



**Project Name :** מועצה אזורית מטה בנימין

**Management Number :**

**Building :**

Client Name: מגה מיזוג

Consultant: אושרי

Created by : Eyal Erez

Company : Fujitsu General

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**1.Material list**

**1.1.Material list**

**Series:VRF system**

Model	Quantity	Type
AJY198LALBH	1	V-III Heat pump
AJY324LALBH	1	V-III Heat pump
AJY342LALBH	4	V-III Heat pump
AJY396LALBH	2	V-III Heat pump
AJY432LALBH	1	V-III Heat pump
AJY468LALBH	1	V-III Heat pump
AUXB14GALH	2	Compact cassette
AUXA30GALH	2	Cassette
ARXA24GBLH	2	Medium static pressure duct
ARXA30GBLH	7	Medium static pressure duct
ARXA36GBLH	7	Medium static pressure duct
ARXA45GBLH	7	Medium static pressure duct
ARXC60GATH	16	High static pressure duct
ASYA09GACH	45	Wall mounted
ASYA12GACH	72	Wall mounted
ASYA14GACH	27	Wall mounted
ASYA18GACH	7	Wall mounted
ASYA24GACH	10	Wall mounted
ASYA034GTAH	5	Wall mounted
ARXA036GLEH	2	Medium static pressure duct (upgrade)
ARXA045GLEH	1	Medium static pressure duct (upgrade)
UTY-DTGY	1	Touch panel controller
UTY-VSGXZ1	3	Signal Amplifier
UTY-RLRY	212	Wired RC(2-wire type)
UTG-UFYC-W	2	Cassette Grille
UTG-UGYA-W	2	Cassette Grille
UTP-AX054A	1	Separation tube
UTP-AX090A	2	Separation tube
UTP-AX180A	9	Separation tube
UTP-AX567A	25	Separation tube
UTP-CX567A	18	Outdoor unit branch kit
UTR-H0906L	7	Header
UTR-H0908L	3	Header
UTR-H1806L	7	Header
UTR-H1808L	13	Header
3/4<-5/8	3	Expander
5/8<-1/2	26	Expander



**1.2. Material List 2 (Pipe)**

**Series: VRF system**

Pipe length(m)									
	1/4	3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8	1-5/8
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**1.3. Material List 3 (Calculation of additional charge refrigerant)**

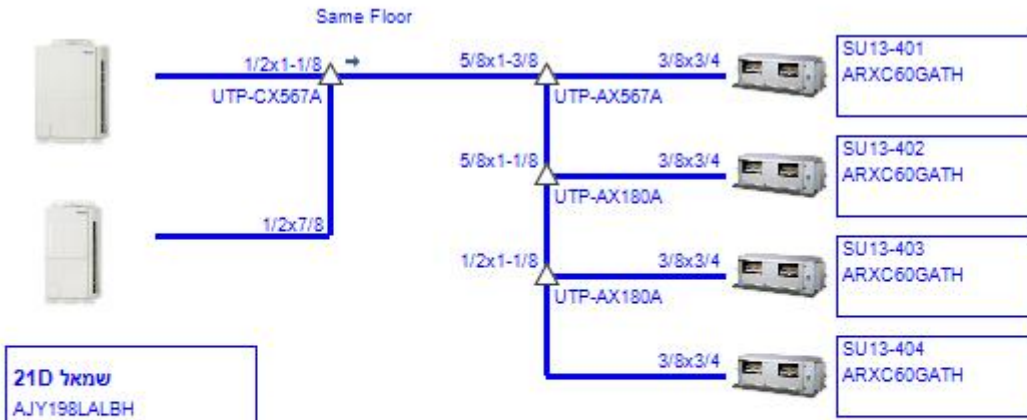
**Series: VRF system**

Refrigerant	kg
R410A	56.10



## 2.Piping Diagrams

### 2.1.Piping 21D שמתל (VRF system)



#### Pipe explanatory notes

aa x bb

aa: Liquid

bb: Gas

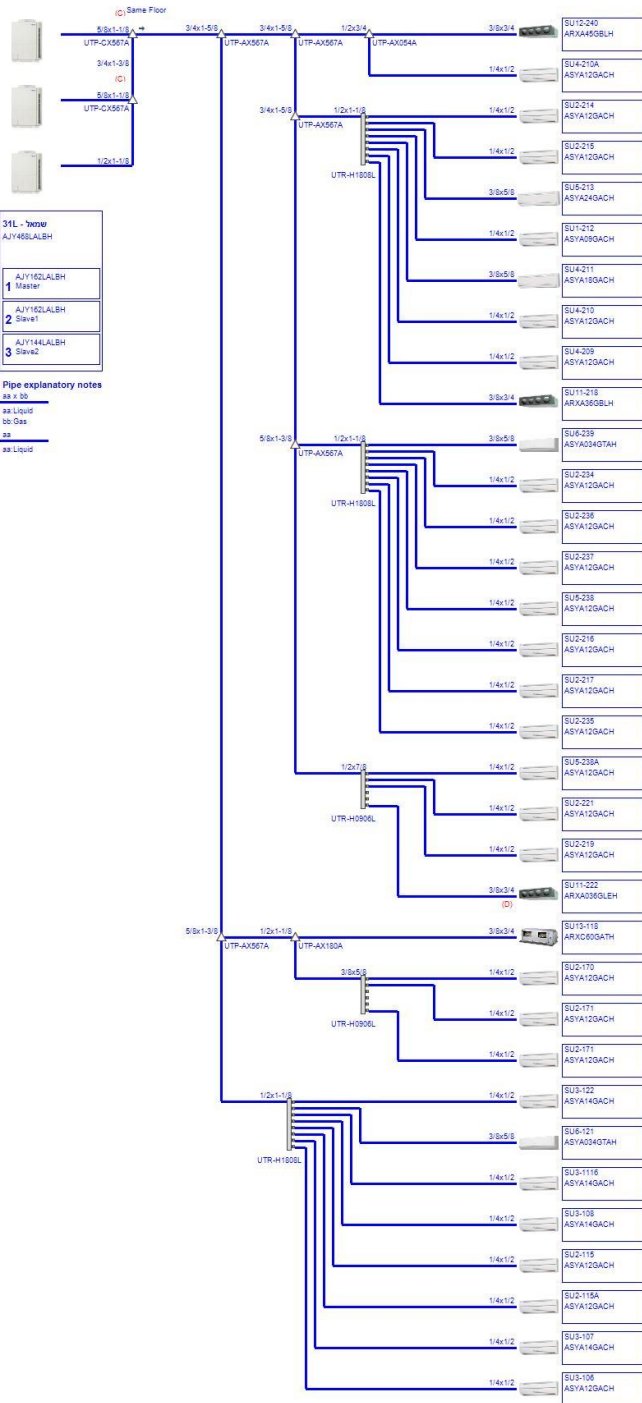
aa

aa: Liquid

Refrig in OU (factory) R410A(kg)	23.50	Add Refrig (piping+extra OU) R410A(kg)	3.30	Total Refrig R410A(kg)	26.80
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## 2.2.Piping 31L – שמאל (VRF system)

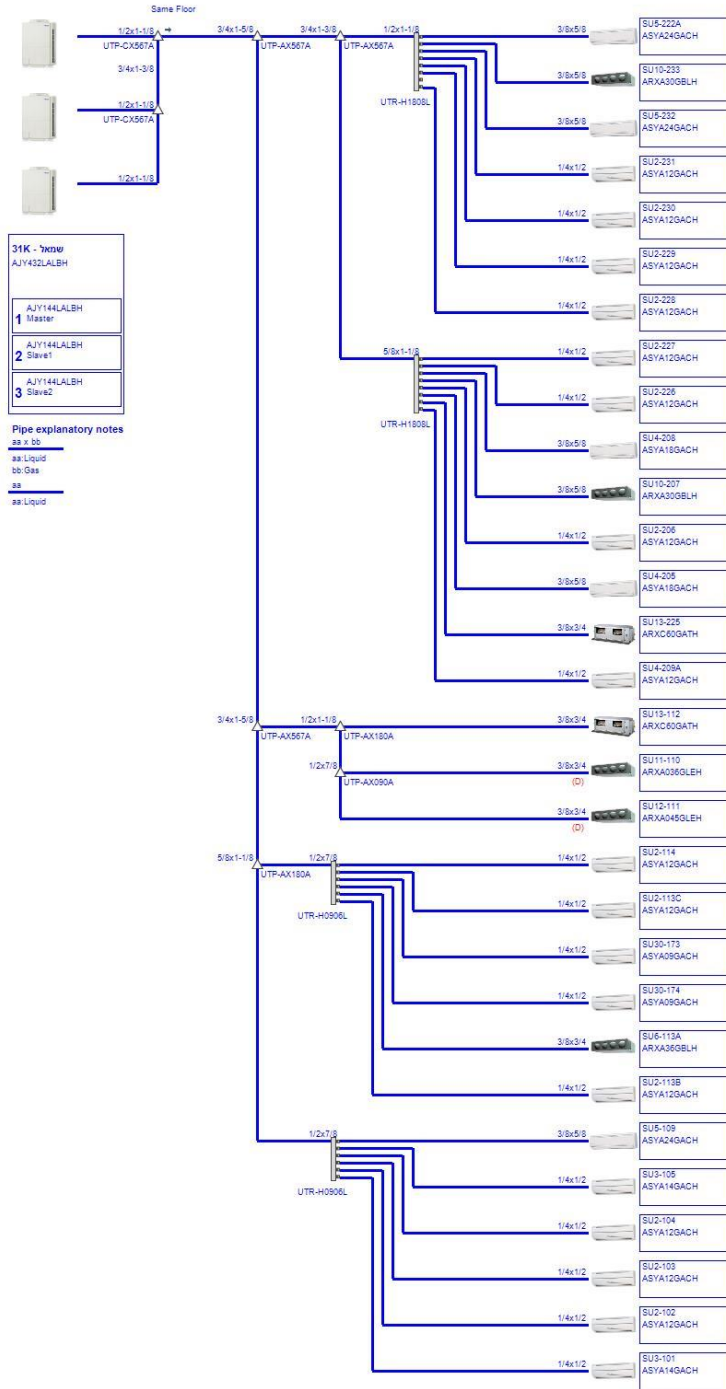


Piping needs reducer to connect I.U. with different pipe size.  
Local purchased expander  
C:5/8"-1/2, D:3/4"-5/8

Refrig in OU (factory) R410A(kg)	35.40	Add Refrig (piping+extra OU) R410A(kg)	9.90	Total Refrig R410A(kg)	45.30
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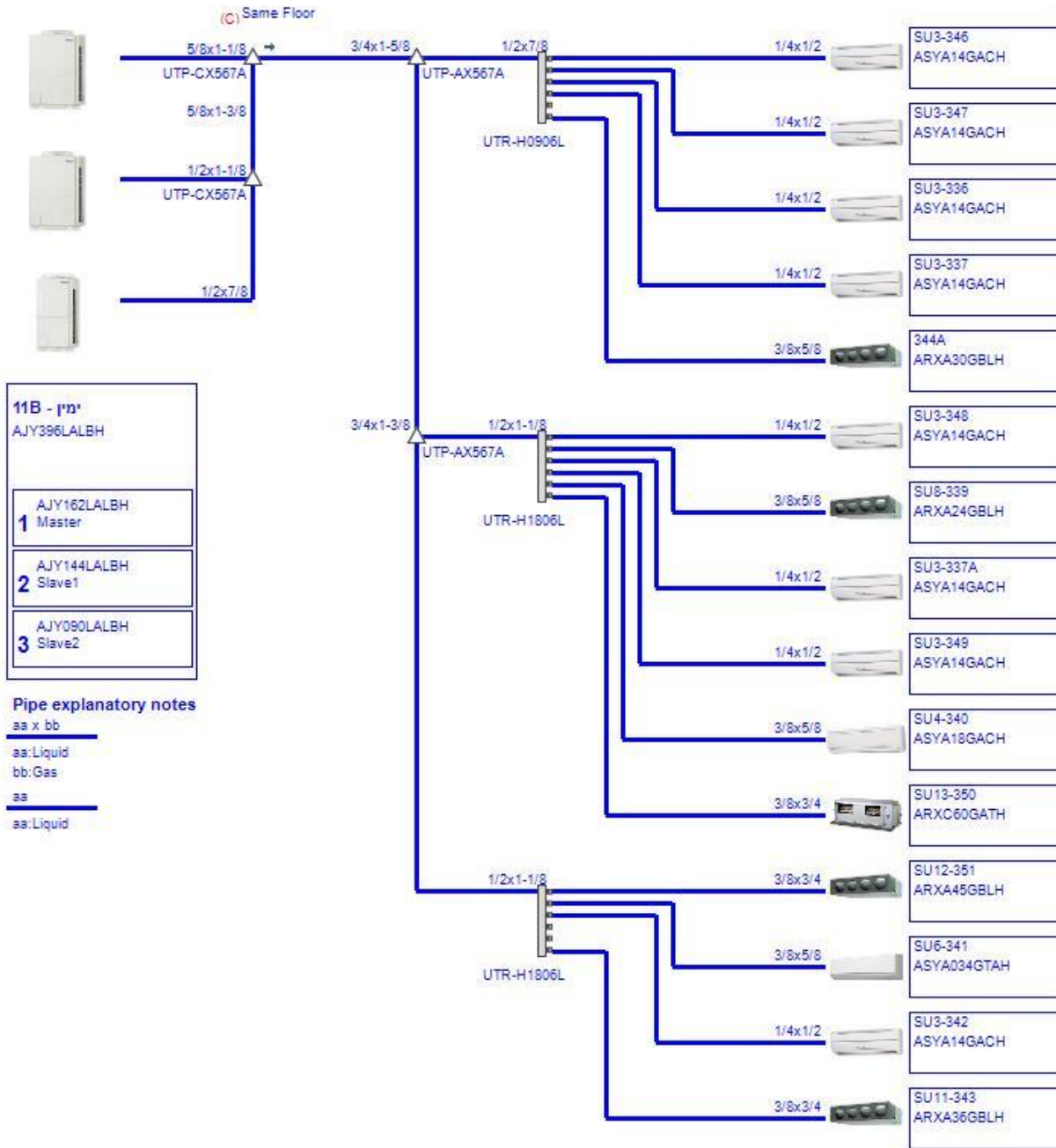
### 2.3.Piping 31K – שמאל (VRF system)



Piping needs reducer to connect I.U. with different pipe size.  
Local purchased expander  
D:3/4<-5/8

Refrig in OU (factory) R410A(kg)	35.40	Add Refrig (piping+extra OU) R410A(kg)	9.90	Total Refrig R410A(kg)	45.30
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## 2.4.Piping 11B – ימין (VRF system)

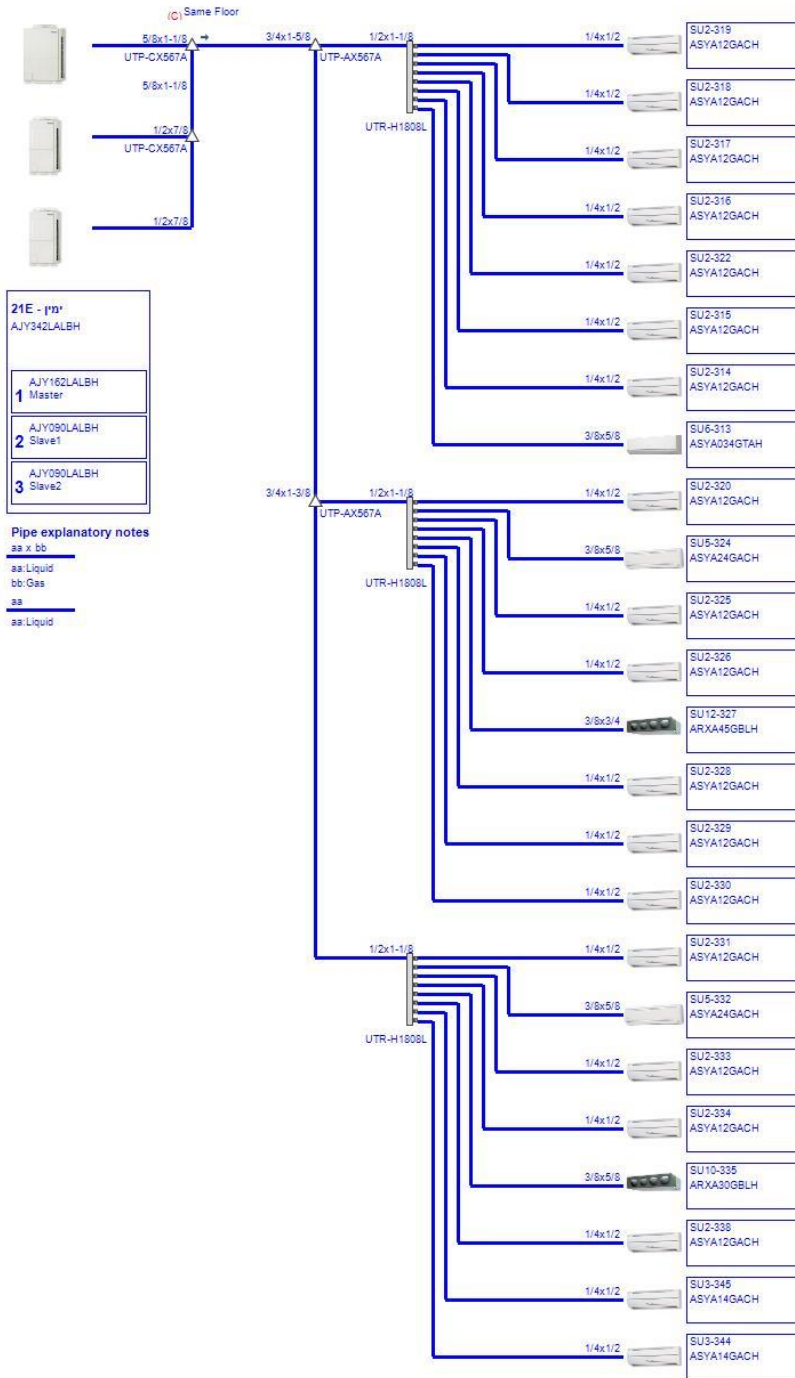


Piping needs reducer to connect I.U. with different pipe size.  
Local purchased expander  
C: 5/8 <- 1/2

Refrig in OU (factory) R410A(kg)	35.30	Add Refrig (piping+extra OU) R410A(kg)	6.60	Total Refrig R410A(kg)	41.90
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## 2.5.Piping 21E – ימין (VRF system)



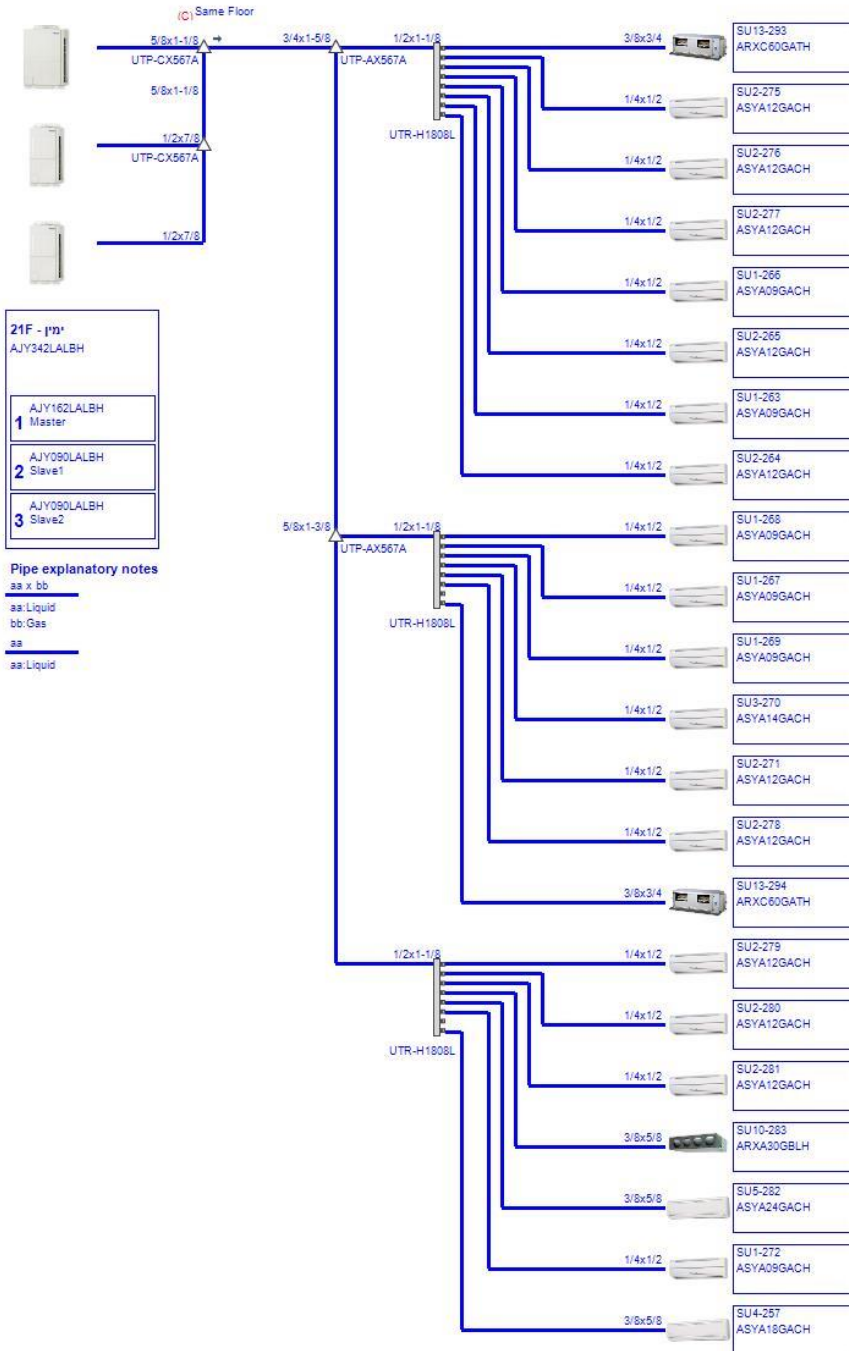
- 21E - ימין**  
AJY342LALBH
- 1 AJY162LALBH Master
  - 2 AJY090LALBH Slave1
  - 3 AJY090LALBH Slave2

**Pipe explanatory notes**  
 aa x bb  
 aa: Liquid  
 bb: Gas  
 aa  
 aa: Liquid

Piping needs reducer to connect I.U. with different pipe size.  
 Local purchased expander  
 C: 5/8"-1/2"

Refrig in OU (factory) R410A(kg)	35.20	Add Refrig (piping+extra OU) R410A(kg)	3.30	Total Refrig R410A(kg)	38.50
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## 2.6.Piping 21F – ימין (VRF system)

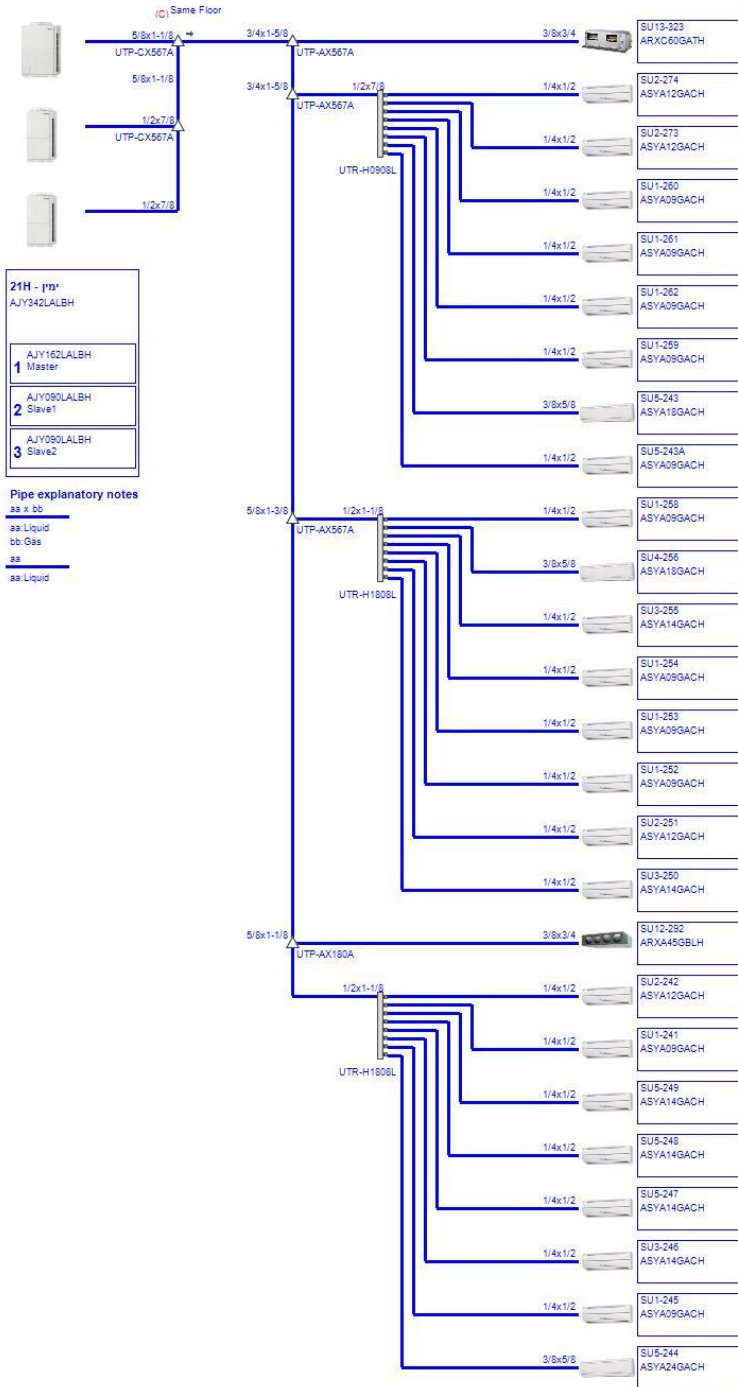


Piping needs reducer to connect I.U. with different pipe size.  
 Local purchased expander  
 C:5/8<-1/2

Refrig in OU (factory) R410A(kg)	35.20	Add Refrig (piping+extra OU) R410A(kg)	3.30	Total Refrig R410A(kg)	38.50
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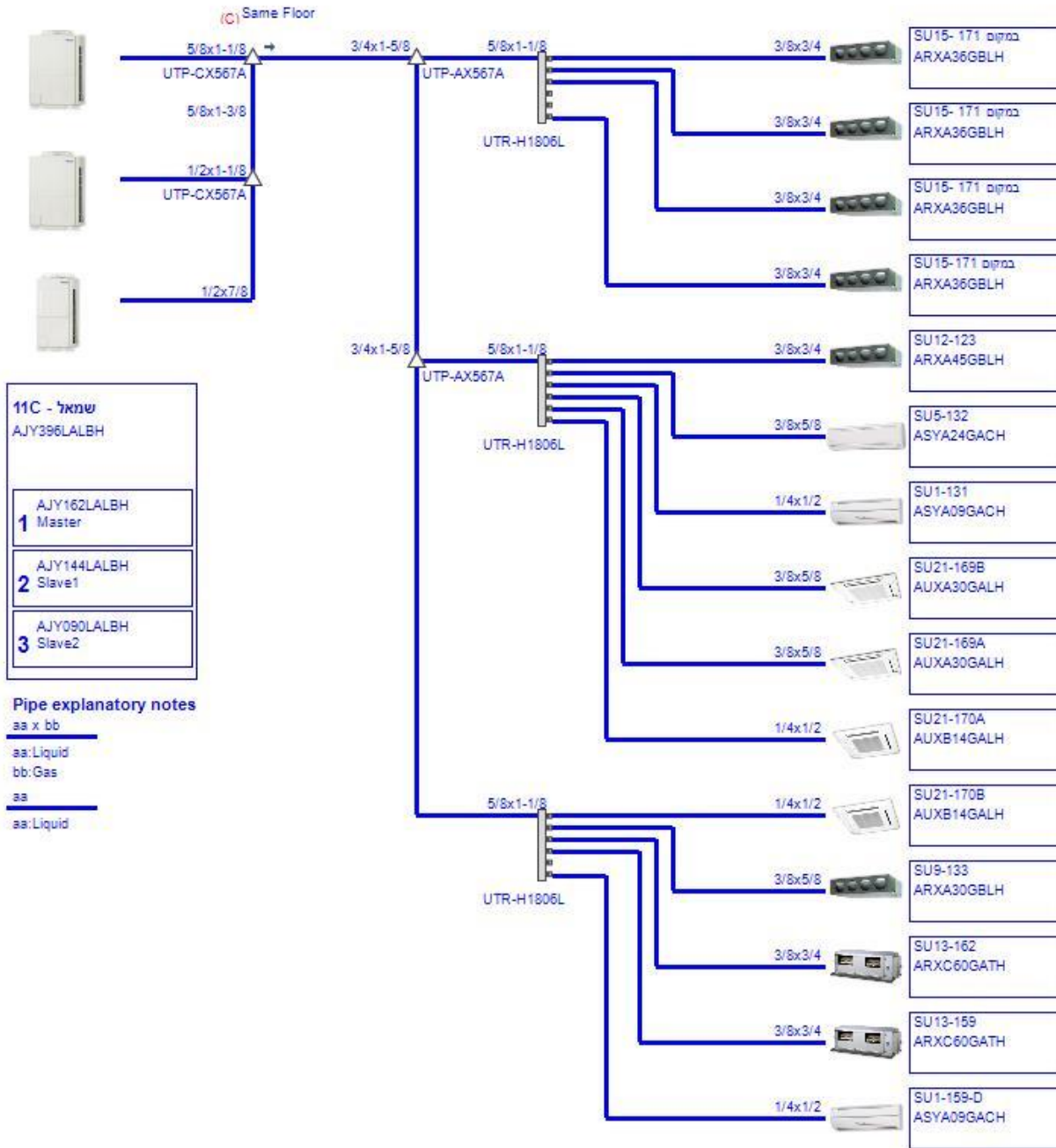
## 2.7.Piping 21H – ימין (VRF system)



Piping needs reducer to connect I.U. with different pipe size.  
Local purchased expander  
C:5/8<-1/2

Refrig in OU (factory) R410A(kg)	35.20	Add Refrig (piping+extra OU) R410A(kg)	3.30	Total Refrig R410A(kg)	38.50
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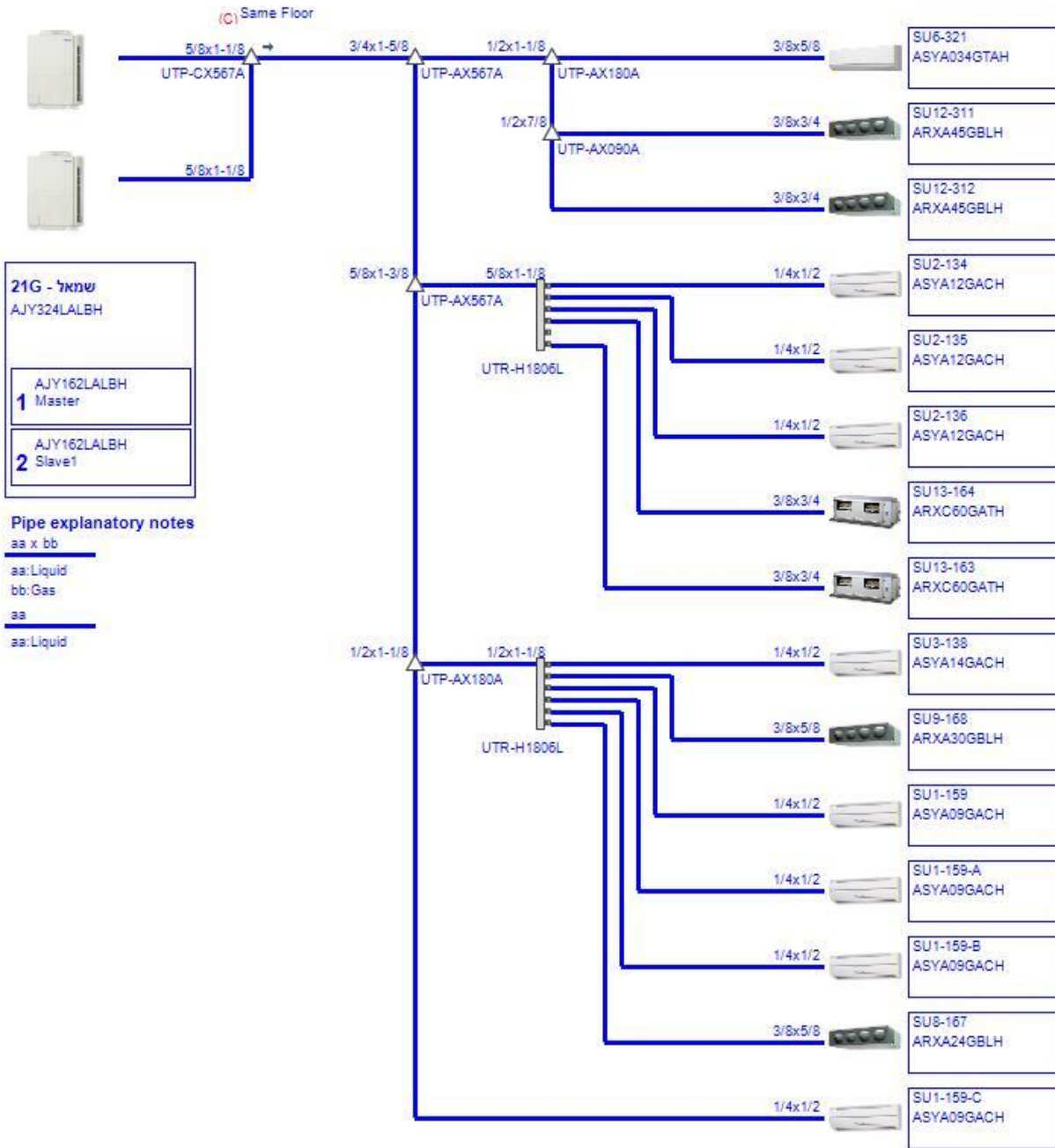
## 2.8.Piping 11C – שמאל (VRF system)



Piping needs reducer to connect I.U. with different pipe size.  
 Local purchased expander  
 C: 5/8 < 1/2

Refrig in OU (factory) R410A(kg)	35.30	Add Refrig (piping+extra OU) R410A(kg)	6.60	Total Refrig R410A(kg)	41.90
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## 2.9.Piping 21G – שמאל (VRF system)

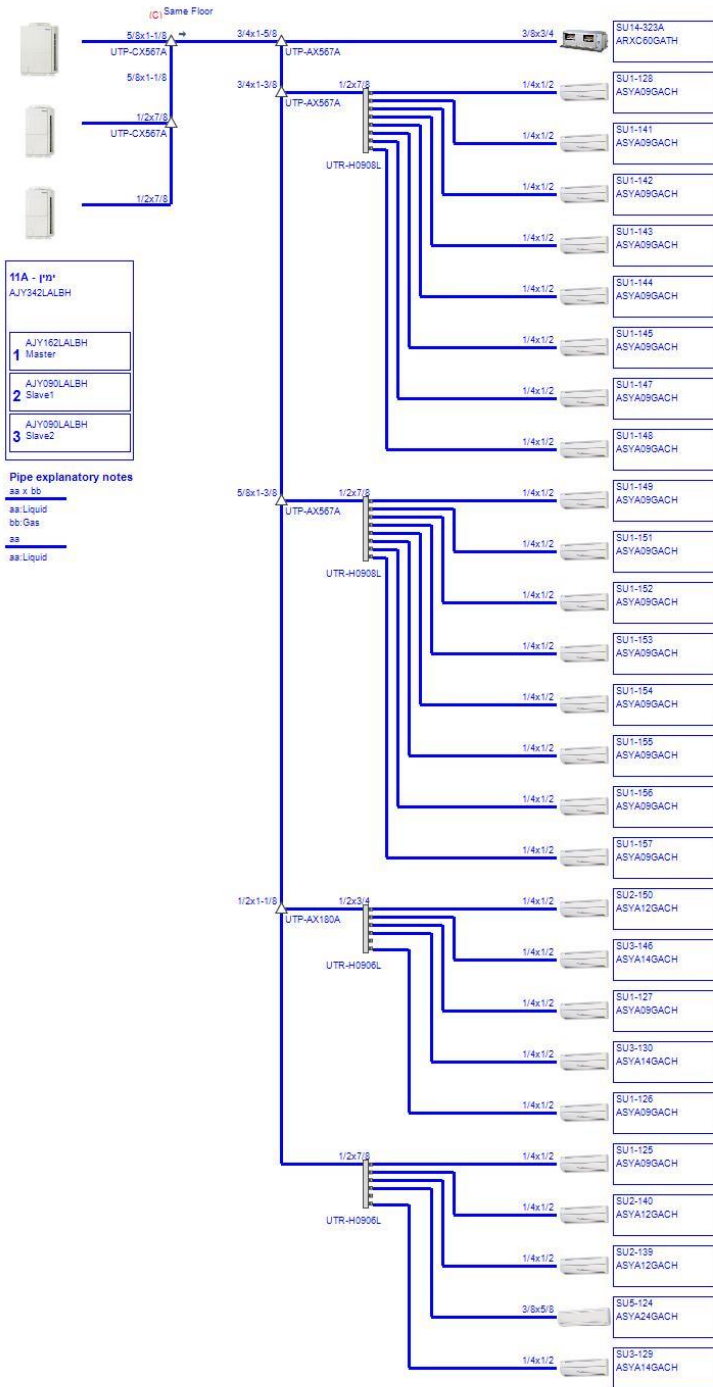


Piping needs reducer to connect I.U. with different pipe size.  
Local purchased expander  
C: 5/8<-1/2

Refrig in OU (factory) R410A(kg)	23.60	Add Refrig (piping+extra OU) R410A(kg)	6.60	Total Refrig R410A(kg)	30.20
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## 2.10.Piping 11A – ימין (VRF system)



Piping needs reducer to connect I.U. with different pipe size.  
Local purchased expander  
C:5/8<-1/2

Refrig in OU (factory) R410A(kg)	35.20	Add Refrig (piping+extra OU) R410A(kg)	3.30	Total Refrig R410A(kg)	38.50
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There are some differences between a calculated result and specification.