

SUBMITTAL REVIEW

**Project No.:**  
24-050

**Project:**  
BMO University Plaza

**Attention:**  
Mauro Di Tacchio  
OnSite Construction

**Distribution:**  
Chanchal Banwait  
OnSite Construction

**Submittal Review No.:**  
SX-025

**Submittal Review Title:**  
HVAC Split AC Unit

**Date:**  
12/4/2024

**Pages**  
12 (incl cover)

| REF. No. | Item               | Status            |
|----------|--------------------|-------------------|
| SX-025   | HVAC Split AC Unit | Reviewed as noted |

Comments:

|     |                                                       |
|-----|-------------------------------------------------------|
| 1.0 | Please refer to submittal for KMAI comments (purple). |
| 2.0 | Refer to comments by TMP mechanical consultants.      |
| 3.0 | OnSite to coordinate all trades.                      |

Issued by Kearns Mancini Architects Inc.

Joshua Asiedu, Architectural Designer  
name and title of person signing



signature

12/4/2024

date



## SHOP DRAWING REVIEW

200 KING ST. W., SUITE 310, TORONTO, ON CANADA M5H 3T4  
E tmp@tmptoronto.com | P 416-499-8000

|                                                                                                                                                                                                                         |  |                                     |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|---------------------|
| <b>THE MITCHELL PARTNERSHIP INC.<br/>CONSULTING ENGINEERS</b>                                                                                                                                                           |  |                                     |                     |
| <b>Reviewed by:</b>                                                                                                                                                                                                     |  | <b>Ryne Sternberg</b>               |                     |
| <b>In:</b>                                                                                                                                                                                                              |  | <b>Out:</b>                         | 29 November<br>2024 |
| <b>Reviewed:</b>                                                                                                                                                                                                        |  | <input type="checkbox"/>            |                     |
| <b>Reviewed With<br/>Comments:</b>                                                                                                                                                                                      |  | <input checked="" type="checkbox"/> |                     |
| <b>Not Acceptable,<br/>Resubmit</b>                                                                                                                                                                                     |  | <input type="checkbox"/>            |                     |
| Reviewed for General Arrangement only and subject to any<br>revisions shown. Material, workmanship, dimensions, field<br>clearances & design shall be in accordance with the<br>requirements of the Contract Documents. |  |                                     |                     |

|                        |                                        |
|------------------------|----------------------------------------|
| PROJECT:               | BMO Branch – Windsor – University Mall |
| PROJECT NUMBER:        | 24-1035-000                            |
| SHOP DRAWING NAME:     | SPLIT AC Unit                          |
| SUPPLIER/MANUFACTURER: | Mitsubishi                             |
| SUBMITTAL NO:          | 01                                     |

### 1.0 GENERAL COMMENTS:

- 1.1 Coordinate and verify with mechanical contractor.
  - .1 Piping connections, arrangements and sizes
  - .2 Unit Dimensions relative to site conditions
  - .3 Quantities
- 1.2 Coordinate and verify all refrigerant piping lengths and sizes with manufacturer prior to ordering.



# Submittal

Submittal Number: 023

Revision Number: 00

Due Date: Nov 25, 2024

O.N. Site Construction Inc.  
2861 Sherwood Heights Drive  
Unit 40  
Oakville, ON L6J 7K1

## Job Details:

2680 Tecumseh Road West  
Windsor, ON N9B 3P9  
15.003  
M1-201

## Submit To:

Joshua Asiedu  
BMO

416 536 5666 x213

Project: 24/037 - BMO 2680 Tecumseh Road West - University Mall  
Vendor: Con-Sult Mechanical Inc.

| Reference # | Item # | Description/Manufacturer | Qty | Item Spec - Drawing Ref |
|-------------|--------|--------------------------|-----|-------------------------|
|             | 01     | HVAC: Split AC Unit      |     | M1-201                  |

## Comments:

KEARNS MANCINI ARCHITECTS INC

REVIEWED

REVIEWED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: Dec. 04, 2024

Submittal No.: SX-25 (10 pgs tot)

Reviewed by: JA

This review by KEARNS MANCINI ARCHITECTS INC is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the contract documents prepared by others. This review shall not mean that KEARNS MANCINI ARCHITECTS INC approves the detailed design inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of the responsibility for meeting all requirements of the contract documents. The Contractor is responsible for the dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes or to techniques of construction and installation, and for coordination of work of all trades.

THIS STAMP APPLIES TO  
THIS AND FOLLOWING 11  
PAGES.

GC TO COORDINATE ALL  
TRADES

SITE VERIFY ALL  
DIMENSIONS

O.N. Site Construction INC.

Shop Drawing Review

X

REVIEWED

REVIEWED AS NOTED

REVISE & RESUBMIT

REJECTED.

Nov 21, 2024

Date Reviewed:

Chanchal Banwait

Reviewed By:

This review is for the sole purpose of ascertaining conformance with the general design concept. It does not imply approval of the detail design inherent in the shop drawings, responsibility for which shall remain with this sub-contractor, nor shall such review relieve this sub-contractor of their responsibility for errors or omissions in the shop drawings or of their responsibility for meeting all requirements of the contract documents.

Responsibility for confirmation and co-relation of job site dimensions, for information pertaining solely to fabrication procedures or to techniques of construction or installation, shall remain with this contractor.



54 Audia Court, Unit 2  
Concord, ON L4K 3N5  
(905)-738-1400

## Submittal 24-275-001

| PROJECT NAME                     | PROJECT ADDRESS                         | DATE SUBMITTED |
|----------------------------------|-----------------------------------------|----------------|
| BMO 2680 TECUMSEH WINDSOR 24-275 | 2680 Tecumseh Rd W, Windsor, ON N9B 3P9 | Nov 8, 2024    |

| TO                                                    | FROM                                          |
|-------------------------------------------------------|-----------------------------------------------|
| Chanchal Banwait                                      | PAUL LEDDY                                    |
| COMPANY                                               | COMPANY                                       |
| O.N. SITE CONSTRUCTION INC.                           | Consult Mechanical Inc.                       |
| EMAIL                                                 | EMAIL                                         |
| Chanchal@onsiteconstruction.ca                        | paul.l@consultmechanical.com                  |
| ADDRESS                                               | ADDRESS                                       |
| 2861 Sherwood Heights Dr Unit 40 Oakville, ON L6J 7K1 | 54 Audia Court, Unit 2<br>Concord, ON L4K 3N5 |

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### Title

Mitsubishi Split AC Unit

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### Description

Mitsubishi P-Series Wall Mounted Split AC Unit  
Delta Pack Condensate Pump  
Mounting instructions

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### Package Items

| SPEC                    | SUBSECTION | ITEM             | TYPE          |
|-------------------------|------------|------------------|---------------|
| M0-001 AC Unit Schedule | M0-001     | AC Unit Schedule | Shop Drawings |

## SUBMITTAL DATA: PKA-A18LA-TH & PUY-A18NKA7

18,000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEM

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| Job Name:           | Engineer:                                                                                                       |
| Purchaser:          | Application: <input type="checkbox"/> Std. Cooling <input type="checkbox"/> Ultra Low Ambient Cooling           |
| Submitted To:       | For: <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |
| Submitted By:       | Location:                                                                                                       |
| System Designation: | Schedule No.:                                                                                                   |



Indoor Unit: PKA-A18LA-TH



Outdoor Unit: PUY-A18NKA7 (-BS)

### UNIT OPTION:

Standard Model.....PUY-A18NKA7  
 Seacoast (BS) Model.....PUY-A18NKA7-BS

### ACCESSORIES:

#### Controls

Wireless Controller (MHK1)  
 Advanced Wired Controller (PAR-40MAU)  
 Simple Wired Controller (PAC-YT53CRAU)  
 Wireless Remote Controller (PAR-FL32MA)  
 Thermostat Interface (PAC-US444CN)  
 M-NET Adapter (PAC-SJ96MA-E)

#### Outdoor Unit

Front Wind Guard (PFR-12-18)  
 Rear Wind Guard (PRE-12-18)  
 Side Wind Guard (PSD-12-18)

**Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit/s. Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.**

### SPECIFICATIONS:

| Rated Conditions (Capacity / Input)* |           |                |
|--------------------------------------|-----------|----------------|
| Cooling                              | Btu/h / W | 18,000 / 1,680 |

\* Rating Conditions per AHRI Standard:  
 Cooling | Indoor: 80°F (27°C) DB / 67°F (19°C) WB  
 Cooling | Outdoor: 95°F (35°C) DB / 75°F (24°C) WB

| Capacity Range |       |                |
|----------------|-------|----------------|
| Cooling        | Btu/h | 8,000 - 18,000 |

| Operating Range |                                     |
|-----------------|-------------------------------------|
| Cooling         | -40F** (-40.0°C) to 115°F (46°C) DB |

\*\* Windscreens required for cooling operation below 23°F (-5°C)

| AHRI Efficiency Rating |      |
|------------------------|------|
| EER                    | 10.7 |
| SEER                   | 19.8 |

| Electrical Power Requirements | 208 / 230V, 1-Phase, 60 Hz |
|-------------------------------|----------------------------|
|-------------------------------|----------------------------|

| Minimum Circuit Ampacity (MCA) * | Breaker Size   | MOCP (Outdoor) |
|----------------------------------|----------------|----------------|
| Indoor 1 AMP                     | Outdoor 11 AMP | 15 AMP         |
|                                  |                | 28 AMP         |

**\* All electrical work shall comply with National (CEC) and local codes and regulations.**

| Indoor Unit               |         |               |                             |
|---------------------------|---------|---------------|-----------------------------|
| Fan Motor (ECM)           | F.L.A.  | 0.19          |                             |
| Fan Motor Output          | W       | 30            |                             |
| SHF                       |         | 0.64 / 0.73** |                             |
| Field Drainpipe Size O.D. | In.(mm) | 5/8 (16)      | Moisture Removal - 5.8pt./h |

| Outdoor Unit    |                                |     |
|-----------------|--------------------------------|-----|
| Compressor      | DC INVERTER-driven Twin Rotary |     |
| Fan Motor (ECM) | F.L.A.                         | 0.5 |
| Fan Motor Power | W                              | 46  |

| Airflow Rate (Low-Mid1-Mid2-Hi) |     |     |                 |
|---------------------------------|-----|-----|-----------------|
| Indoor (Cooling)                | DRY | CFM | 265-310-375-450 |
|                                 | WET |     | 215-255-320-375 |
| Outdoor                         | DRY |     | 1,590           |

| Sound Pressure Level      |         |             |
|---------------------------|---------|-------------|
| Indoor (Low-Mid1-Mid2-Hi) |         | dB(A)       |
| Outdoor                   | Cooling |             |
|                           |         | 34-39-44-48 |
|                           |         | 44          |

| External Dimensions |         |                                                             |
|---------------------|---------|-------------------------------------------------------------|
| Indoor (H x W x D)  | In.(mm) | 11-25/32 x 35-23/64 x 9-11/32 (299 x 898 x 237)             |
|                     |         | 24-13/16 x 31-13/16 + 7/16 x 11-3/16 (630 x 809 + 62 x 300) |
| Outdoor (H x W x D) |         |                                                             |

| Net Weight |          |           |
|------------|----------|-----------|
| Indoor     | Lbs.(kg) | 28 (12.7) |
|            |          | 99 (44)   |
| Outdoor    |          |           |

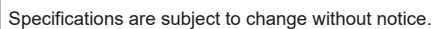
| External Finish |                                 |
|-----------------|---------------------------------|
| Indoor          | White Munsell No. 0.7PB 9.2/0.4 |
| Outdoor         | Ivory Munsell No. 3Y 7.8 / 1.1  |

|             |                              |
|-------------|------------------------------|
| Refrigerant | R410A ; 4lbs., 14oz. (2.2kg) |
|-------------|------------------------------|

| Refrigerant Piping (Flared)           |         |            |
|---------------------------------------|---------|------------|
| Liquid (High Pressure)                | In.(mm) | 1/4 (6.35) |
| Gas (Low Pressure)                    |         | 1/2 (12.7) |
| Maximum Total Refrigerant Pipe Length | Ft. (m) | 165 (50)   |
| Maximum Vertical Separation           | Ft. (m) | 100 (30)   |

Specifications are subject to change without notice.

## Unit: in. (mm)

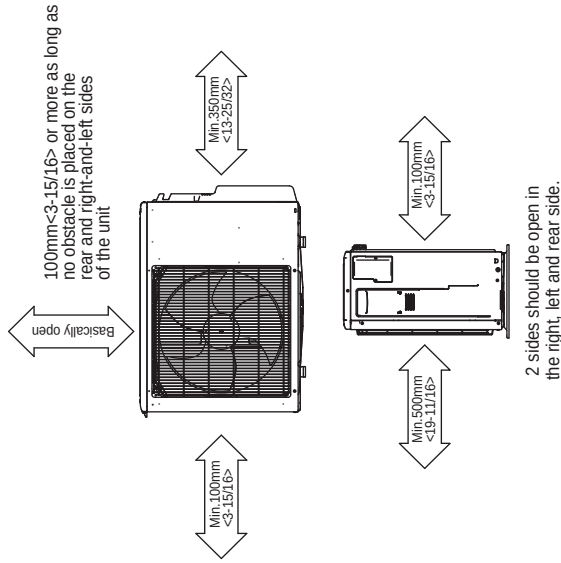


Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.

# DIMENSIONS: PUY-A18NKA7

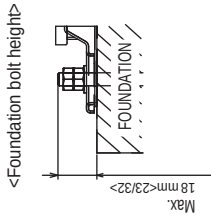
Unit: mm (in.)

Free space around the outdoor unit  
(basic example)

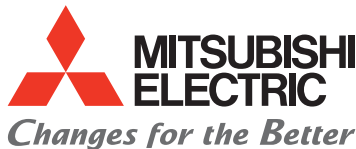
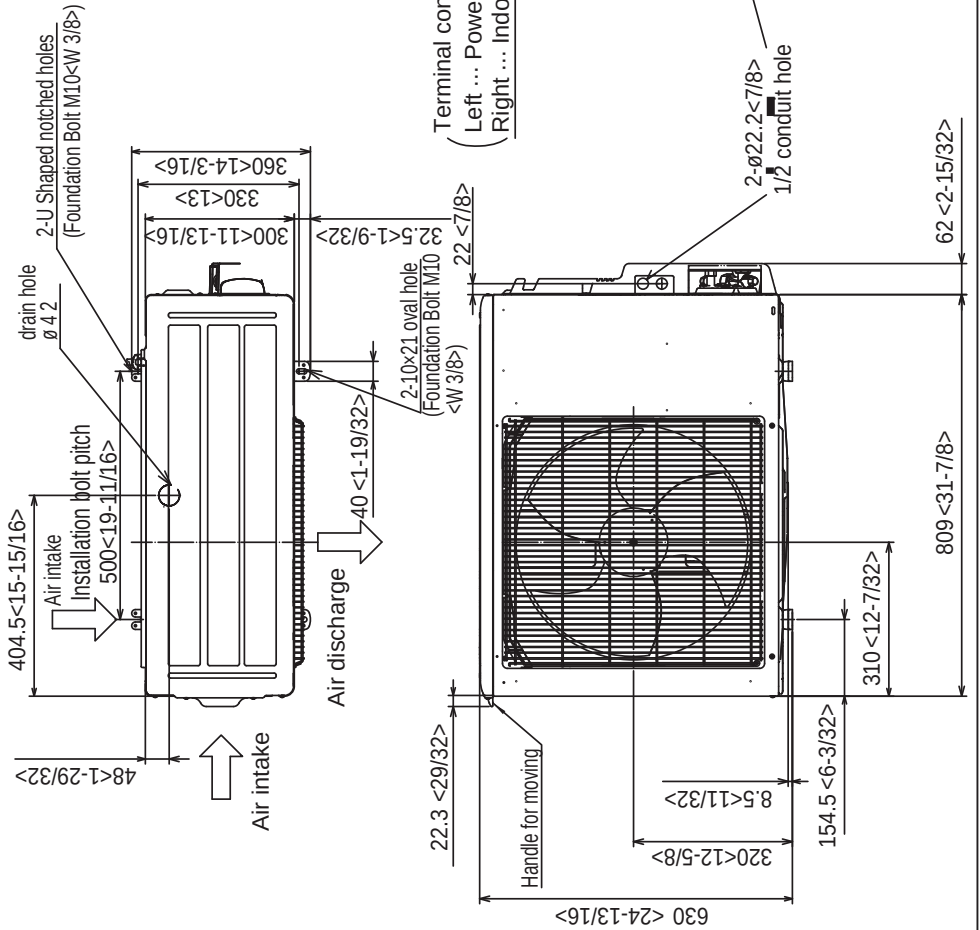
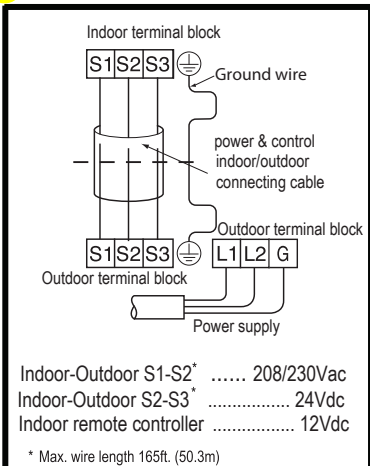


## FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts, washers and nut must be purchased locally).



**MIT: OUTDOOR UNIT SHOULD BE INSTALLED ABOVE THE SNOW LEVEL**



for a greener tomorrow



Model No : DP10UL02UN23

**sauermann®**

# Delta Pack

## Ready to install

The performance of our Si-10 with ducting for install next-to the air conditioning unit.

### SUITABLE FOR

- Up to 5.5 tons
- Wall mounted units

### PERFORMANCE

- 5 gph max. flow
- 33' max. discharge



Delta Pack Condensate Pump M&P SERIES ONLY

### Key features

- Drain safe device
- Easy installation
- Reversible mounting

## Delta Pack tech specs

MAX. FLOW RATE: 5.0 gph

MAX. DISCHARGE HEAD: 33ft; flow rate = 1 gph

MAX. PRESSURE: 46ft; flow rate = 0 gph

SOUND LEVEL AT 3.3FT: 22 dBA according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)

POWER SUPPLY: 230 V ~ 50/60 Hz - 14 W (DP10UL02UN23)

INSULATION CLASS: Double Insulation ☐

DETECTION LEVELS: On:  $\frac{23}{32}$ " • Off:  $\frac{1}{2}$ " • Safety:  $\frac{13}{16}$ "

SAFETY SWITCH: NC 8A resistive - 250 V

THERMAL PROTECTION: 240°F auto-reset

OPERATING CONDITIONS: 100%: Continuous duty

COVER DIMENSIONS: L 5 $\frac{1}{8}$ " x W 5 $\frac{1}{8}$ " x H 2 $\frac{3}{8}$ "

DUCT DIMENSIONS: L 30" x W 3" x H 2 $\frac{3}{8}$ "

SAFETY STANDARDS: UL / CSA certified by Intertek

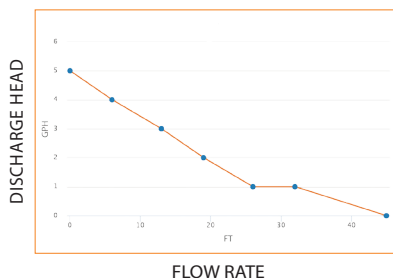
RoHS & WEEE DIRECTIVES: Compliant

PACKAGING: 3.4 lbs - L 30" x W 8 $\frac{7}{8}$ " x H 2 $\frac{3}{8}$ "

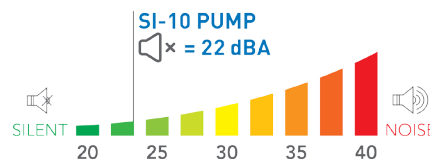
MASTERPACK: 10 pieces



### Actual flow rates (GPH)



### Sound level



### Recommended accessories



Clear PVC hose,  $\frac{1}{4}$ " i.d.  
• ACC 00105: 16ft roll • ACC 00150: 164ft roll



Self-sealing fitting to connect discharge tube to drain pipe.  
• 6 pcs, for  $\frac{1}{4}$ " i.d.

### What's in the box



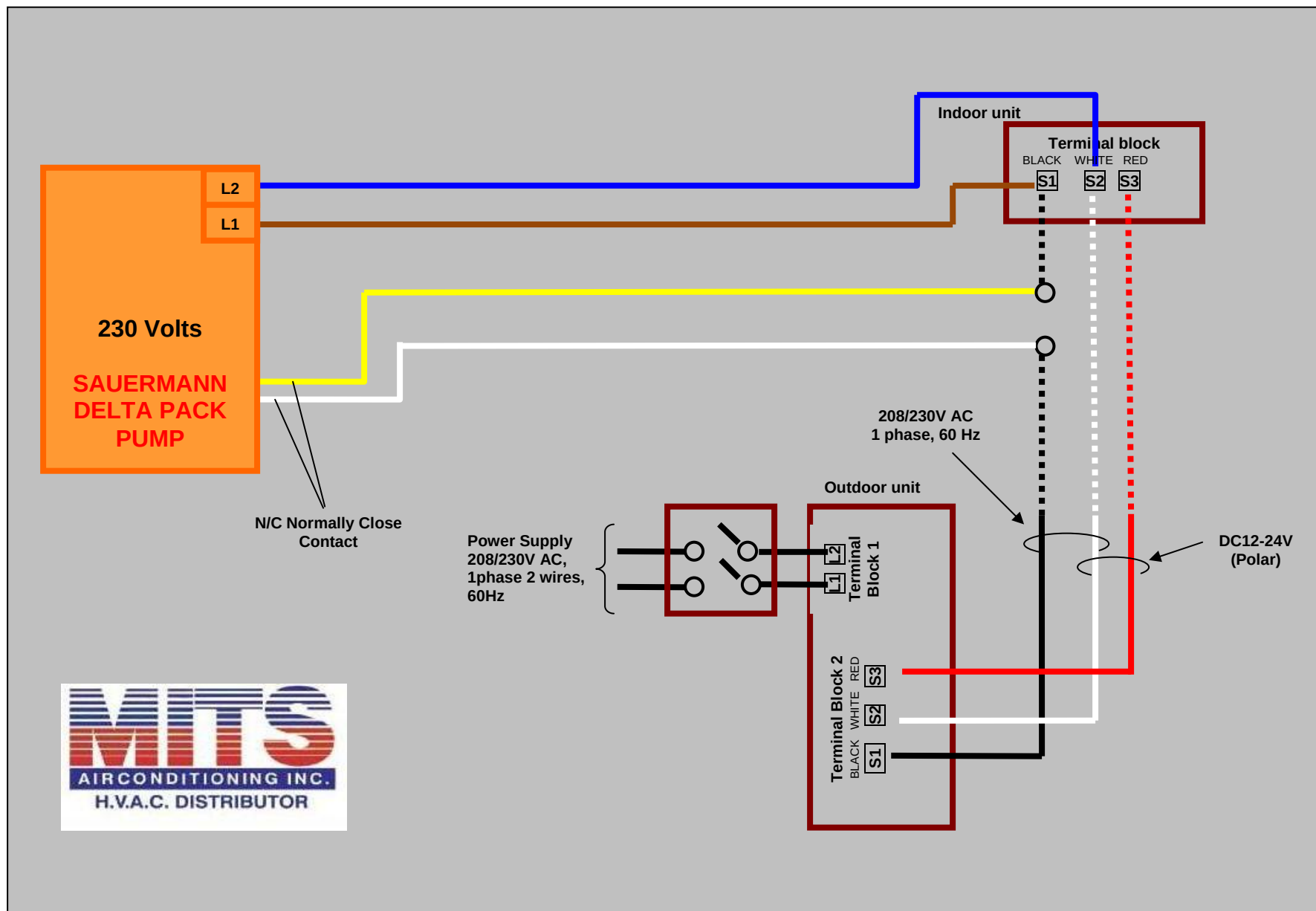
- Si-10 piston pump with clear pvc tube fitted with a premounted drain safe device
- 5' power cable: 2 power wires, 2 safety contact wires
- Vent tube
- 2-part elbow (base and cover)
- 30" of ductline
- Elbow / Duct gasket
- Rubber elbow / split gasket
- Ceiling duct cover
- 20" flexible hose (for connection to the split)
- 6 screws and plugs and 2 pipe clamps



SCAN THIS QR CODE  
FOR ADDITIONAL  
DELTA PACK  
TECHNICAL INFORMATION



## IF CONDENSATE PUMP FAILS INDOOR UNIT WILL SHUT OFF



## Sample Installation Picture.



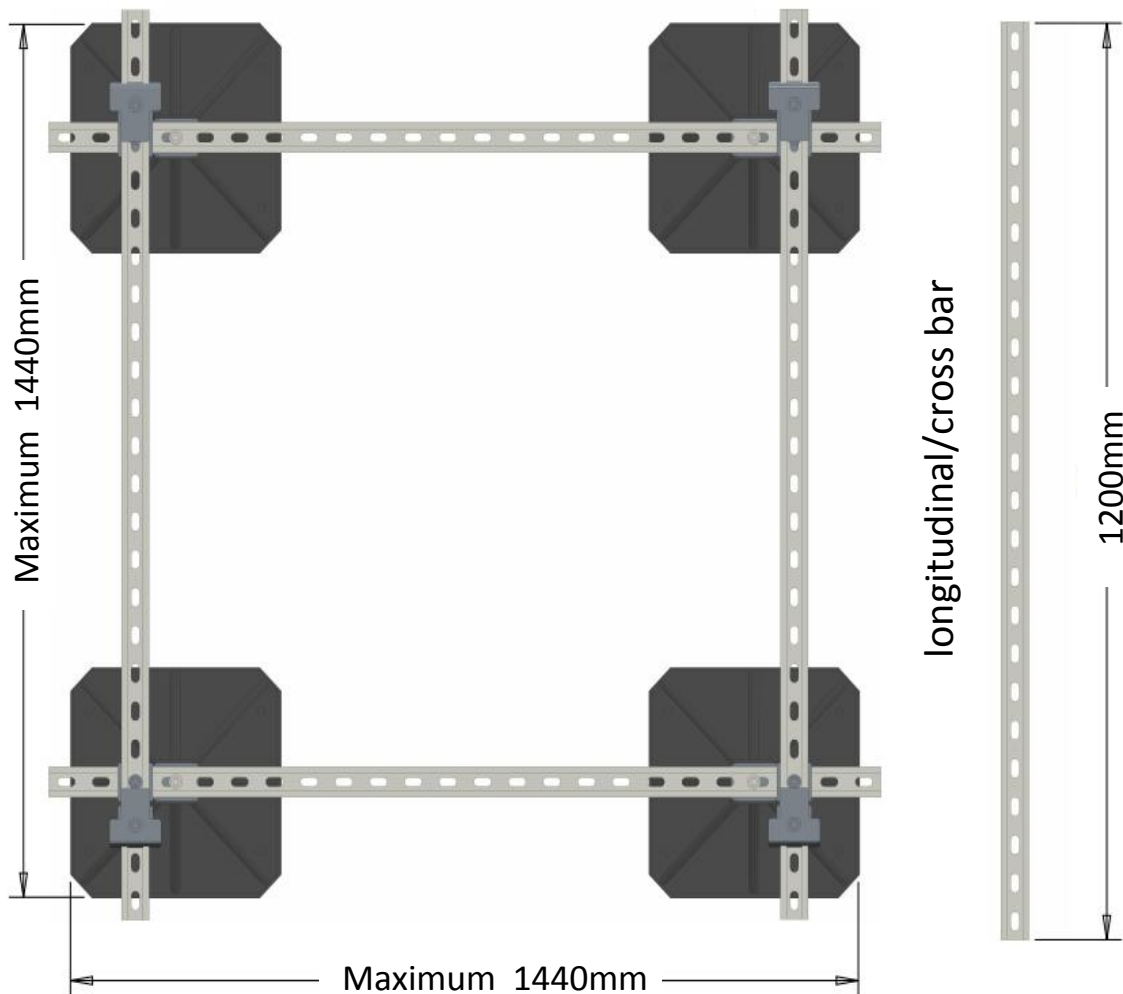
Note: It's possible to install Left hand or Right hand side.

# Condenser Frame

## Loading capacity

41x41x1.8mm Strut Channel : 700 kgs

41x41x1.5mm Strut Channel : 500 kgs



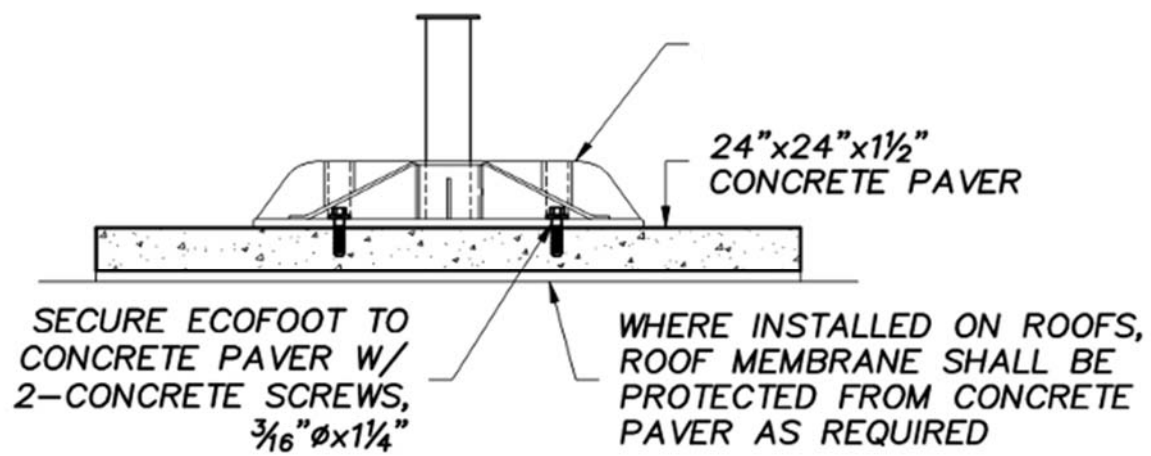
## Components:

- \* 2 x 1.2m longitudinal bars 41\*41mm.
- \* 2 x 1.2m cross bars 41\*41mm.
- \* 4 x complete legs, 300-500mm height adjustable. Screw connector, damping mat and threaded rod included.
- \* 4 x rubber feet 300x300mm.
- \* 4 x fix kits included.
- \* All metal parts Dacromet plated.



**Model DJ-1200**

## BOLTING INSTRUCTIONS



### STANDARD BALLAST DETAIL

CONCRETE PADS ARE NOT INCLUDED . BY OTHERS