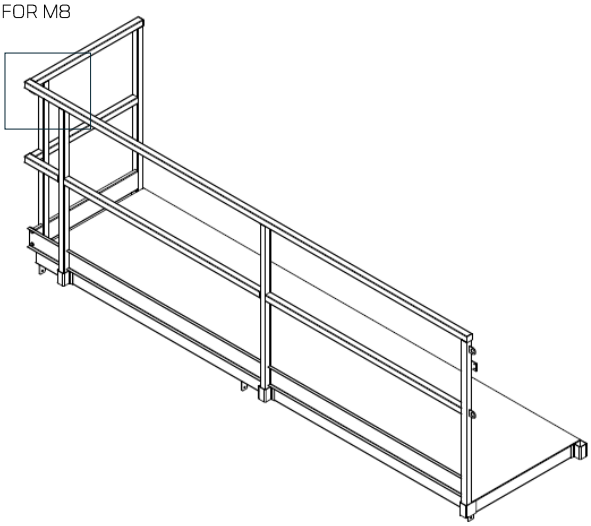
➤ Step 2 : Start Assembly from Platform B





HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

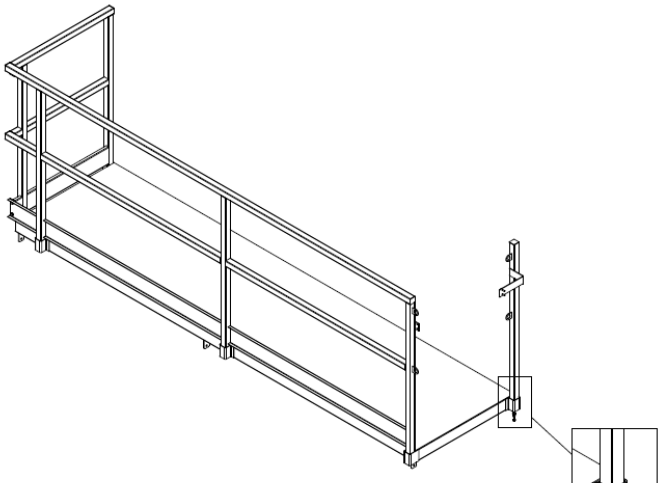
HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8



HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



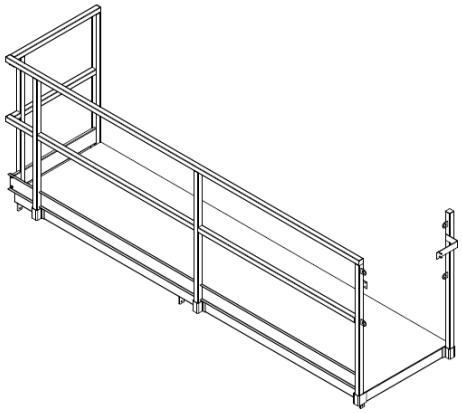
HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

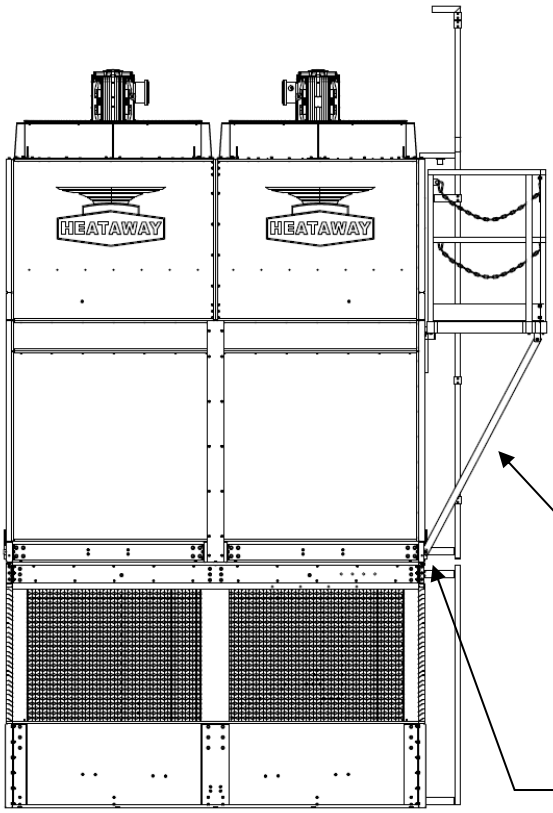


HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

Platform assembly for footprint 18'

➤ Step 1: Start Assembly from Platform A



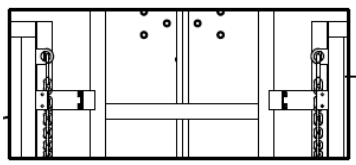


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

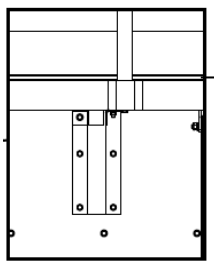
Beam support Platform

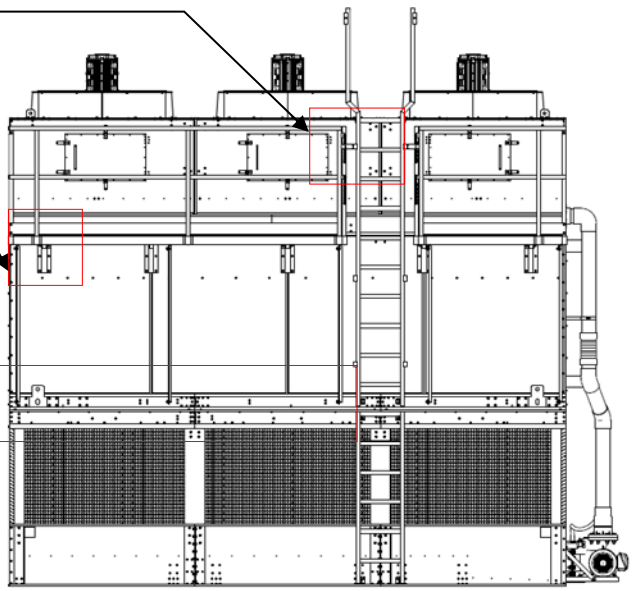
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

HEX.BOLT
M10x1.25x30L
SPRING WASHER
FOR M10
WASHER FOR M10
HEX.NUT M10x1.25
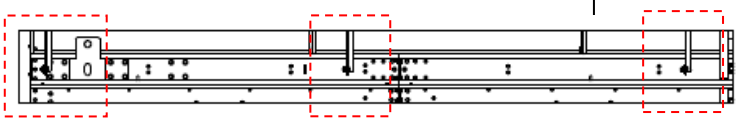


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



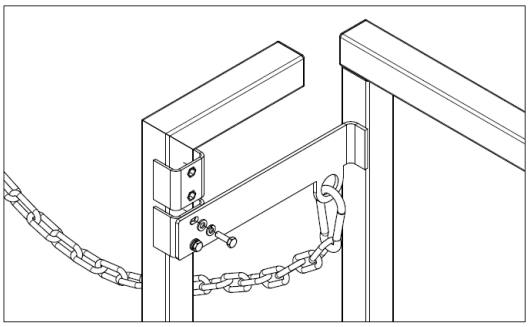


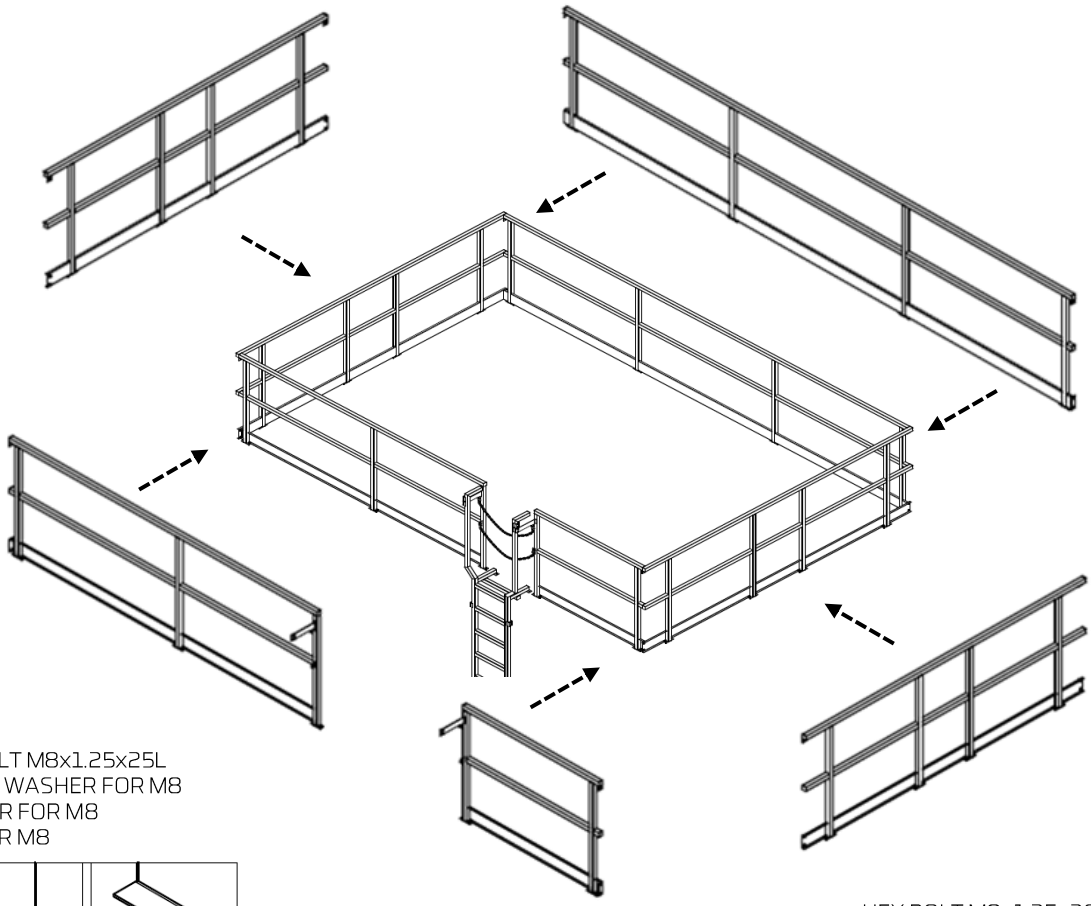
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



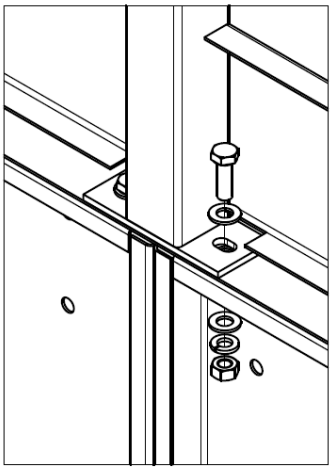
Top Handrail assembly

HEX.BOLT M6x1.25x20L
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

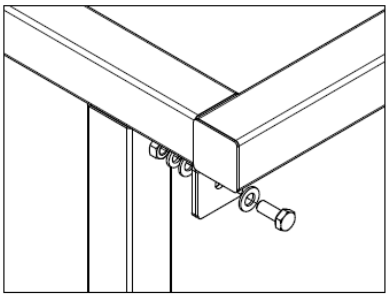




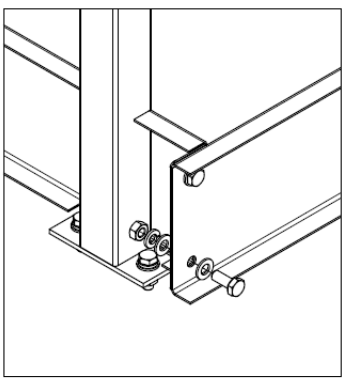
HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
NUT FOR M8



HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
NUT FOR M8

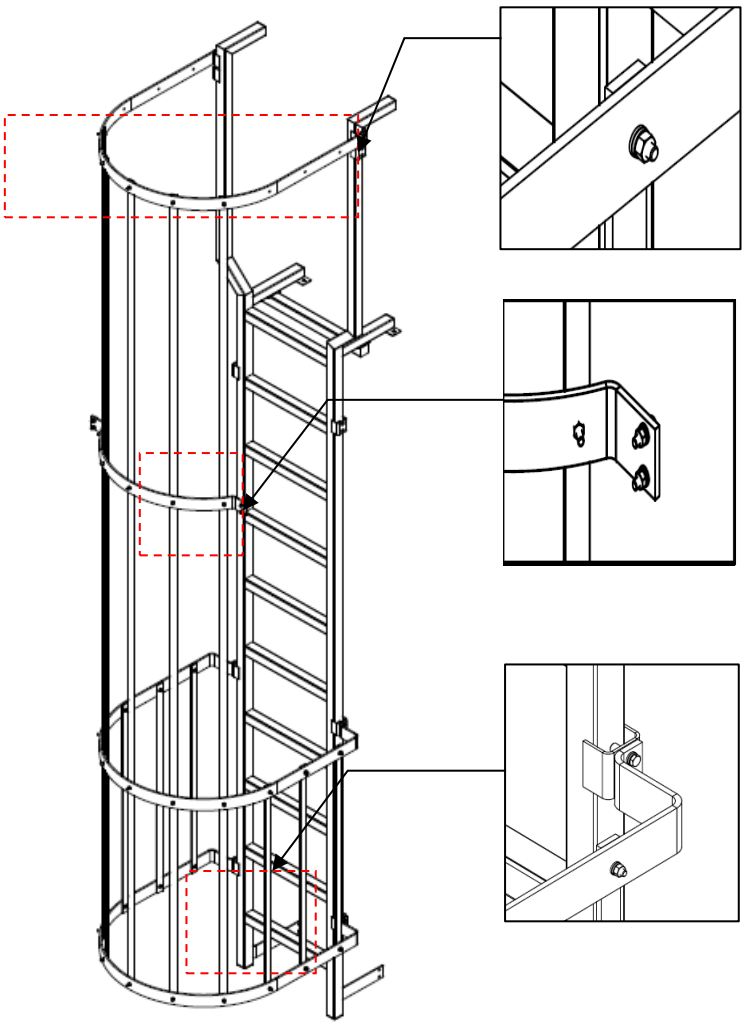


HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
NUT FOR M8



Standard Cage assembly and Addition cage

➤ Standard Cage

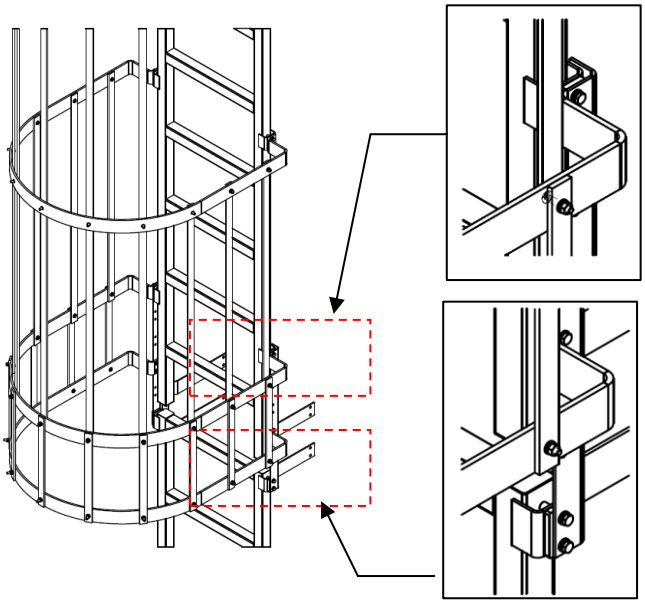


HEX.BOLT M6x1.25x25L (PAN HEAD)
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

HEX.BOLT M6x1.25x25L (PAN HEAD)
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

HEX.BOLT M6x1.25x25L
SPRING WASHER FOR M6
WASHER FOR M6

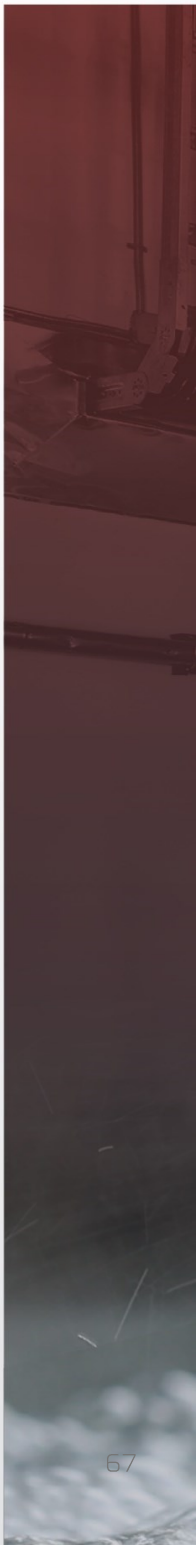
➤ Addition cage



HEX.BOLT M6x1.25x30L (PAN HEAD)
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

HEX.BOLT M6x1.25x25L
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6





HEATAWAY

WORLD CLASS QUALITY

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