Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/13/16

**Produced on 2/26/2016 with Xpress Selection V7.1.0 - database Central_USA 9.8.8**

*Project name* PWD
*Reference* WEBB
*Client name* PATRIOT
*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 |
|---|---|---|
| RXYQ144PBTJ | 1 | Heat pump VRV P(B) R410A (208-230V) |
| FXMQ36PAVJU | 2 | VRV M (PA) - Ceiling Mounted Ducted (Medium Static) |
| FXMQ48PAVJU | 2 | VRV M (PA) - Ceiling Mounted Ducted (Medium Static) |
| KHRP26A33T9 | 1 | Refnet branch piping kit |
| KHRP26M72TU9 | 2 | Refnet branch piping kit |
| BRC1E73 | 4 | new Navigation Remote Controller |
| R410A | 14.1lbs | Extra refrigerant charge |
| Piping ⅜" | 35.0ft | |
| Piping ½" | 45.0ft | |
| Piping ⅝" | 30.0ft | |
| Piping ⅞" | 5.0ft | |
| Piping 1⅛" | 45.0ft | |

# 2. Indoor Unit Details

## 2.1. CU-1 - RXYQ144PBTJ

**Capacity data at conditions and connection ratio (117%) 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 |
| HP-1 | FXMQ36PAVJU | 80.0 / 67.1 | n/a | 36024 | n/a | 28048 | 42.8 | 65.0 | n/a | 43705 | 1130 |
| HP-2 | FXMQ36PAVJU | 80.0 / 67.1 | n/a | 36024 | n/a | 28048 | 42.8 | 65.0 | n/a | 43705 | 1130 |
| HP-3 | FXMQ48PAVJU | 80.0 / 67.1 | n/a | 48044 | n/a | 34913 | 42.8 | 65.0 | n/a | 58990 | 1377 |
| HP-4 | FXMQ48PAVJU | 80.0 / 67.1 | n/a | 48044 | n/a | 34913 | 42.8 | 65.0 | n/a | 58990 | 1377 |
| Σ | | | 168136 | | | | | | 205390 | | |

| Name | Sound | PS | MCA | Fuses | WxHxD | Wght |
|---|---|---|---|---|---|---|
| | dBA | | A | | inch | lbs |
| HP-1 | 39-43 | 230V 1ph | 2.9 | 15A | 55.1x11.8x27.6 | 101 |
| HP-2 | 39-43 | 230V 1ph | 2.9 | 15A | 55.1x11.8x27.6 | 101 |
| HP-3 | 40-44 | 230V 1ph | 3.4 | 15A | 55.1x11.8x27.6 | 101 |
| HP-4 | 40-44 | 230V 1ph | 3.4 | 15A | 55.1x11.8x27.6 | 101 |

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

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# 3. Outdoor Unit Details

## 3.1. Outdoor Details

| Name | Model | Comb | Tmp C | CC | Rq CC | Tmp H | HC | Rq HC | Piping |
|---|---|---|---|---|---|---|---|---|---|
| | | % | °F | BTU/h | BTU/h | °F | BTU/h | BTU/h | ft |
| CU-1 | RXYQ144PBTJ | 117 | 89.6 | 152514 | 84068 | 32.0 / 27.0 | 136630 | 102695 | 64.9 |

| Name | Model | Refrigerant | | |
|---|---|---|---|---|
| | | Type | Bse Refr | Ex Refr |
| | | | lbs | lbs |
| CU-1 | RXYQ144PBTJ | R410A | 24.5 | 14.1 |

| Name | Model | PS | MCA | MFA | Run Amps | St Curr | Fuses | WxHxD | Wght |
|---|---|---|---|---|---|---|---|---|---|
| | | | A | A | A | A | | inch | lbs |
| CU-1 | RXYQ144PBTJ | 230V 3ph | 72.2 | 80 | 28.6 | | 80A | 51.2x66.1x30.1 | 747 |

| Name | Ducted | | | | Non-ducted | | | |
|---|---|---|---|---|---|---|---|---|
| | EER | IEER | COP 47°F | COP 17°F | EER | IEER | COP 47°F | COP 17°F |
| CU-1 | 11.3 | 17.6 | 3.4 | 2.45 | 11.3 | 20.5 | 3.6 | 2.55 |

# 4. Piping Diagrams

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

## 4.1. Piping CU-1

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# 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.

## *5.1. Wiring CU-1*

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