

#### Schlotterbeck Block 117 Preble Street Portland, Me

#### SUBMITTAL COVER SHEET

# Mechanical 23 00 00 Partial Drawings and Ductless Equipment

**Date: June 4, 2016** 

**Contractor:** 

Landry/French Construction 160 Pleasant Hill Road Scarborough, Maine 04074

**Architect:** 

Goduti/Thomas 44 Oak Street Portland, Me 04101

**Engineer:** 

Mechanical Systems Engineers Royal River Center, Unit 10B 10 Forest Falls Road Yarmouth, Maine 04096



#### Produced on 2/16/2016 with Xpress Selection V7.1.0 - database Central\_USA 9.8.8

Project nameSchlotterbeckReferenceSchlotterbeckClient nameGranite Corp

Revision 1

Selection parameters of the indoor units can be found under the chapter Indoor unit details Selection parameters of the outdoor units can be found under the chapter Outdoor unit details Only the data published in the data book are correct. This program uses close approximations of these data.

## 1. Material List

| Model        | Qty      | Description  |
|--------------|----------|--|
| REYQ144TTJU  | 4        | Heat recovery VRV-IV (208-230V)                        |
| REYQ168TTJU  | 1        | Heat recovery VRV-IV (208-230V)                        |
| REYQ192TTJU  | 1        | Heat recovery VRV-IV (208-230V)                        |
| BS12Q54TVJ   | 3        | Branch selector unit                                   |
| BS6Q54TVJ    | 2        | Branch selector unit                                   |
| BS8Q54TVJ    | 3        | Branch selector unit                                   |
| FXAQ07PVJU   | 22       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ09PVJU   | 19       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ12PVJU   | 19       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ18PVJU   | 22       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ24PVJU   | 6        | VRV A (P) - Wall Mounted Unit                          |
| KHRP25M72TU9 | 2        | Refnet branch piping kit                               |
| KHRP26A22T9  | 19       | Refnet branch piping kit                               |
| DCM601A71    | 1        | intelligent Touch Manager (iTM)                        |
| KHFP26A100C  | 3        | Branch Selector Closed Pipe Kit                        |
| BRC1E73      | 88       | new Navigation Remote Controller                       |
| DACA-CP1-1   | 88       | Small Condensate Pump (Local) - Up to 24mbh            |
| BHFP26P100U  | 1        | Condensing Unit Multi Connection Piping kit - VRVIV HR |
| DCM601A72    | 1        | i-Touch Manager DIII Plus Adapter                      |
| R410A        | 261.9lbs | Extra refrigerant charge                               |
| Piping 1/4"  | 4294.0ft |  |
| Piping 3/8"  | 1154.0ft |  |
| Piping ½"    | 4584.0ft |  |
| Piping %"    | 1326.0ft |  |
| Piping ¾"    | 32.0ft   |  |
| Piping 1/8"  | 390.0ft  |  |
| Piping 11/8" | 527.0ft  |  |

The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



## 2. Indoor Unit Details

### 2.1. Table of Abbreviations

Name Logical name of the device

FCU Device model name

Tmp C Indoor conditions in cooling (dry bulb temp. / wet bulb temp.)

Rq TC Required total cooling capacity

Max TC Available total cooling capacity

Rq SC Required sensible cooling capacity

Max SC Available sensible cooling capacity

Tevap Evaporating temperature of indoor unit coil

Tmp H Indoor temperature in heating Rq HC Required heating capacity

Max HC Available heating capacity

Airflow Supplied airflow

Sound Sound pressure low and high
PS Power supply (voltage and phases)

MCA Minimum Circuit Amps

Fuses Fuses

WxHxD WidthxHeightxDepth Wght Weight of the device



### 2.2. CDU1 - REYQ168TTJU

#### Capacity data at conditions and connection ratio (113%) as entered

| Name   | FCU        | Tmp C       | Rq TC  | Max TC | Rq SC | Max SC | Tevap | Tmp H | Rq HC  | Max HC | Airflow |
|--------|------------|-------------|--------|--------|-------|--------|-------|-------|--------|--------|---------|
|        |            | °F          | BTU/h  | BTU/h  | BTU/h | BTU/h  | °F    | °F    | BTU/h  | BTU/h  | cfm     |
| AH-L01 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-L02 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-L03 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-L04 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-L05 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-L06 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-L07 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-L08 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-L09 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-L10 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-L11 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-L12 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-L13 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-L14 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-L15 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-L16 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-L17 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| Σ      |            |             | 160100 |        |       |        |       |       | 205186 |        |         |

The sum of the required indoor unit capacities is 160100BTU/h for cooling and 205186BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 80050BTU/h (= -50%) and for heating of 102593BTU/h (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

| Name   | Sound | PS       | MCA | Fuses | WxHxD         | Wght |
|--------|-------|----------|-----|-------|---------------|------|
|        | dBA   |          | Α   |       | inch          | lbs  |
| AH-L01 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L02 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L03 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L04 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L05 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L06 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L07 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L08 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L09 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L10 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L11 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-L12 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L13 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L14 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-L15 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-L16 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-L17 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |





| DAIRIN   |  |
|--|--|
| Outdoor unit placed at the same level as the indoor units. |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



### 2.3. CDU2 - REYQ144TTJU

#### Capacity data at conditions and connection ratio (111%) as entered

| Name   | FCU        | Tmp C       | Rq TC  | Max TC | Rq SC | Max SC | Tevap | Tmp H | Rq HC  | Max HC | Airflow |
|--------|------------|-------------|--------|--------|-------|--------|-------|-------|--------|--------|---------|
|        |            | °F          | BTU/h  | BTU/h  | BTU/h | BTU/h  | °F    | °F    | BTU/h  | BTU/h  | cfm     |
| AH-101 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-102 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-103 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-104 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-105 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-106 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-107 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-108 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-109 | FXAQ24PVJU | 75.2 / 62.6 | n/a    | 20286  | n/a   | 15351  | 42.8  | 72.0  | n/a    | 25498  | 635     |
| AH-110 | FXAQ24PVJU | 75.2 / 62.6 | n/a    | 20286  | n/a   | 15351  | 42.8  | 72.0  | n/a    | 25498  | 635     |
| AH-111 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-112 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| Σ      |            |             | 135614 |        |       |        |       |       | 172788 |        |         |

The sum of the required indoor unit capacities is 135614BTU/h for cooling and 172788BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 67807BTU/h (= -50%) and for heating of 86394BTU/h (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

| Name   | Sound | PS       | MCA | Fuses | WxHxD         | Wght |
|--------|-------|----------|-----|-------|---------------|------|
|        | dBA   |          | Α   |       | inch          | lbs  |
| AH-101 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-102 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-103 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-104 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-105 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-106 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-107 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-108 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-109 | 41-47 | 230V 1ph | 0.6 | 15A   | 41.4x11.4x9.3 | 31   |
| AH-110 | 41-47 | 230V 1ph | 0.6 | 15A   | 41.4x11.4x9.3 | 31   |
| AH-111 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-112 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |



The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



### 2.4. CDU3 - REYQ144TTJU

#### Capacity data at conditions and connection ratio (127%) as entered

| Name   | FCU        | Tmp C       | Rq TC  | Max TC | Rq SC | Max SC | Tevap | Tmp H | Rq HC  | Max HC | Airflow |
|--------|------------|-------------|--------|--------|-------|--------|-------|-------|--------|--------|---------|
|        |            | °F          | BTU/h  | BTU/h  | BTU/h | BTU/h  | °F    | °F    | BTU/h  | BTU/h  | cfm     |
| AH-201 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-202 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-203 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-204 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-205 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-206 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-207 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-208 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-209 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-210 | FXAQ24PVJU | 75.2 / 62.6 | n/a    | 20286  | n/a   | 15351  | 42.8  | 72.0  | n/a    | 25498  | 635     |
| AH-211 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-212 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-213 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-214 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| Σ      |            |             | 154633 |        |       |        |       |       | 197686 |        |         |

The sum of the required indoor unit capacities is 154633BTU/h for cooling and 197686BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 77317BTU/h (= -50%) and for heating of 98843BTU/h (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

| Name   | Sound | PS       | MCA | Fuses | WxHxD         | Wght |
|--------|-------|----------|-----|-------|---------------|------|
|        | dBA   |          | Α   |       | inch          | lbs  |
| AH-201 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-202 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-203 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-204 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-205 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-206 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-207 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-208 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-209 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-210 | 41-47 | 230V 1ph | 0.6 | 15A   | 41.4x11.4x9.3 | 31   |
| AH-211 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-212 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-213 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-214 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |



The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



### 2.5. CDU4 - REYQ144TTJU

#### Capacity data at conditions and connection ratio (127%) as entered

| Name   | FCU        | Tmp C       | Rq TC  | Max TC | Rq SC | Max SC | Tevap | Tmp H | Rq HC  | Max HC | Airflow |
|--------|------------|-------------|--------|--------|-------|--------|-------|-------|--------|--------|---------|
|        |            | °F          | BTU/h  | BTU/h  | BTU/h | BTU/h  | °F    | °F    | BTU/h  | BTU/h  | cfm     |
| AH-301 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-302 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-303 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-304 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-305 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-306 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-307 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-308 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-309 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-310 | FXAQ24PVJU | 75.2 / 62.6 | n/a    | 20286  | n/a   | 15351  | 42.8  | 72.0  | n/a    | 25498  | 635     |
| AH-311 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-312 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-313 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-314 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| Σ      |            |             | 154633 |        |       |        |       |       | 197686 |        |         |

The sum of the required indoor unit capacities is 154633BTU/h for cooling and 197686BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 77317BTU/h (= -50%) and for heating of 98843BTU/h (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

| Name   | Sound | PS       | MCA | Fuses | WxHxD         | Wght |
|--------|-------|----------|-----|-------|---------------|------|
|        | dBA   |          | Α   |       | inch          | lbs  |
| AH-301 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-302 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-303 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-304 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-305 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-306 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-307 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-308 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-309 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-310 | 41-47 | 230V 1ph | 0.6 | 15A   | 41.4x11.4x9.3 | 31   |
| AH-311 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-312 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-313 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-314 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |



The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



### 2.6. CDU5 - REYQ144TTJU

#### Capacity data at conditions and connection ratio (123%) as entered

| Name   | FCU        | Tmp C       | Rq TC  | Max TC | Rq SC | Max SC | Tevap | Tmp H | Rq HC  | Max HC | Airflow |
|--------|------------|-------------|--------|--------|-------|--------|-------|-------|--------|--------|---------|
|        |            | °F          | BTU/h  | BTU/h  | BTU/h | BTU/h  | °F    | °F    | BTU/h  | BTU/h  | cfm     |
| AH-401 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-402 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-403 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-404 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-405 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-406 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-407 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-408 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-409 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-410 | FXAQ24PVJU | 75.2 / 62.6 | n/a    | 20286  | n/a   | 15351  | 42.8  | 72.0  | n/a    | 25498  | 635     |
| AH-411 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-412 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-413 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-414 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| Σ      |            |             | 149560 |        |       |        |       |       | 191187 |        |         |

The sum of the required indoor unit capacities is 149560BTU/h for cooling and 191187BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 74780BTU/h (= -50%) and for heating of 95593BTU/h (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

| Name   | Sound | PS       | MCA | Fuses | WxHxD         | Wght |
|--------|-------|----------|-----|-------|---------------|------|
|        | dBA   |          | Α   |       | inch          | lbs  |
| AH-401 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-402 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-403 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-404 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-405 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-406 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-407 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-408 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-409 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-410 | 41-47 | 230V 1ph | 0.6 | 15A   | 41.4x11.4x9.3 | 31   |
| AH-411 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-412 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-413 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-414 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |



The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



### 2.7. CDU6 - REYQ192TTJU

#### Capacity data at conditions and connection ratio (115%) as entered

| Name   | FCU        | Tmp C       | Rq TC  | Max TC | Rq SC | Max SC | Tevap | Tmp H | Rq HC  | Max HC | Airflow |
|--------|------------|-------------|--------|--------|-------|--------|-------|-------|--------|--------|---------|
|        |            | °F          | BTU/h  | BTU/h  | BTU/h | BTU/h  | °F    | °F    | BTU/h  | BTU/h  | cfm     |
| AH-501 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-502 | FXAQ24PVJU | 75.2 / 62.6 | n/a    | 20286  | n/a   | 15351  | 42.8  | 72.0  | n/a    | 25498  | 635     |
| AH-503 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-504 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-505 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-506 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-507 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-508 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-509 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-510 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-511 | FXAQ12PVJU | 75.2 / 62.6 | n/a    | 10140  | n/a   | 7810   | 42.8  | 72.0  | n/a    | 12999  | 290     |
| AH-512 | FXAQ09PVJU | 75.2 / 62.6 | n/a    | 8033   | n/a   | 6585   | 42.8  | 72.0  | n/a    | 10299  | 280     |
| AH-513 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-514 | FXAQ18PVJU | 75.2 / 62.6 | n/a    | 15213  | n/a   | 11765  | 42.8  | 72.0  | n/a    | 19499  | 500     |
| AH-515 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-516 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| AH-517 | FXAQ07PVJU | 75.2 / 62.6 | n/a    | 6326   | n/a   | 5606   | 42.8  | 72.0  | n/a    | 8100   | 260     |
| Σ      |            |             | 186312 |        |       |        |       |       | 238284 |        |         |

The sum of the required indoor unit capacities is 186312BTU/h for cooling and 238284BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 93156BTU/h (= -50%) and for heating of 119142BTU/h (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

| Name   | Sound | PS       | MCA | Fuses | WxHxD         | Wght |
|--------|-------|----------|-----|-------|---------------|------|
|        | dBA   |          | Α   |       | inch          | lbs  |
| AH-501 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-502 | 41-47 | 230V 1ph | 0.6 | 15A   | 41.4x11.4x9.3 | 31   |
| AH-503 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-504 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-505 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-506 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-507 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-508 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-509 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-510 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-511 | 31-38 | 230V 1ph | 0.4 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-512 | 31-37 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-513 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-514 | 37-43 | 230V 1ph | 0.4 | 15A   | 41.3x11.4x9.3 | 31   |
| AH-515 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-516 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |
| AH-517 | 29-35 | 230V 1ph | 0.3 | 15A   | 31.3x11.4x9.3 | 26   |





| Outdoor unit placed at the same level as the indoor units. |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |



### 3. Outdoor Unit Details

#### 3.1. Table of Abbreviations

Name Logical name of the device

Model Device model name

Tmp C Outdoor temperature in cooling CC Available cooling capacity

Rq CC Required cooling capacity

Tmp H Outdoor conditions in heating (dry bulb temp. / wet bulb temp.)
HC Available heating capacity (integrated heating capacity)

Rq HC Required heating capacity

Piping Largest distance from indoor unit to outdoor unit

Bse Refr Standard factory refrigerant charge (5m actual piping length)

excluding extra refrigerant charge

For calculation of extra refrigerant charge refer to the databook

Ex Refr Extra refrigerant charge

PS Power supply (voltage and phases)

MCA Minimum Circuit Amps
MFA Maximum Fuse Amps
Run Amps Running Amps
St Curr Starting current

Fuses Fuses

WxHxD WidthxHeightxDepth Wght Weight of the device

EER EER value at nominal conditions
IEER IEER value at nominal conditions

COP 47°F COP value at nominal conditions and ambient temperature of 47°F COP 17°F COP value at nominal conditions and ambient temperature of 17°F

SCHE (Simultaneous Cooling and Heating Efficiency) value at nominal conditions

The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



## 3.2. Outdoor Details

| Name | Model       | Comb | Tmp C | CC     | Rq CC | Tmp H       | НС     | Rq HC  | Piping |
|------|-------------|------|-------|--------|-------|-------------|--------|--------|--------|
|      |             | %    | °F    | BTU/h  | BTU/h | °F          | BTU/h  | BTU/h  | ft     |
| CDU1 | REYQ168TTJU | 113  | 88.0  | 149441 | 80050 | -0.0 / -0.0 | 107930 | 102593 | 289.4  |
| CDU2 | REYQ144TTJU | 111  | 88.0  | 128711 | 67807 | -0.0 / -0.0 | 101899 | 86394  | 240.4  |
| CDU3 | REYQ144TTJU | 127  | 88.0  | 142120 | 77317 | -0.0 / -0.0 | 102613 | 98843  | 256.5  |
| CDU4 | REYQ144TTJU | 127  | 88.0  | 142147 | 77317 | -0.0 / -0.0 | 102613 | 98843  | 256.4  |
| CDU5 | REYQ144TTJU | 123  | 88.0  | 139636 | 74780 | -0.0 / -0.0 | 102475 | 95593  | 251.4  |
| CDU6 | REYQ192TTJU | 115  | 88.0  | 174434 | 93156 | -0.0 / -0.0 | 151320 | 119142 | 263.4  |

| Name | Model       | Refrigerant |          |         |  |  |  |
|------|-------------|-------------|----------|---------|--|--|--|
|      |             | Туре        | Bse Refr | Ex Refr |  |  |  |
|      |             |             | lbs      | lbs     |  |  |  |
| CDU1 | REYQ168TTJU | R410A       | 25.8     | 52.9    |  |  |  |
| CDU2 | REYQ144TTJU | R410A       | 25.8     | 37.8    |  |  |  |
| CDU3 | REYQ144TTJU | R410A       | 25.8     | 43.0    |  |  |  |
| CDU4 | REYQ144TTJU | R410A       | 25.8     | 42.6    |  |  |  |
| CDU5 | REYQ144TTJU | R410A       | 25.8     | 42.2    |  |  |  |
| CDU6 | REYQ192TTJU | R410A       | 47.6     | 43.7    |  |  |  |

| Name  | Model         | PS       | MCA  | MFA | Run Amps | St Curr | Fuses | WxHxD          | Wght |
|-------|---------------|----------|------|-----|----------|---------|-------|----------------|------|
|       |               |          | Α    | Α   | Α        | Α       |       | inch           | lbs  |
| CDU1  | REYQ168TTJU   | 230V 3ph | 61.9 | 70  | 41.8     |         | 70A   | 48.9x66.7x30.2 | 780  |
| BSB9  | BS6Q54TVJ     | 230V 1ph | 0.6  | 15  |          |         |       | 22.8x11.7x18.9 | 68   |
| BSB10 | BS8Q54TVJ     | 230V 1ph | 0.8  | 15  |          |         |       | 22.8x11.7x18.9 | 73   |
| CDU2  | REYQ144TTJU   | 230V 3ph | 55   | 70  | 38.8     |         | 70A   | 48.9x66.7x30.2 | 780  |
| BSB3  | BS8Q54TVJ     | 230V 1ph | 0.8  | 15  |          |         |       | 22.8x11.7x18.9 | 73   |
| CDU3  | REYQ144TTJU   | 230V 3ph | 55   | 70  | 38.8     |         | 70A   | 48.9x66.7x30.2 | 780  |
| BSB4  | BS12Q54TVJ    | 230V 1ph | 1.2  | 15  |          |         |       | 32.3x11.7x18.9 | 106  |
| CDU4  | REYQ144TTJU   | 230V 3ph | 55   | 70  | 38.8     |         | 70A   | 48.9x66.7x30.2 | 780  |
| BSB5  | BS12Q54TVJ    | 230V 1ph | 1.2  | 15  |          |         |       | 32.3x11.7x18.9 | 106  |
| CDU5  | REYQ144TTJU   | 230V 3ph | 55   | 70  | 38.8     |         | 70A   | 48.9x66.7x30.2 | 780  |
| BSB6  | BS12Q54TVJ    | 230V 1ph | 1.2  | 15  |          |         |       | 32.3x11.7x18.9 | 106  |
| CDU6  | REYQ192TTJU   | 230V 3ph |      |     |          |         |       |                |      |
|       | * REYQ120TTJU |          | 43   | 50  | 30       |         | 50A   | 48.9x66.7x30.2 | 703  |
|       | * REYQ72TTJU  |          | 30.2 | 35  | 20.7     |         | 35A   | 36.7x66.7x30.2 | 507  |
| BSB7  | BS6Q54TVJ     | 230V 1ph | 0.6  | 15  |          |         |       | 22.8x11.7x18.9 | 68   |
| BSB8  | BS8Q54TVJ     | 230V 1ph | 0.8  | 15  |          |         |       | 22.8x11.7x18.9 | 73   |

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.

| Name | Ducted |      |          |          |      |      | Non-ducted |          |          |      |
|------|--------|------|----------|----------|------|------|------------|----------|----------|------|
|      | EER    | IEER | COP 47°F | COP 17°F | SCHE | EER  | IEER       | COP 47°F | COP 17°F | SCHE |
| CDU1 | 11.3   | 19.5 | 3.33     | 2.15     | 22.8 | 11.7 | 22         | 3.77     | 2.32     | 26.6 |
| CDU2 | 11.9   | 20.7 | 3.55     | 2.35     | 23.8 | 12.9 | 24.2       | 3.81     | 2.56     | 25.5 |
| CDU3 | 11.9   | 20.7 | 3.55     | 2.35     | 23.8 | 12.9 | 24.2       | 3.81     | 2.56     | 25.5 |
| CDU4 | 11.9   | 20.7 | 3.55     | 2.35     | 23.8 | 12.9 | 24.2       | 3.81     | 2.56     | 25.5 |
| CDU5 | 11.9   | 20.7 | 3.55     | 2.35     | 23.8 | 12.9 | 24.2       | 3.81     | 2.56     | 25.5 |
| CDU6 | 12.6   | 20.4 | 3.67     | 2.38     | 22.9 | 12.5 | 22.9       | 3.84     | 2.55     | 26.6 |

The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



#### 3.2.1. CDU1 - REYQ168TTJU

| Model        | Qty     | Description                                 |
|--------------|---------|---|
| REYQ168TTJU  | 1       | Heat recovery VRV-IV (208-230V)             |
| BS6Q54TVJ    | 1       | Branch selector unit                        |
| BS8Q54TVJ    | 1       | Branch selector unit                        |
| FXAQ07PVJU   | 5       | VRV A (P) - Wall Mounted Unit               |
| FXAQ09PVJU   | 4       | VRV A (P) - Wall Mounted Unit               |
| FXAQ12PVJU   | 5       | VRV A (P) - Wall Mounted Unit               |
| FXAQ18PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| KHRP25M72TU9 | 1       | Refnet branch piping kit                    |
| KHRP26A22T9  | 3       | Refnet branch piping kit                    |
| BRC1E73      | 17      | new Navigation Remote Controller            |
| DACA-CP1-1   | 17      | Small Condensate Pump (Local) - Up to 24mbh |
| R410A        | 52.9lbs | Extra refrigerant charge                    |
| Piping ¼"    | 953.0ft |   |
| Piping %"    | 138.0ft |   |
| Piping ½"    | 953.0ft |   |
| Piping %"    | 243.0ft |   |
| Piping ¾"    | 15.0ft  |   |
| Piping 1/8"  | 95.0ft  |   |
| Piping 11/8" | 105.0ft |   |

Standard factory refrigerant charge (5m actual piping length) = 25.8lbs

Extra refrigerant charge =  $(105.0 \text{ft}(\emptyset^{5}\%") \times 0.179 \text{kg/m} + 138.0 \text{ft}(\emptyset^{3}\%") \times 0.059 \text{kg/m} + 953.0 \text{ft}(\emptyset^{1}\%") \times 0.022 \text{kg/m}) \times 1.04 + A + B + C = 52.9 \text{lbs}$ 

A 113% 233.0ft = 6.6lbs

B 14HP = 10.8lbs

 $C = 1(BS6Q54TVJ) \times 0.4kg/m + 1(BS8Q54TVJ) \times 0.5kg/m = 2.0lbs$ 

#### **Piping Limitations**

| Maximum total length  | 3280.8ft |
|---|----------|
| Maximum longest actual length   | 541.3ft  |
| Maximum longest equivalent length   | 623.4ft  |
| Maximum main pipe length (size up of main pipe required if longer)                            | 295.3ft  |
| Maximum length first branch to last branch (size up of intermediate pipes required if longer) | 131.2ft  |
| Maximum length first branch to indoor units   | 295.3ft  |
| Maximum length of indoor units to nearest branch  | 131.2ft  |
| Maximum length difference between longest and shortest distance to indoor units               | 131.2ft  |
| Maximum height difference between indoor units  | 98.4ft   |
| Connection ratio range  | 50-200%  |

#### **Pipe Capacities**

| Maximum Connection Index | Diameters                        |
|--------------------------|----------------------------------|
| 53.9                     | 3/8" <b>x</b> 5/8" <b>x</b> 1/2" |
| 71.9                     | 3/8"×3/4"×5/8"                   |
| 110.9                    | 3/8"×7/8"×3/4"                   |
| 161.9                    | ½"×1½"×¾"                        |
| > 161.9                  | 5/s"×11/s"×7/s"                  |
| Main pipe size up        | 3/4"×11/6"×7/6"                  |



#### 3.2.2. CDU2 - REYQ144TTJU

| Model        | Qty     | Description                                 |
|--------------|---------|---|
| REYQ144TTJU  | 1       | Heat recovery VRV-IV (208-230V)             |
| BS8Q54TVJ    | 1       | Branch selector unit                        |
| FXAQ07PVJU   | 4       | VRV A (P) - Wall Mounted Unit               |
| FXAQ09PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ18PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ24PVJU   | 2       | VRV A (P) - Wall Mounted Unit               |
| KHRP26A22T9  | 4       | Refnet branch piping kit                    |
| BRC1E73      | 12      | new Navigation Remote Controller            |
| DACA-CP1-1   | 12      | Small Condensate Pump (Local) - Up to 24mbh |
| R410A        | 37.7lbs | Extra refrigerant charge                    |
| Piping ¼"    | 287.0ft |   |
| Piping %"    | 229.0ft |   |
| Piping ½"    | 367.0ft |   |
| Piping %"    | 229.0ft |   |
| Piping ¾"    | 80.0ft  |   |
| Piping 11/8" | 80.0ft  |   |

Standard factory refrigerant charge (5m actual piping length) = 25.8lbs Extra refrigerant charge =  $(80.0 \text{ft}(\emptyset^{1/2}") \times 0.12 \text{kg/m} + 229.0 \text{ft}(\emptyset^{3/2}") \times 0.059 \text{kg/m} + 287.0 \text{ft}(\emptyset^{1/4}") \times 0.022 \text{kg/m}) \times 1.04 + A + B + C = 37.7 \text{lbs}$ A 111% 185.0ft = 5.5lbs B 12HP = 10.6lbs C = 1(BS8Q54TVJ)  $\times$  0.5kg/m = 1.1lbs

#### **Piping Limitations**

| Maximum total length  | 3280.8ft |
|---|----------|
| Maximum longest actual length   | 541.3ft  |
| Maximum longest equivalent length   | 623.4ft  |
| Maximum main pipe length (size up of main pipe required if longer)                            | 295.3ft  |
| Maximum length first branch to last branch (size up of intermediate pipes required if longer) | 131.2ft  |
| Maximum length first branch to indoor units   | 295.3ft  |
| Maximum length of indoor units to nearest branch  | 131.2ft  |
| Maximum length difference between longest and shortest distance to indoor units               | 131.2ft  |
| Maximum height difference between indoor units  | 98.4ft   |
| Connection ratio range  | 50-200%  |

#### **Pipe Capacities**

| •                        |                  |
|--------------------------|------------------|
| Maximum Connection Index | Diameters        |
| 53.9                     | 3/8" ×5/8" ×1/2" |
| 71.9                     | 3/8"×3/4"×5/8"   |
| 110.9                    | 3/8"×7/8"×3/4"   |
| > 110.9                  | ½"×1½"×½"        |
| Main pipe size up        | 5/8"×11/8"×7/8"  |



#### 3.2.3. CDU3 - REYQ144TTJU

| Model        | Qty     | Description                                 |
|--------------|---------|---|
| REYQ144TTJU  | 1       | Heat recovery VRV-IV (208-230V)             |
| BS12Q54TVJ   | 1       | Branch selector unit                        |
| FXAQ07PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ09PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ12PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ18PVJU   | 4       | VRV A (P) - Wall Mounted Unit               |
| FXAQ24PVJU   | 1       | VRV A (P) - Wall Mounted Unit               |
| KHRP26A22T9  | 3       | Refnet branch piping kit                    |
| KHFP26A100C  | 1       | Branch Selector Closed Pipe Kit             |
| BRC1E73      | 14      | new Navigation Remote Controller            |
| DACA-CP1-1   | 14      | Small Condensate Pump (Local) - Up to 24mbh |
| R410A        | 43.0lbs | Extra refrigerant charge                    |
| Piping ¼"    | 738.0ft |   |
| Piping %"    | 182.0ft |   |
| Piping ½"    | 813.0ft |   |
| Piping %"    | 182.0ft |   |
| Piping %"    | 75.0ft  |   |
| Piping 11/8" | 75.0ft  |   |

Standard factory refrigerant charge (5m actual piping length) = 25.8lbs

Extra refrigerant charge =  $(75.0 \text{ft}(@1/2") \times 0.12 \text{kg/m} + 182.0 \text{ft}(@3/8") \times 0.059 \text{kg/m} + 738.0 \text{ft}(@1/4") \times 0.022 \text{kg/m}) \times 1.04$ 

+ A + B + C = 43.0 lbs

A 127% 205.0ft = 5.5lbs B 12HP = 10.6lbs

D 12HF = 10.0IDS

 $C = 1(BS12Q54TVJ) \times 0.8kg/m = 1.8lbs$ 

#### **Piping Limitations**

| Maximum total length  | 3280.8ft |
|---|----------|
| Maximum longest actual length   | 541.3ft  |
| Maximum longest equivalent length   | 623.4ft  |
| Maximum main pipe length (size up of main pipe required if longer)                            | 295.3ft  |
| Maximum length first branch to last branch (size up of intermediate pipes required if longer) | 131.2ft  |
| Maximum length first branch to indoor units   | 295.3ft  |
| Maximum length of indoor units to nearest branch  | 131.2ft  |
| Maximum length difference between longest and shortest distance to indoor units               | 131.2ft  |
| Maximum height difference between indoor units  | 98.4ft   |
| Connection ratio range  | 50-200%  |

#### **Pipe Capacities**

| •                        |                                  |
|--------------------------|----------------------------------|
| Maximum Connection Index | Diameters                        |
| 53.9                     | 3/8" <b>x</b> 5/8" <b>x</b> 1/2" |
| 71.9                     | 3/8"×3/4"×5/8"                   |
| 110.9                    | 3/8"×7/8"×3/4"                   |
| > 110.9                  | ½"×1½"×½"                        |
| Main pipe size up        | 5/8"×11/8"×7/8"                  |



#### 3.2.4. CDU4 - REYQ144TTJU

| Model        | Qty     | Description                                 |
|--------------|---------|---|
| REYQ144TTJU  | 1       | Heat recovery VRV-IV (208-230V)             |
| BS12Q54TVJ   | 1       | Branch selector unit                        |
| FXAQ07PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ09PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ12PVJU   | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ18PVJU   | 4       | VRV A (P) - Wall Mounted Unit               |
| FXAQ24PVJU   | 1       | VRV A (P) - Wall Mounted Unit               |
| KHRP26A22T9  | 3       | Refnet branch piping kit                    |
| KHFP26A100C  | 1       | Branch Selector Closed Pipe Kit             |
| BRC1E73      | 14      | new Navigation Remote Controller            |
| DACA-CP1-1   | 14      | Small Condensate Pump (Local) - Up to 24mbh |
| R410A        | 42.5lbs | Extra refrigerant charge                    |
| Piping ¼"    | 738.0ft |   |
| Piping %"    | 182.0ft |   |
| Piping ½"    | 808.0ft |   |
| Piping %"    | 182.0ft |   |
| Piping %"    | 70.0ft  |   |
| Piping 11/8" | 70.0ft  |   |

Standard factory refrigerant charge (5m actual piping length) = 25.8lbs

Extra refrigerant charge =  $(70.0 \text{ft}(@1/2") \times 0.12 \text{kg/m} + 182.0 \text{ft}(@3/8") \times 0.059 \text{kg/m} + 738.0 \text{ft}(@1/4") \times 0.022 \text{kg/m}) \times 1.04$ 

+ A + B + C = 42.5 lbs

A 127% 200.0ft = 5.5lbs

B 12HP = 10.6lbs

 $C = 1(BS12Q54TVJ) \times 0.8kg/m = 1.8lbs$ 

#### **Piping Limitations**

| Maximum total length  | 3280.8ft |
|---|----------|
| Maximum longest actual length   | 541.3ft  |
| Maximum longest equivalent length   | 623.4ft  |
| Maximum main pipe length (size up of main pipe required if longer)                            | 295.3ft  |
| Maximum length first branch to last branch (size up of intermediate pipes required if longer) | 131.2ft  |
| Maximum length first branch to indoor units   | 295.3ft  |
| Maximum length of indoor units to nearest branch  | 131.2ft  |
| Maximum length difference between longest and shortest distance to indoor units               | 131.2ft  |
| Maximum height difference between indoor units  | 98.4ft   |
| Connection ratio range  | 50-200%  |

#### **Pipe Capacities**

| •                        |                                  |
|--------------------------|----------------------------------|
| Maximum Connection Index | Diameters                        |
| 53.9                     | 3/8" <b>x</b> 5/8" <b>x</b> 1/2" |
| 71.9                     | 3/8"×3/4"×5/8"                   |
| 110.9                    | 3/8"×7/8"×3/4"                   |
| > 110.9                  | ½"×1½"×½"                        |
| Main pipe size up        | 5/8"×11/8"×7/8"                  |



#### 3.2.5. CDU5 - REYQ144TTJU

| Model                                | Qty     | Description                                 |
|--------------------------------------|---------|---|
| REYQ144TTJU                          | 1       | Heat recovery VRV-IV (208-230V)             |
| BS12Q54TVJ                           | 1       | Branch selector unit                        |
| FXAQ07PVJU                           | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ09PVJU                           | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ12PVJU                           | 4       | VRV A (P) - Wall Mounted Unit               |
| FXAQ18PVJU                           | 3       | VRV A (P) - Wall Mounted Unit               |
| FXAQ24PVJU                           | 1       | VRV A (P) - Wall Mounted Unit               |
| KHRP26A22T9                          | 3       | Refnet branch piping kit                    |
| KHFP26A100C                          | 1       | Branch Selector Closed Pipe Kit             |
| BRC1E73                              | 14      | new Navigation Remote Controller            |
| DACA-CP1-1                           | 14      | Small Condensate Pump (Local) - Up to 24mbh |
| R410A                                | 42.1lbs | Extra refrigerant charge                    |
| Piping ¼"                            | 739.0ft |   |
| Piping %"                            | 182.0ft |   |
| Piping ½"                            | 804.0ft |   |
| Piping %"                            | 182.0ft |   |
| Piping <sup>7</sup> ⁄ <sub>8</sub> " | 65.0ft  |   |
| Piping 11/8"                         | 65.0ft  |   |

Standard factory refrigerant charge (5m actual piping length) = 25.8lbs

Extra refrigerant charge =  $(65.0 \text{ft}(@1/2") \times 0.12 \text{kg/m} + 182.0 \text{ft}(@3/8") \times 0.059 \text{kg/m} + 739.0 \text{ft}(@1/4") \times 0.022 \text{kg/m}) \times 1.04$ 

+ A + B + C = 42.1 lbs

A 123% 195.0 ft = 5.5 lbs

B 12HP = 10.6lbs

 $C = 1(BS12Q54TVJ) \times 0.8kg/m = 1.8lbs$ 

#### **Piping Limitations**

| Maximum total length  | 3280.8ft |
|---|----------|
| Maximum longest actual length   | 541.3ft  |
| Maximum longest equivalent length   | 623.4ft  |
| Maximum main pipe length (size up of main pipe required if longer)                            | 295.3ft  |
| Maximum length first branch to last branch (size up of intermediate pipes required if longer) | 131.2ft  |
| Maximum length first branch to indoor units   | 295.3ft  |
| Maximum length of indoor units to nearest branch  | 131.2ft  |
| Maximum length difference between longest and shortest distance to indoor units               | 131.2ft  |
| Maximum height difference between indoor units  | 98.4ft   |
| Connection ratio range  | 50-200%  |

#### **Pipe Capacities**

| Maximum Connection Index | Diameters                             |
|--------------------------|---------------------------------------|
| 53.9                     | 3/8"×5/8"×1/2"                        |
| 71.9                     | 3/8"×3/4"×5/8"                        |
| 110.9                    | 3/8"×7/8"×3/4"                        |
| > 110.9                  | ½"×1½"× <sup>7</sup> / <sub>8</sub> " |
| Main pipe size up        | 5/8"×11/8"×7/8"                       |



#### 3.2.6. CDU6 - REYQ192TTJU

| Model        | Qty     | Description  |
|--------------|---------|--|
| REYQ192TTJU  | 1       | Heat recovery VRV-IV (208-230V)                        |
| BS6Q54TVJ    | 1       | Branch selector unit                                   |
| BS8Q54TVJ    | 1       | Branch selector unit                                   |
| FXAQ07PVJU   | 4       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ09PVJU   | 3       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ12PVJU   | 4       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ18PVJU   | 5       | VRV A (P) - Wall Mounted Unit                          |
| FXAQ24PVJU   | 1       | VRV A (P) - Wall Mounted Unit                          |
| KHRP25M72TU9 | 1       | Refnet branch piping kit                               |
| KHRP26A22T9  | 3       | Refnet branch piping kit                               |
| BRC1E73      | 17      | new Navigation Remote Controller                       |
| DACA-CP1-1   | 17      | Small Condensate Pump (Local) - Up to 24mbh            |
| BHFP26P100U  | 1       | Condensing Unit Multi Connection Piping kit - VRVIV HR |
| R410A        | 43.7lbs | Extra refrigerant charge                               |
| Piping 1/4"  | 839.0ft |  |
| Piping %"    | 241.0ft |  |
| Piping ½"    | 839.0ft |  |
| Piping %"    | 308.0ft |  |
| Piping ¾"    | 17.0ft  |  |
| Piping 1/8"  | 5.0ft   |  |
| Piping 11/8" | 132.0ft |  |

Standard factory refrigerant charge (5m actual piping length) = 47.6lbs Extra refrigerant charge =  $(72.0 \text{ft}(\emptyset\%") \times 0.179 \text{kg/m} + 241.0 \text{ft}(\emptyset\%") \times 0.059 \text{kg/m} + 839.0 \text{ft}(\emptyset1\%") \times 0.022 \text{kg/m}) \times 0.022 \text{kg/m}) \times 0.04 \text{kg/m} + 839.0 \text{ft}(\emptyset1\%") \times 0.04 \text{kg/m} + 839.0 \text{kg/m} +$ 1.04 + A + B + C = 43.7lbs A 115% 202.0ft = 6.6lbs

B 16HP = 3.3lbs

 $C = 1(BS6Q54TVJ) \times 0.4kg/m + 1(BS8Q54TVJ) \times 0.5kg/m = 2.0lbs$ 

#### **Piping Limitations**

| Maximum total length  | 3280.8ft |
|---|----------|
| Maximum longest actual length   | 541.3ft  |
| Maximum longest equivalent length   | 623.4ft  |
| Maximum main pipe length (size up of main pipe required if longer)                            | 295.3ft  |
| Maximum length first branch to last branch (size up of intermediate pipes required if longer) | 131.2ft  |
| Maximum length first branch to indoor units   | 295.3ft  |
| Maximum length of indoor units to nearest branch  | 131.2ft  |
| Maximum length difference between longest and shortest distance to indoor units               | 131.2ft  |
| Maximum height difference between indoor units  | 98.4ft   |
| Connection ratio range  | 50-200%  |

#### **Pipe Capacities**

| Maximum Connection Index | Diameters      |
|--------------------------|----------------|
| 53.9                     | 3/8"×5/8"×1/2" |
| 71.9                     | 3/8"×3/4"×5/8" |
| 110.9                    | 3/8"×7/8"×3/4" |
| 161.9                    | ½"x1½"x¾"      |



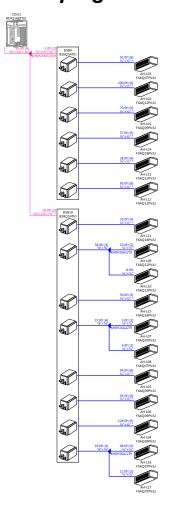
| Maximum Connection Index | Diameters        |
|--------------------------|------------------|
| > 161.9                  | %"×1½"×1½"       |
| Main pipe size up        | 3/4"×11/8"×11/8" |



## 4. Piping Diagrams

Pipes marked with \* in the diagrams must be connected to the device with a reducing joint.

## 4.1. Piping CDU1



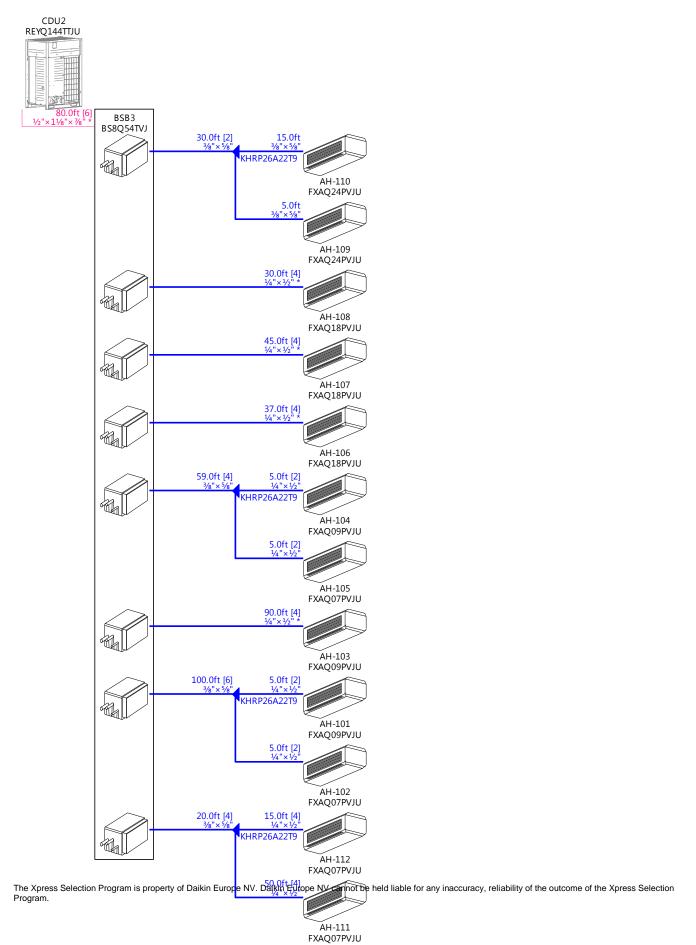
The actual length (138.0ft) from the first branch to AH-L04 exceeds 131.2ft. The intermediate pipes are sized up

The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



# 4.2. Piping CDU2



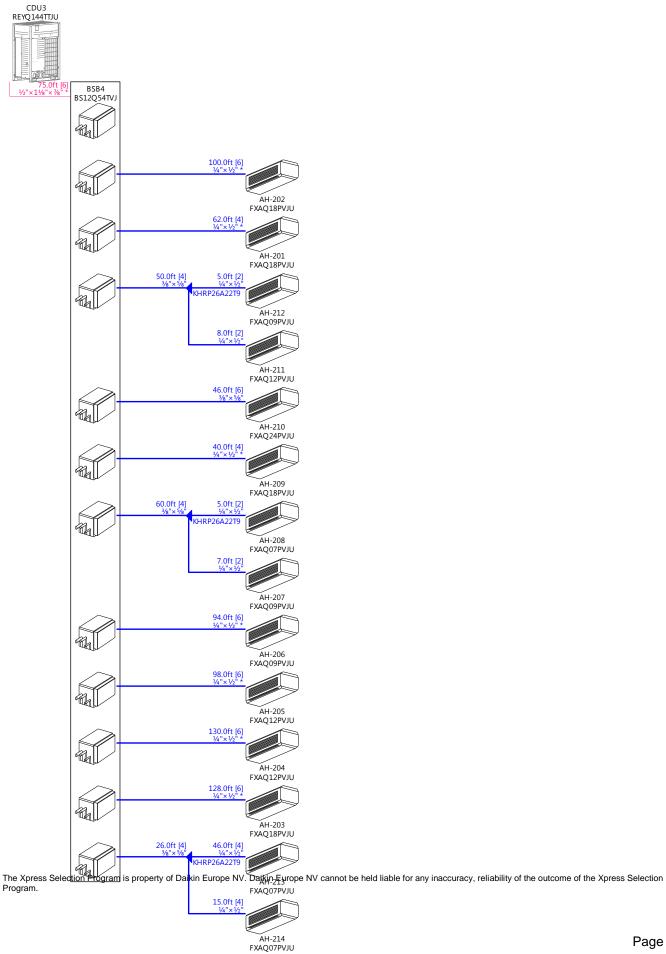






# 4.3. Piping CDU3



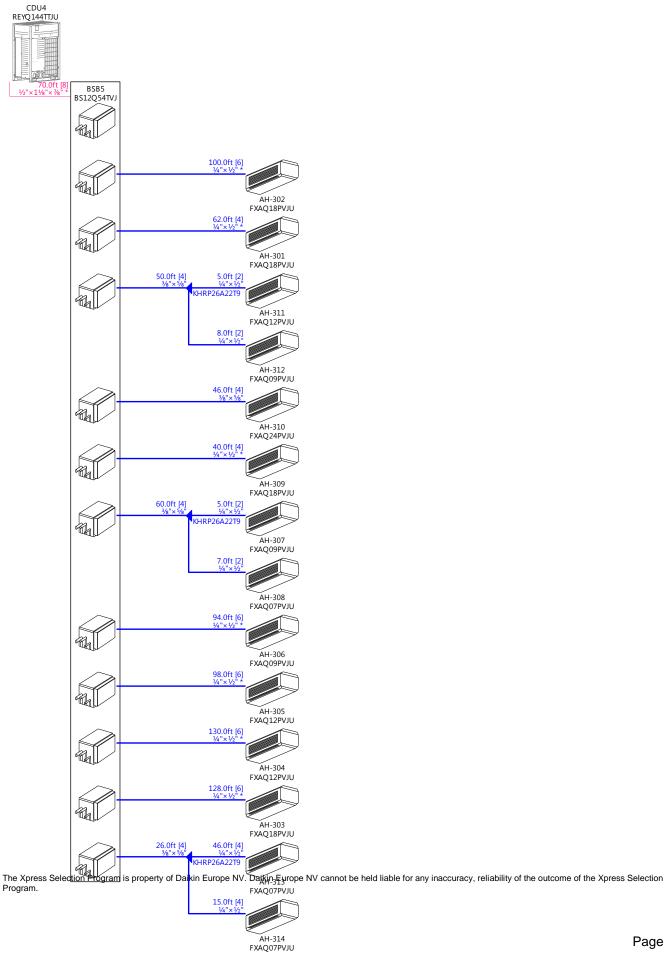






# 4.4. Piping CDU4





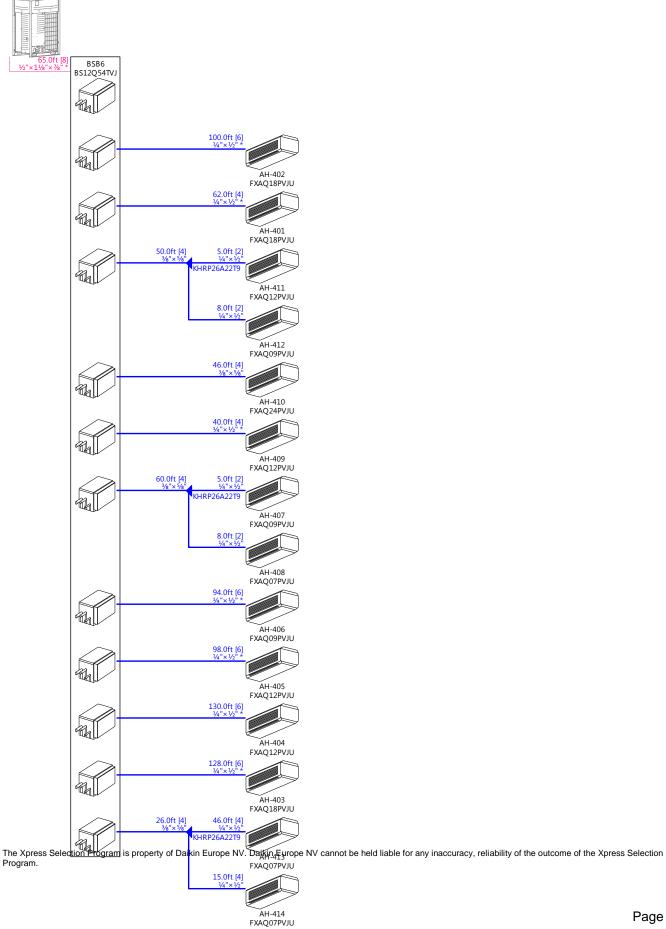




# 4.5. Piping CDU5



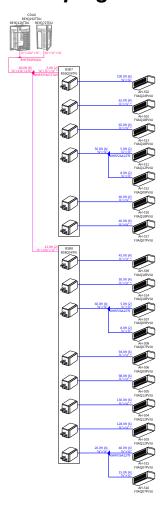
CDU5 REYQ144TTJU







## 4.6. Piping CDU6



The actual length (140.0ft) from the first branch to AH-503 exceeds 131.2ft. The intermediate pipes are sized up The actual length (142.0ft) from the first branch to AH-504 exceeds 131.2ft. The intermediate pipes are sized up

The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



# 5. Wiring Diagrams

P1P2 = Please select the cable type and size in accordance with the databook.

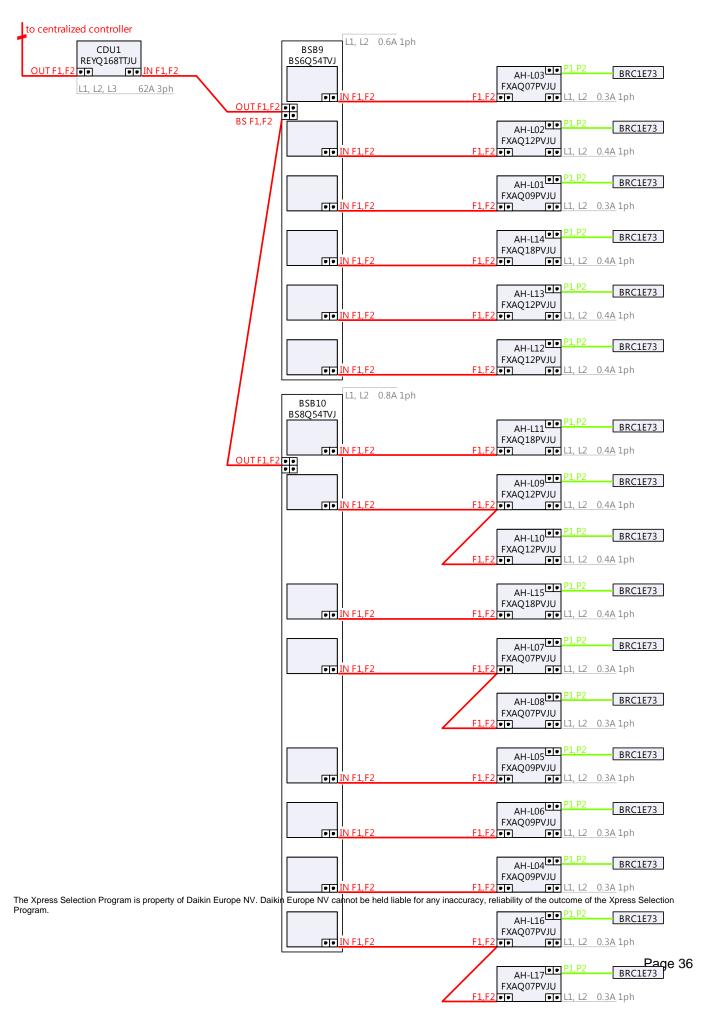
F1F2 = Please select the cable type and size in accordance with the databook.

The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



# 5.1. Wiring CDU1

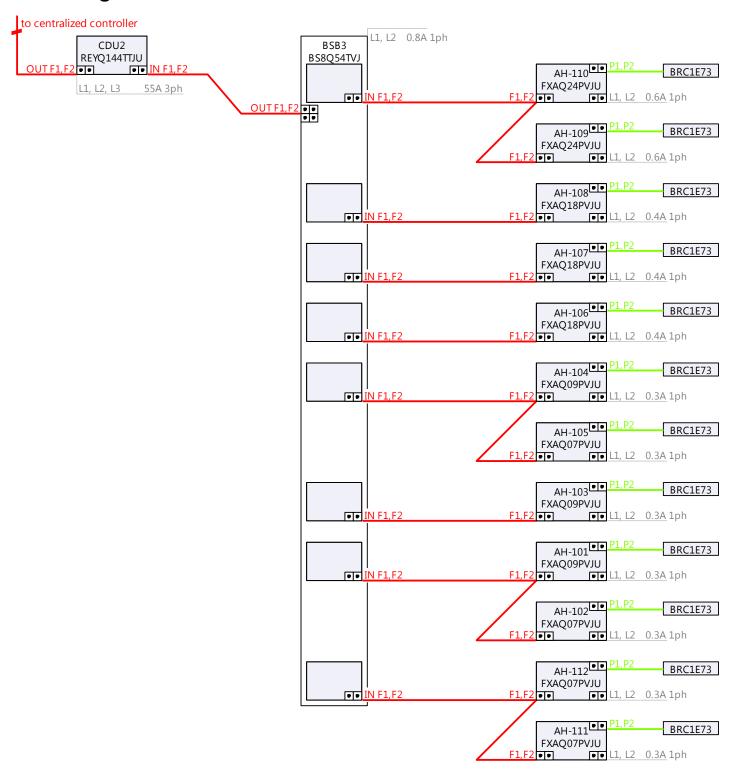








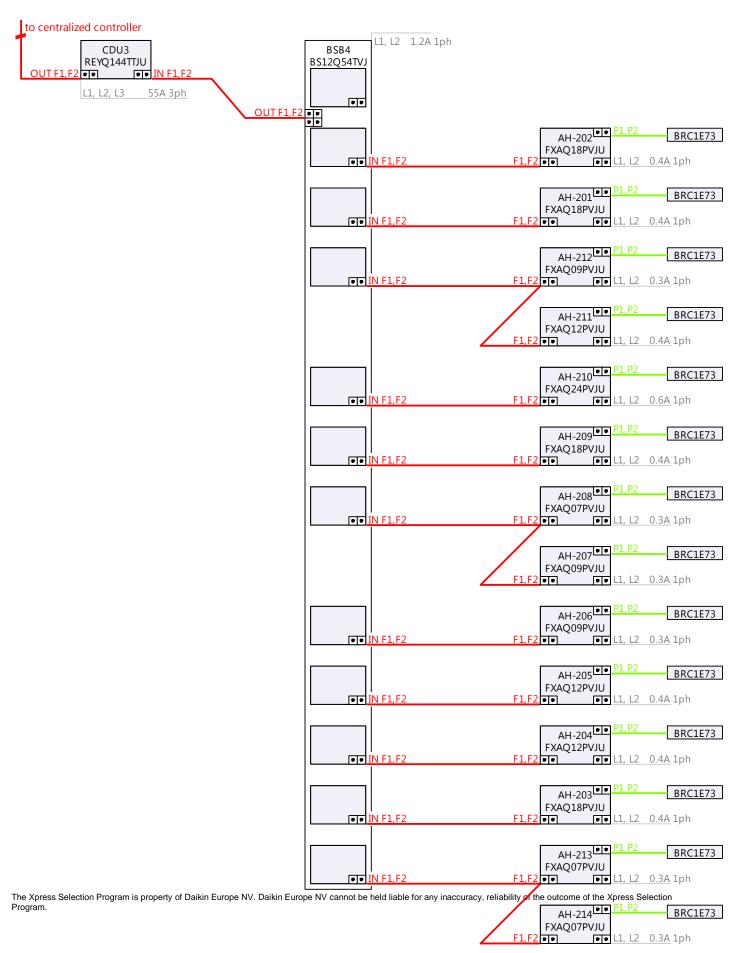
### 5.2. Wiring CDU2





## 5.3. Wiring CDU3



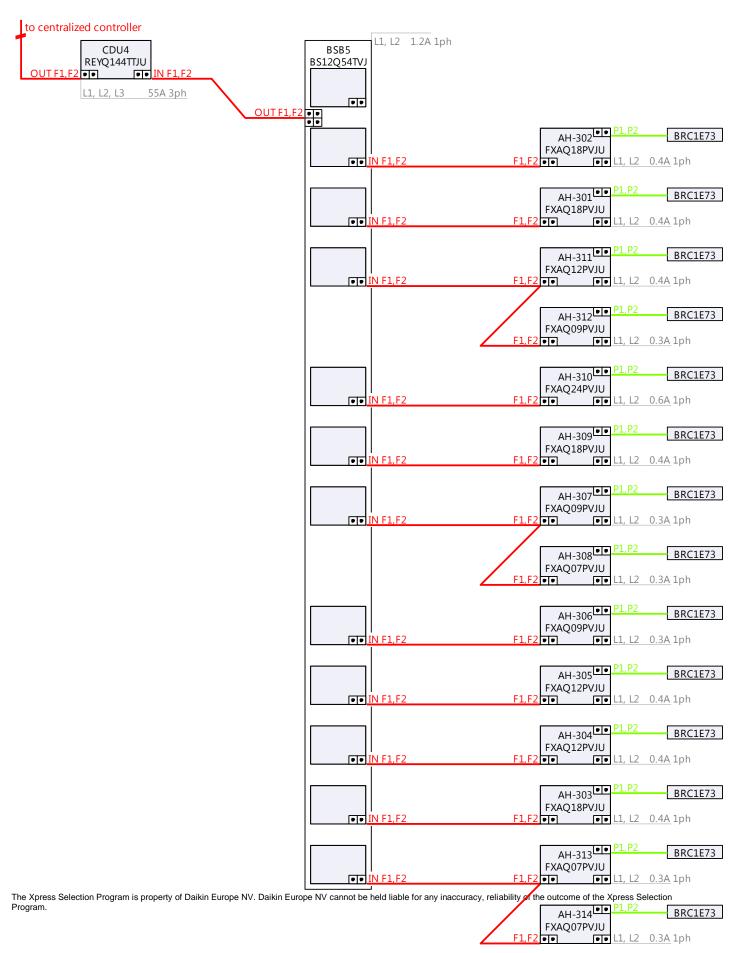






## 5.4. Wiring CDU4



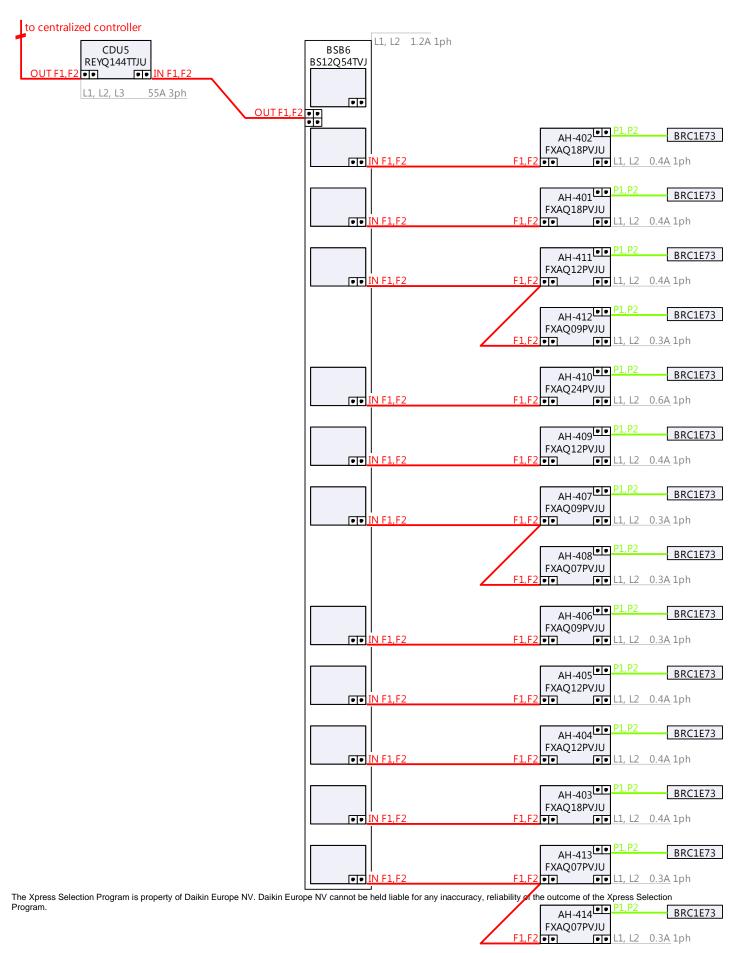






## 5.5. Wiring CDU5



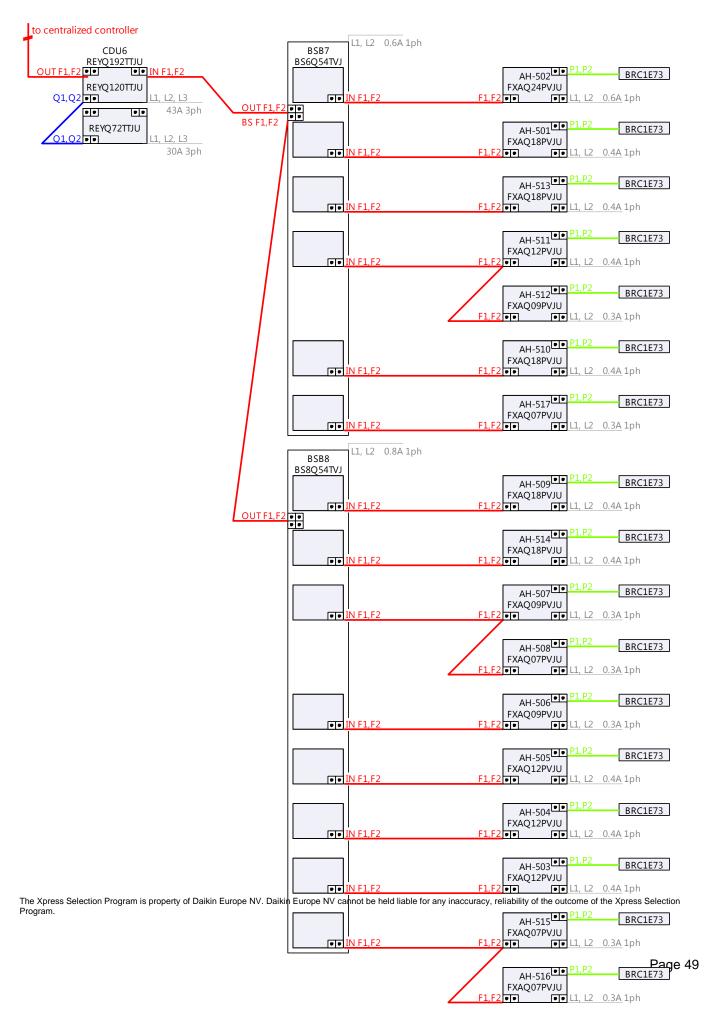






## 5.6. Wiring CDU6



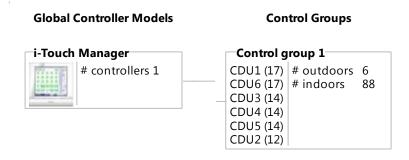






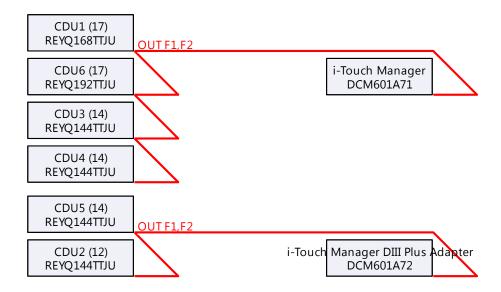
## 6. Centralized Controllers

## 6.1. Concept





## 6.2. Control group 1



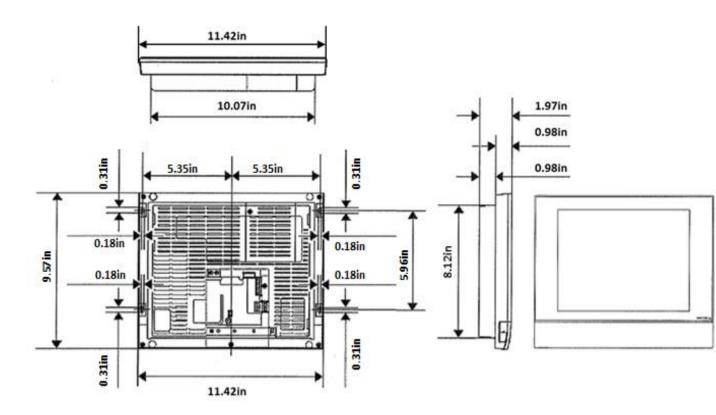
The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



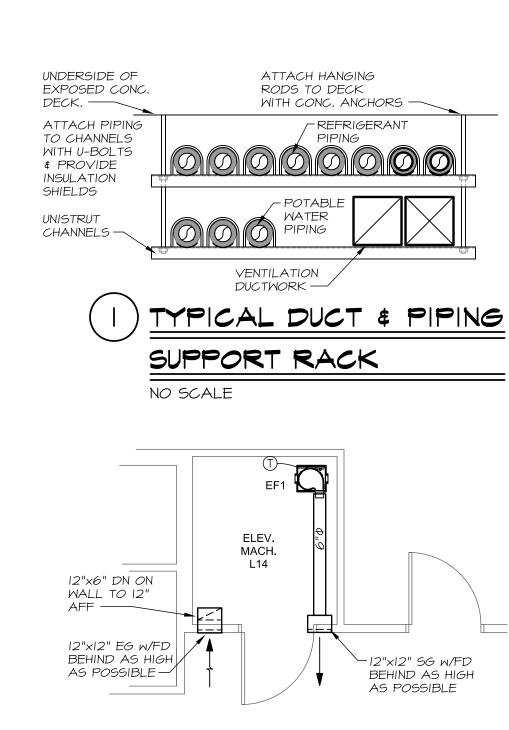
## 6.3. Dimensional Drawings

#### i-Touch Manager DCM601A71

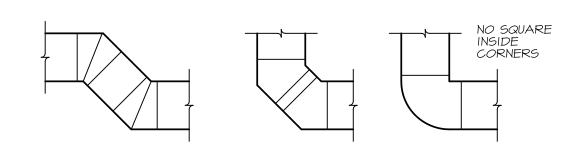
## DCM601A71



The Xpress Selection Program is property of Daikin Europe NV. Daikin Europe NV cannot be held liable for any inaccuracy, reliability of the outcome of the Xpress Selection Program.



# 2 ELEVATOR MACH. ROOM SCALE: 1/4" = 1'-0"

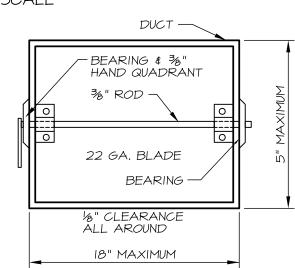


THESE TYPES OF FITTINGS
PROHIBITED UNLESS
SPECIFICALLY INDICATED OTHERWISE

ELBOWS TO BE SMOOTH,
LONG RADIUS ONLY
SEGMENTED ELBOWS ARE
PROHIBITED

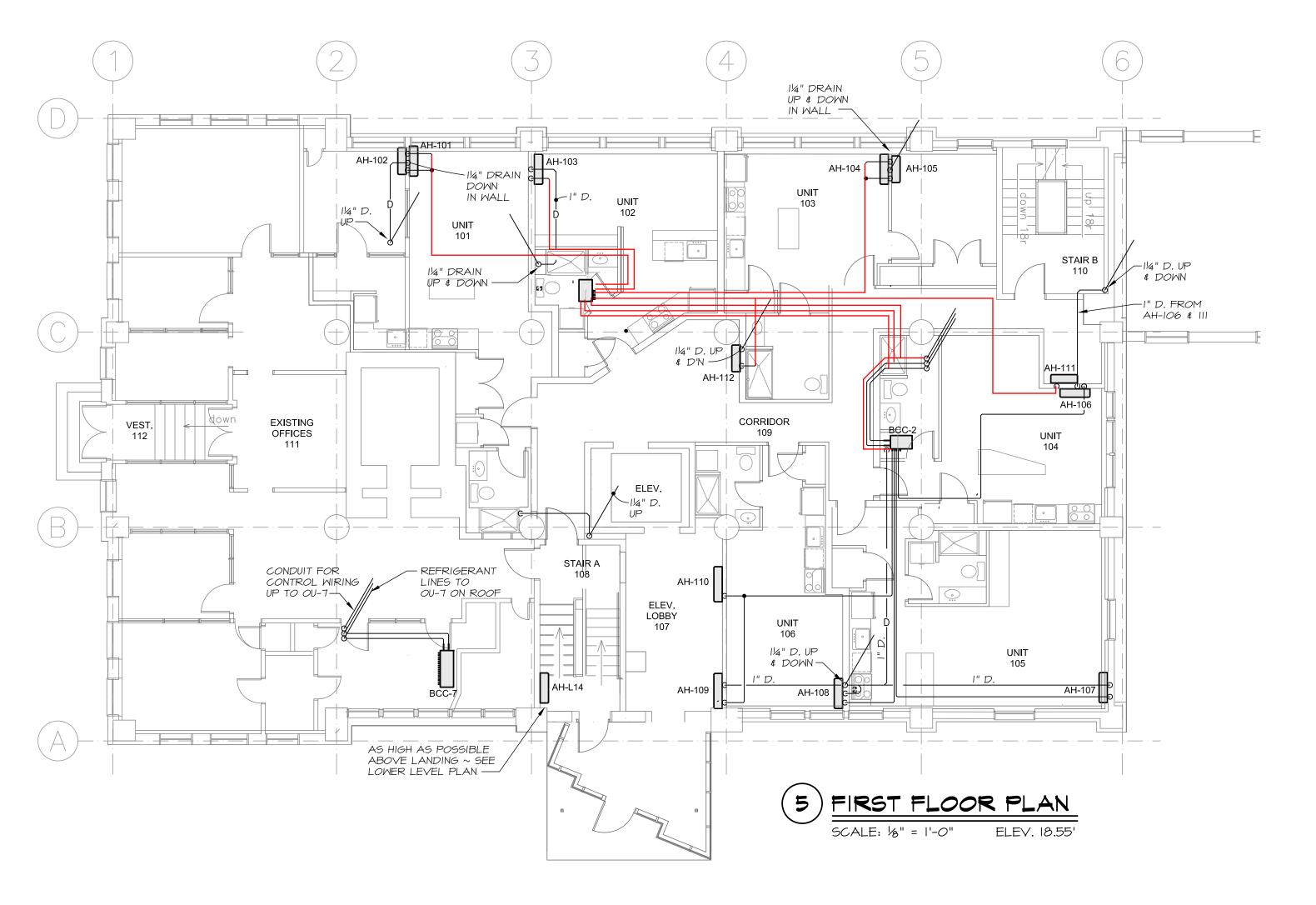
UNACCEPTABLE DUCT FITTINGS

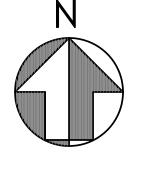
NO SCALE



4 SHOP FABRICATED
MANUAL DAMPER

NO SCALE





project name

## Schlotterbeck Block

117 Preble Street Portland, Maine

## Schlotterbeck Block LLC

goduti/thomas\_architects

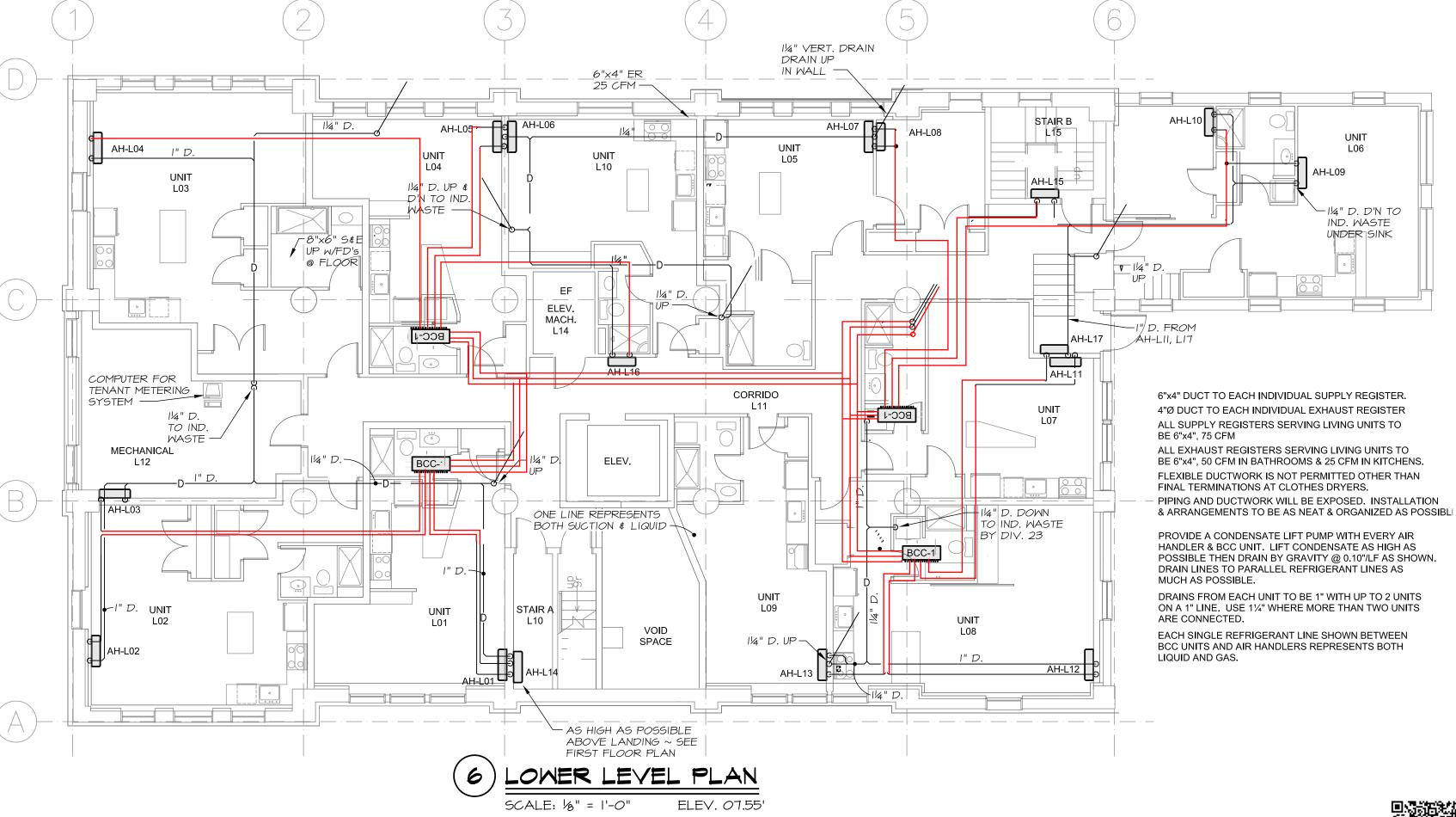
44 oak st.

portland, maine 04101

ph. 207-775-3184

fax 207-774-0486





0' 2' 4' 6' 8'

(207) 846-1441 FACEBOOK: MECHANICAL SYSTEMS ENGINEERS © COPYRIGHT 2015 date March 15, 2016

Revise Unit L06 3.8.2016

Add Unit L10 3.8.2016

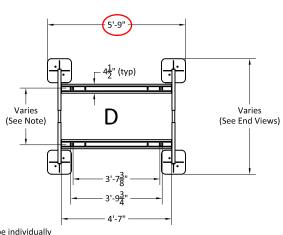
sheet title

revisions

Lower Level and 1st Floor Mechanical Plans sheet title line 3

scale
Noted
drawn by
R.E.M.
project number
scholtterbeck
sheet number

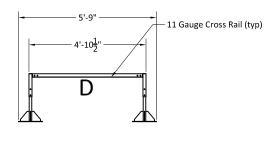
M1

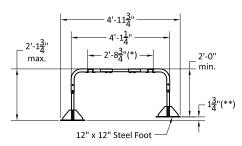


Note - Cross Rails may be individually rotated 180° to increasing range of adjustability of mounting holes.

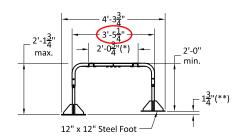
#### Plan View

Side View





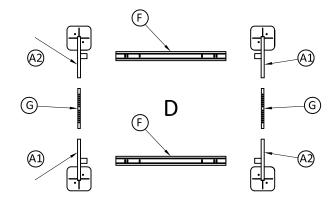
#### **End View Expanded**



#### **End View Retracted**

- (\*) Width is adjustable in 1" increments.
- (\*\*) Height is adjustable in  $\frac{1}{4}$ " or  $\frac{1}{4}$ " increments up to 1  $\frac{3}{4}$ ".

Important Note: The installer is responsible for tethering and bolting units to withstand wind and/or seismic loads.



#### **PARTS LIST**

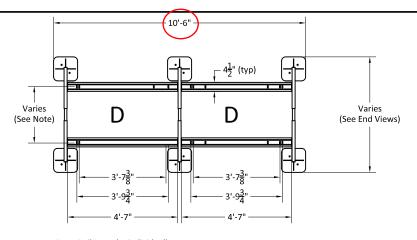
- (2) Single 1  $\frac{1}{2}$ " x 1  $\frac{1}{2}$ " Steel Adjustable L-Bar w/Feet (SS100L24)
- (2) Single  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " Steel Adjustable L-Bar w/Feet (SS100R24)
- (F) (2) 11 Gauge Type "D" Cross Rails (SS55)
- (G) (2)  $1\frac{1}{4}$ " x  $1\frac{1}{4}$ " Steel Adjustment Bars (SS103)

Note - All assembly hardware is included



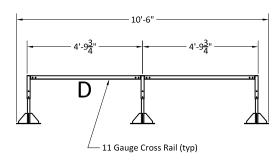
24" SUPER STAND - TYPE D MODEL NO. QSSS1019-24"

www.quick-sling.com email: info@quick-sling.com fax: 1-(800)-699-0423 Quick Sling, LLC 391 W. Water Street Taunton, MA 02780 1-(800)-699-0453

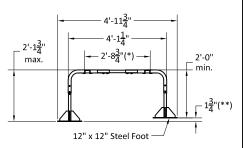


Note - Cross Rails may be individually rotated 180° to increasing range of adjustability of mounting holes.

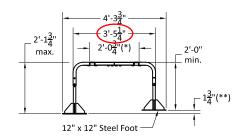
#### Plan View



Side View



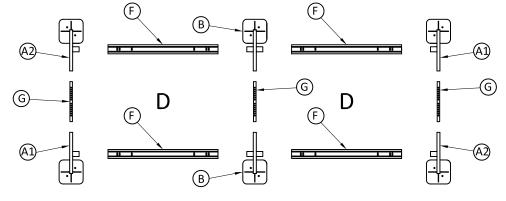
#### **End View Expanded**



#### **End View Retracted**

- (\*) Width is adjustable in 1" increments.
- (\*\*) Height is adjustable in  $\frac{1}{4}$ " or  $\frac{1}{4}$ " increments up to 1  $\frac{3}{4}$ ".

Important Note: The installer is responsible for tethering and bolting units to withstand wind and/or seismic loads.



#### **PARTS LIST**

- (2) Single 1½" x 1½" Steel Adjustable L-Bar w/Feet (SS100L24)
- (2) Single  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " Steel Adjustable L-Bar w/Feet (SS100R24)
- (B) (2) Double  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " Steel L-Bar w/Feet (SS101-24)
- (4) 11 Gauge Type "D" Cross Rails (SS55)
- (G) (3)  $1\frac{1}{4}$ " x  $1\frac{1}{4}$ " Steel Adjustment Bars (SS103)

Note - All assembly hardware is included



24" SUPER STAND - TYPE D-D MODEL NO. QSSS1020-24" www.quick-sling.com email: info@quick-sling.com fax: 1-(800)-699-0423 Quick Sling, LLC 391 W. Water Street Taunton, MA 02780 1-(800)-699-0453



8-Ton VRV-IV Heat Recovery Unit - 230V REYQ96TTJU

#### **FEATURES**

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times
- Factory standard coil guards

#### **BENEFITS**

- Can operate up to 64 indoor units on a single piping network
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Modular and lightweight enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting











8-Ton VRV-IV Heat Recovery Unit - 230V REYQ96TTJU

| PERFORMANCE                           |  |                                      |  |
|---------------------------------------|--|--------------------------------------|--|
| Outdoor Unit Model No.                | REYQ96TTJU   | Outdoor Unit Name:                   | 8-Ton VRV-IV Heat Recovery Unit - 230V                 |
| Туре:                                 | Heat Recovery  | Unit Combination:                    |  |
| Rated Cooling Conditions:             | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / | Rated Heating Conditions:            | Indoor (°F DB/WB): 70 /<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Piping Length(ft):              |  |                                      |  |
| Rated Height Difference (ft):         |  |                                      |  |
| Rated Cooling Capacity (Btu/hr):      | 90,000   | Rated Heating Capacity (Btu/hr):     | 100,000  |
| Nom Cooling Capacity (Btu/hr):        | 96,000   | Nom Heating Capacity (Btu/hr):       | 108,000  |
| Cooling Input Power (kW):             | 5.59   | Heating Input Power (kW):            | 7.69   |
| EER (Non-Ducted/Ducted):              | 15.10 / 13.10  | Heating COP (Non-Ducted/Ducted):     | 4.3 / 3.7  |
| IEER (Non-Ducted/Ducted):             | 29.30 / 21.00  | Heating COP 17F (Non-Ducted/Ducted): | 2.6 / 2.3  |
|                                       |  | SCHE (Non-Ducted/Ducted):            | 27.30 / 23.00  |
|                                       |  |                                      |  |
| OUTDOOR UNIT DETAILS                  |  |                                      |  |
| Power Supply (V/Hz/Ph):               | 208-230 / 60 / 3                                       | Compressor Type                      | Inverter   |
| Power Supply Connections:             | L1, L2, L3 Ground                                      | Capacity Control Range (%):          | 11 - 100   |
| Min. Circuit Amps MCA (A):            | 38.00  | Capacity Index Limit:                | -  |
| Max Overcurrent Protection (MOP) (A): | 45.00  | Airflow Rate (H) (CFM):              | 5827   |
| Max Starting Current MSC(A):          |  | Gas Pipe Connection (inch):          | 7/8  |
| Rated Load Amps RLA(A):               | 13.7+13.7  | Liquid Pipe Connection (inch):       | 3/8  |
| Dimensions (Height) (in):             | 66-11/16   | H/L Pressure Connection (inch)       | 3/4  |
| Discouries (Middle) (in).             | 40.70  | III Familia Oceanation (inch)        |  |

H/L Equalizing Connection (inch)

61

81

16

Sound Pressure (H) (dBA):

Sound Power Level (dBA):

Max. No. of Indoor Units:

Dimensions (Width) (in):

Dimensions (Depth) (in):

Net Weight (lb):

48-7/8

30-3/16

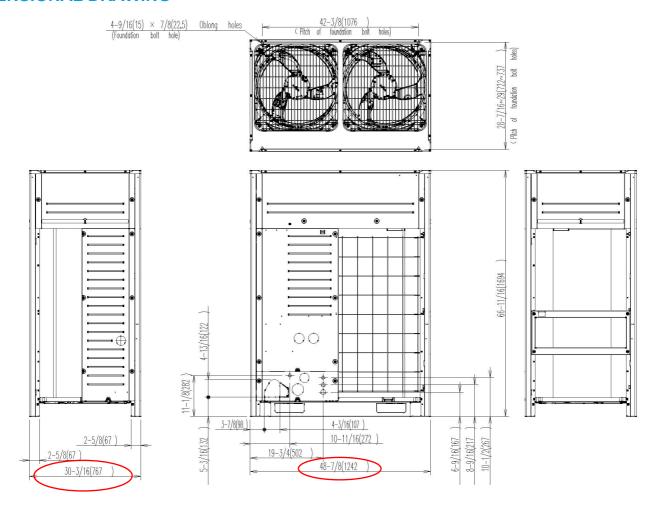
703



8-Ton VRV-IV Heat Recovery Unit - 230V REYQ96TTJU

| SYSTEM DETAILS                         |        |                                   |          |
|--|--------|-----------------------------------|----------|
| Refrigerant Type:                      | R-410A | Cooling Operation Range (°F DB):  | 23 - 122 |
| Holding Refrigerant Charge (lbs):      | 25.8   | Heating Operation Range (°F WB):  | -13 - 60 |
| Additional Charge (lb/ft):             |        | Max. Pipe Length (Vertical) (ft): | 295      |
| Pre-charge Piping (Length) (ft):       |        | Cooling Range w/Baffle (°F DB):   | -        |
| Max. Pipe Length (Total) (ft):         | 540    | Heating Range w/Baffle (°F WB):   | -        |
| Max Height Separation (Ind to Ind ft): |        |                                   |          |

#### **DIMENSIONAL DRAWING**





12-Ton VRV-IV Heat Recovery Unit - 230V REYQ144TTJU

#### **FEATURES**

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times
- Factory standard coil guards

#### **BENEFITS**

- Can operate up to 64 indoor units on a single piping network
- 3 row 7mm heat exchanger coil improves efficiency
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Modular and lightweight enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting











12-Ton VRV-IV Heat Recovery Unit - 230V REYQ144TTJU

| PERFORMANCE   |  |  |  |
|---|--|--|--|
| Outdoor Unit Model No.  | REYQ144TTJU  | Outdoor Unit Name:   | 12-Ton VRV-IV Heat Recovery Unit - 230V                |
| Туре:   | Heat Recovery  | Unit Combination:  |  |
| Rated Cooling Conditions:   | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / | Rated Heating Conditions:  | Indoor (°F DB/WB): 70 /<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Piping Length(ft):  |  |  |  |
| Rated Height Difference (ft):   |  |  |  |
| Rated Cooling Capacity (Btu/hr):  | 135,000  | Rated Heating Capacity (Btu/hr):                                 | 150,000  |
| Nom Cooling Capacity (Btu/hr):  | 144,000  | Nom Heating Capacity (Btu/hr):                                   | 162,000  |
| Cooling Input Power (kW):   | 10.80  | Heating Input Power (kW):  | 13.70  |
| EER (Non-Ducted/Ducted):  | 12.90 / 11.90  | Heating COP (Non-Ducted/Ducted):                                 | 3.8 / 3.6  |
| IEER (Non-Ducted/Ducted):   | 24.20 / 20.70  | Heating COP 17F (Non-Ducted/Ducted):                             | 2.6 / 2.4  |
|   |  | SCHE (Non-Ducted/Ducted):  | 25.50 / 23.80  |
| OUTDOOD UNIT DETAIL O   |  |  |  |
| OUTDOOR UNIT DETAILS  |  |  |  |
| Power Supply (V/Hz/Ph):   | 208-230 / 60 / 3                                       | Compressor Type  | Inverter   |
| Power Supply Connections:   | L1, L2, L3 Ground                                      | Capacity Control Range (%):                                      | 10 - 100   |
| Min. Circuit Amps MCA (A):  | 55.00  | Capacity Index Limit:  | -  |
| Max Overcurrent Protection (MOP) (A):   | 70.00  | Airflow Rate (H) (CFM):  | 8228   |
| Max Starting Current MSC(A):  |  | Gas Pipe Connection (inch):                                      | 1-1/8  |
| Rated Load Amps RLA(A):   | 16.2+22.6  | Liquid Pipe Connection (inch):                                   | 1/2  |
|   |  |  | 7/8  |
| Dimensions (Height) (in):   | 66-11/16   | H/L Pressure Connection (inch)                                   | 7/6  |
|   | 66-11/16<br>48-7/8                                     | H/L Pressure Connection (inch)  H/L Equalizing Connection (inch) | 776  |
| Dimensions (Height) (in):  Dimensions (Width) (in):  Dimensions (Depth) (in): |  | · · ·  | 65   |
| Dimensions (Width) (in):  | 48-7/8   | H/L Equalizing Connection (inch)                                 |  |

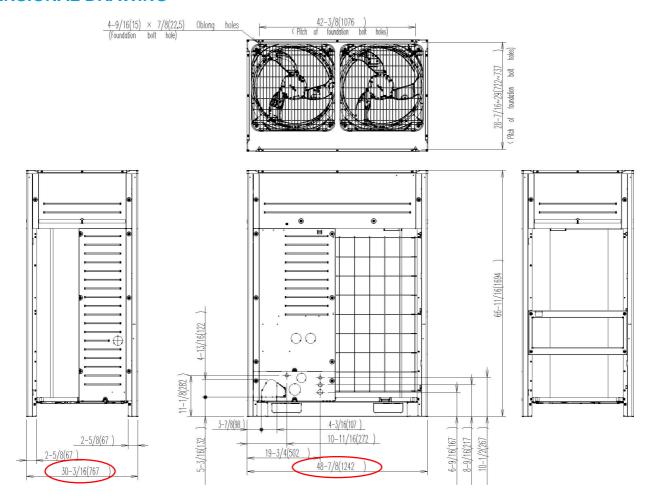
Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



12-Ton VRV-IV Heat Recovery Unit - 230V REYQ144TTJU

| SYSTEM DETAILS                         |        |                                   |          |
|--|--------|-----------------------------------|----------|
| Refrigerant Type:                      | R-410A | Cooling Operation Range (°F DB):  | 23 - 122 |
| Holding Refrigerant Charge (lbs):      | 25.8   | Heating Operation Range (°F WB):  | -13 - 60 |
| Additional Charge (lb/ft):             |        | Max. Pipe Length (Vertical) (ft): | 295      |
| Pre-charge Piping (Length) (ft):       |        | Cooling Range w/Baffle (°F DB):   | -        |
| Max. Pipe Length (Total) (ft):         | 540    | Heating Range w/Baffle (°F WB):   | -        |
| Max Height Separation (Ind to Ind ft): |        |                                   |          |

#### **DIMENSIONAL DRAWING**





14-Ton VRV-IV Heat Recovery Unit - 230V REYQ168TTJU

#### **FEATURES**

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times
- Factory standard coil guards

#### **BENEFITS**

- Can operate up to 64 indoor units on a single piping network
- 3 row 7mm heat exchanger coil improves efficiency
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Modular and lightweight enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting











14-Ton VRV-IV Heat Recovery Unit - 230V REYQ168TTJU

| PERFORMANCE                           |  |   |  |
|---------------------------------------|--|---|--|
| Outdoor Unit Model No.                | REYQ168TTJU  | Outdoor Unit Name:  | 14-Ton VRV-IV Heat Recovery Unit - 230V                |
| Туре:                                 | Heat Recovery  | Unit Combination:   |  |
| Rated Cooling Conditions:             | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / | Rated Heating Conditions:                                   | Indoor (°F DB/WB): 70 /<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Piping Length(ft):              |  |   |  |
| Rated Height Difference (ft):         |  |   |  |
| Rated Cooling Capacity (Btu/hr):      | 156,000  | Rated Heating Capacity (Btu/hr):                            | 176,000  |
| Nom Cooling Capacity (Btu/hr):        | 168,000  | Nom Heating Capacity (Btu/hr):                              | 188,000  |
| Cooling Input Power (kW):             | 13.90  | Heating Input Power (kW):                                   | 16.90  |
| EER (Non-Ducted/Ducted):              | 11.70 / 11.30  | Heating COP (Non-Ducted/Ducted):                            | 3.8 / 3.3  |
| IEER (Non-Ducted/Ducted):             | 22.00 / 19.50  | Heating COP 17F (Non-Ducted/Ducted):                        | 2.3 / 2.2  |
|                                       |  | SCHE (Non-Ducted/Ducted):                                   | 26.60 / 22.80  |
| OUTDOOD UNIT DETAIL O                 |  |   |  |
| OUTDOOR UNIT DETAILS                  |  |   |  |
| Power Supply (V/Hz/Ph):               | 208-230 / 60 / 3                                       | Compressor Type   | Inverter   |
| Power Supply Connections:             | L1, L2, L3 Ground                                      | Capacity Control Range (%):                                 | 10 - 100   |
| Min. Circuit Amps MCA (A):            | 61.90  | Capacity Index Limit:                                       | 84.0 - 336.0   |
| Max Overcurrent Protection (MOP) (A): | 70.00  | Airflow Rate (H) (CFM):                                     | 8228   |
| Max Starting Current MSC(A):          |  | Gas Pipe Connection (inch):                                 | 1-1/8  |
| Rated Load Amps RLA(A):               | 17.4+24.4  | Liquid Pipe Connection (inch):                              | 5/8  |
| Dimensions (Height) (in):             | 66-11/16   | H/L Pressure Connection (inch)                              | 7/8  |
|                                       |  |   |  |
| Dimensions (Width) (in):              | 48-7/8   | H/L Equalizing Connection (inch)                            |  |
|                                       | 48-7/8<br>30-3/16                                      | H/L Equalizing Connection (inch)  Sound Pressure (H) (dBA): | 65   |
| Dimensions (Width) (in):              |  |   | 65<br>86   |

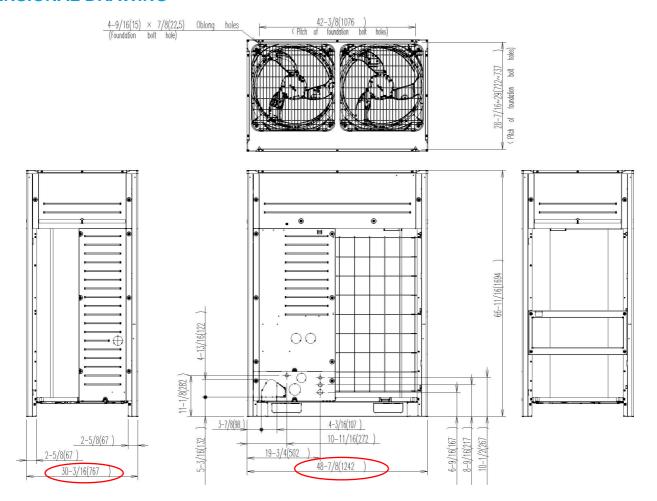
Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



14-Ton VRV-IV Heat Recovery Unit - 230V REYQ168TTJU

| SYSTEM DETAILS                         |        |                                   |          |
|--|--------|-----------------------------------|----------|
| Refrigerant Type:                      | R-410A | Cooling Operation Range (°F DB):  | 23 - 122 |
| Holding Refrigerant Charge (lbs):      | 25.8   | Heating Operation Range (°F WB):  | -13 - 60 |
| Additional Charge (lb/ft):             |        | Max. Pipe Length (Vertical) (ft): | 295      |
| Pre-charge Piping (Length) (ft):       |        | Cooling Range w/Baffle (°F DB):   | -        |
| Max. Pipe Length (Total) (ft):         | 540    | Heating Range w/Baffle (°F WB):   | -        |
| Max Height Separation (Ind to Ind ft): |        |                                   |          |

#### **DIMENSIONAL DRAWING**





16-Ton VRV-IV Heat Recovery Unit - 230V REYQ192TTJU

#### **FEATURES**

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times
- Factory standard coil guards

#### **BENEFITS**

- Can operate up to 64 indoor units on a single piping network
- Inverter control board cooled by refrigerant to avoid influence from ambient
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Continuous heating during defrost and oil return allows constant comfort control
- Modular and lightweight enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting.











16-Ton VRV-IV Heat Recovery Unit - 230V REYQ192TTJU

| PERFORMANCE   |  |  |  |
|---|--|--|--|
| Outdoor Unit Model No.  | REYQ192TTJU  | Outdoor Unit Name:   | 16-Ton VRV-IV Heat Recovery Unit -<br>230V                 |
| Туре:   | Heat Recovery  | Unit Combination:  | REYQ120TTJU + REYQ72TTJU                                   |
| Rated Cooling Conditions:   | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 /                   | Rated Heating Conditions:  | Indoor (°F DB/WB): 70 /<br>Ambient (°F DB/WB): 47 / 43     |
| Rated Piping Length(ft):  |  |  |  |
| Rated Height Difference (ft):   |  |  |  |
| Rated Cooling Capacity (Btu/hr):  | 180,000  | Rated Heating Capacity (Btu/hr):   | 200,000  |
| Nom Cooling Capacity (Btu/hr):  | 192,000  | Nom Heating Capacity (Btu/hr):   | 216,000  |
| Cooling Input Power (kW):   | 13.90  | Heating Input Power (kW):  | 17.40  |
| EER (Non-Ducted/Ducted):  | 12.50 / 12.60  | Heating COP (Non-Ducted/Ducted):   | 3.8 / 3.7  |
| IEER (Non-Ducted/Ducted):   | 22.90 / 20.40  | Heating COP 17F (Non-Ducted/Ducted):   | 2.6 / 2.4  |
| ILLIN (Non-Ducted/Ducted).  |  | ,  |  |
| ILLIN (NOIT-Bucteur Bucteur).   |  | SCHE (Non-Ducted/Ducted):  | 26.60 / 22.90  |
| · · · · · · · · · · · · · · · · · · ·   |  |  |  |
| OUTDOOR UNIT DETAILS  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·   | 208-230 / 60 / 3   |  |  |
| OUTDOOR UNIT DETAILS  | 208-230 / 60 / 3<br>L1, L2, L3 Ground                                    | SCHE (Non-Ducted/Ducted):  | 26.60 / 22.90  |
| OUTDOOR UNIT DETAILS Power Supply (V/Hz/Ph):  |  | SCHE (Non-Ducted/Ducted):  Compressor Type   | 26.60 / 22.90<br>Inverter                                  |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  | L1, L2, L3 Ground  | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  | 26.60 / 22.90  Inverter  5 - 100                           |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  Min. Circuit Amps MCA (A):  | L1, L2, L3 Ground<br>30.2+43.0   | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  Capacity Index Limit:   | 26.60 / 22.90  Inverter  5 - 100                           |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  Min. Circuit Amps MCA (A):  Max Overcurrent Protection (MOP) (A):   | L1, L2, L3 Ground<br>30.2+43.0   | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  Capacity Index Limit:  Airflow Rate (H) (CFM):  | 26.60 / 22.90  Inverter  5 - 100  -  5554+6286             |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  Min. Circuit Amps MCA (A):  Max Overcurrent Protection (MOP) (A):  Max Starting Current MSC(A):   | L1, L2, L3 Ground<br>30.2+43.0<br>35+50                                  | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  Capacity Index Limit:  Airflow Rate (H) (CFM):  Gas Pipe Connection (inch):   | 26.60 / 22.90  Inverter  5 - 100  -  5554+6286  1-1/8      |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  Min. Circuit Amps MCA (A):  Max Overcurrent Protection (MOP) (A):  Max Starting Current MSC(A):  Rated Load Amps RLA(A):  | L1, L2, L3 Ground 30.2+43.0 35+50 20.7+(15.0+15.0)                       | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  Capacity Index Limit:  Airflow Rate (H) (CFM):  Gas Pipe Connection (inch):  Liquid Pipe Connection (inch):   | 26.60 / 22.90  Inverter  5 - 100  -  5554+6286  1-1/8  5/8 |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  Min. Circuit Amps MCA (A):  Max Overcurrent Protection (MOP) (A):  Max Starting Current MSC(A):  Rated Load Amps RLA(A):  Dimensions (Height) (in):                           | L1, L2, L3 Ground 30.2+43.0 35+50 20.7+(15.0+15.0) 66-11/16              | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  Capacity Index Limit:  Airflow Rate (H) (CFM):  Gas Pipe Connection (inch):  Liquid Pipe Connection (inch):  H/L Pressure Connection (inch)                                   | 26.60 / 22.90  Inverter  5 - 100  -  5554+6286  1-1/8  5/8 |
| OUTDOOR UNIT DETAILS  Power Supply (V/Hz/Ph):  Power Supply Connections:  Min. Circuit Amps MCA (A):  Max Overcurrent Protection (MOP) (A):  Max Starting Current MSC(A):  Rated Load Amps RLA(A):  Dimensions (Height) (in):  Dimensions (Width) (in): | L1, L2, L3 Ground  30.2+43.0  35+50  20.7+(15.0+15.0)  66-11/16  85-9/16 | SCHE (Non-Ducted/Ducted):  Compressor Type  Capacity Control Range (%):  Capacity Index Limit:  Airflow Rate (H) (CFM):  Gas Pipe Connection (inch):  Liquid Pipe Connection (inch):  H/L Pressure Connection (inch)  H/L Equalizing Connection (inch) | 26.60 / 22.90  Inverter  5 - 100  -  5554+6286  1-1/8  5/8 |

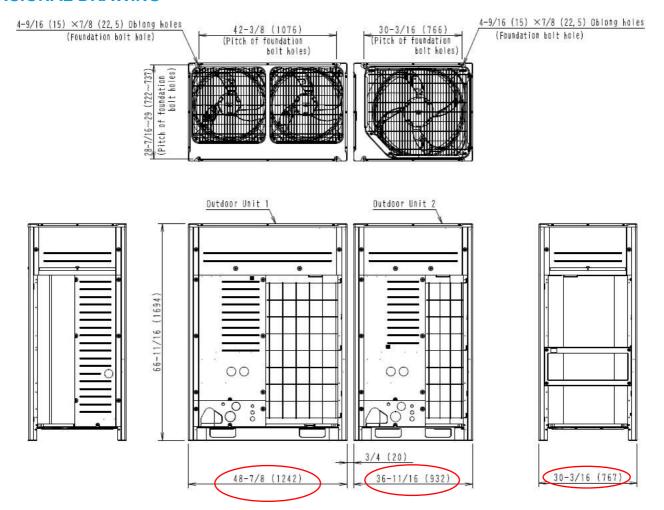
Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



16-Ton VRV-IV Heat Recovery Unit - 230V REYQ192TTJU

| SYSTEM DETAILS                         |           |                                   |          |
|--|-----------|-----------------------------------|----------|
| Refrigerant Type:                      | R-410A    | Cooling Operation Range (°F DB):  | 23 - 122 |
| Holding Refrigerant Charge (lbs):      | 21.9+25.8 | Heating Operation Range (°F WB):  | -13 - 60 |
| Additional Charge (lb/ft):             |           | Max. Pipe Length (Vertical) (ft): | 295      |
| Pre-charge Piping (Length) (ft):       |           | Cooling Range w/Baffle (°F DB):   | -        |
| Max. Pipe Length (Total) (ft):         | 540       | Heating Range w/Baffle (°F WB):   | -        |
| Max Height Separation (Ind to Ind ft): |           |                                   |          |

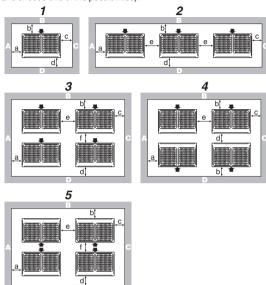
#### **DIMENSIONAL DRAWING**



EDUS371435-N Installation Manual

#### 5.2. Service space

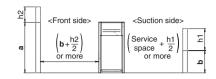
The space around the unit is adequate for servicing and the minimum space for air inlet and air outlet is available (refer to the figure below and choose one of the possibilities).



ABCD Sides along the installation site with obstacles

Suction side

|   | A+B   | A+B   |   |
|---|---|---|---|
| 1 | a≥3/8 (10)<br>b≥11-3/4 (300)<br>c≥3/8 (10)<br>d≥19-5/8 (500)                                  | a≥2 (50)<br>b≥3-7/8 (100)<br>c≥2 (50)<br>d≥19-5/8 (500)                                     | a≥7-7/8 (200)<br>b≥11-3/4 (300)                   |
| 2 | a≥3/8 (10)<br>b≥11-3/4 (300)<br>c≥3/8 (10)<br>d≥19-5/8 (500)<br>e≥3/4 (20)                    | a≥2 (50)<br>b≥3-7/8 (100)<br>c≥2 (50)<br>d≥19-5/8 (500)<br>e≥3-7/8 (100)                    | a≥7-7/8 (200)<br>b≥11-3/4 (300)<br>e≥15-3/4 (400) |
| 3 | a≥3/8 (10)<br>b≥11-3/4 (300)<br>c≥3/8 (10)<br>d≥19-5/8 (500)<br>e≥3/4 (20)<br>f≥23-5/8 (100)  | a≥2 (50)<br>b≥3-7/8 (100)<br>c≥2 (50)<br>d≥19-5/8 (500)<br>e≥3-7/8 (100)<br>f≥19-5/8 (500)  | Unit: in.(mm)                                     |
| 4 | a≥3/8 (10)<br>b≥11-3/4 (300)<br>c≥3/8 (10)<br>d≥19-5/8 (500)<br>e≥3/4 (20)                    | a≥2 (50)<br>b≥3-7/8 (100)<br>c≥2 (50)<br>d≥19-5/8 (500)<br>e≥3-7/8 (100)                    |   |
| 5 | a≥3/8 (10)<br>b≥19-5/8 (500)<br>c≥3/8 (10)<br>d≥19-5/8 (500)<br>e≥3/4 (20)<br>f≥35-7/16 (900) | a≥2 (50)<br>b≥19-5/8 (500)<br>c≥2 (50)<br>d≥19-5/8 (500)<br>e≥3-7/8 (100)<br>f≥23-5/8 (600) |   |



- a 59 in. (1500 mm)
- **b** 19-5/8 in. (500 mm)
- In case of an installation site where sides A+B+C+D have obstacles, the wall heights of sides A+C have no impact on service space dimensions. Refer to the foregoing figure for impact of wall heights of sides B+D on service space dimensions.
- In case of an installation site where only the sides A+B have obstacles, the wall heights have no influence on any indicated service space dimensions.
- The installation space required on these drawings are for full load heating operation without considering possible ice accumulation. If the location of the installation is in a cold climate, then all dimensions above should be >19-5/8 in. (500 mm) to avoid accumulation of ice in between the outdoor units.

#### — III INFORMATION

- The service space dimensions in above figure are based on cooling operation at 95°F (35°C) ambient temperature (standard conditions).
- If the design outdoor temperature exceeds 95°F (35°C) or the heat load exceeds maximum capacity in all the outdoor unit, take an even large space on the intake shown in figure in 5.2. Service space.

#### — 🚹 INFORMATION -

Further specifications can be found in the Engineering Data Book.

3P362438-3H English

REYQ-T 6

3P362438-3H

6