MITSUBISHI ELECTRIC

COOLING & HEATING

PRODUCT LAUNCH KIT

Assembled in USA

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PRODUCT LAUNCH KIT

Assembled in USA

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AIRWAVE BULLETIN

MITSUBISHI ELECTRIC
COOLING & HEATING

PRODUCT PLANNING

March 4, 2015 Bulletin #0485

To: All Cooling & Heating Staff

Subject: **CITY MULTI Outdoor Units Assembled in USA**

We are pleased to announce that we have started assembling CITY MULTI outdoor units in our distribution center in Suwanee, Georgia. Units assembled in Suwanee will be labeled “Assembled in USA”, and are indicated by a “-U” at the end of the model number.

The Assembled in USA units available are:

- CITY MULTI R2-Series Air-source Outdoor Units
- CITY MULTI R2-Series Air-source Outdoor Units with Salt Protection
- CITY MULTI Y-Series Air-source Outdoor Units
- CITY MULTI Y-Series Air-source Outdoor Units with Salt Protection

The Assembled in USA units are now available to order. Official pricing pages will be available in the April 1 Price Guide. Both –A and –U models are available for ordering.

A full product launch kit is available to you at R:\Product Launch Support\2015 02 Assembled in the US. It is an aggregate of all of the following information and more.

- An educational sales-training PDF is available for download via this link. It should be used as a training tool to educate yourself and your distributors about this product. The kit includes educational information about Assembled in USA units, ordering and operations information, a glossary of key terms, a list and explanation of groups and agencies of interest, and more.

- A product launch guide is now available for download and ordering via the Extranet. The product launch guide is a 4-page glossy sales aid.

- Technical documentation is now available on MyLinkDrive. Specifications are identical to K-Generation units. A generic submittal is available for all units (-A and –U) and Assembled in USA submittals are available separately.

- The Quick Edit Guide Specification document has been updated to include the Assembled in USA product and is available on MyLinkDrive.

If you have any questions, please contact Pamela Duffy, Senior Product Manager – Commercial at pduffy@hvac.mea.com

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2. SUMMARY OF EQUIPMENT ASSEMBLED IN USA

A) Units

The available Assembled in USA units are:

- CITY MULTI R2-Series Air-source Outdoor Units
- CITY MULTI R2-Series Air-source Outdoor Units with Salt Protection
- CITY MULTI Y-Series Air-source Outdoor Units
- CITY MULTI Y-Series Air-source Outdoor Units with Salt Protection

B) Model Numbers

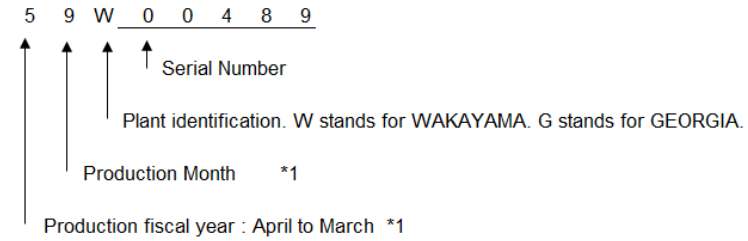
The applicable model numbers are:

- PURY-P**(T/Y)KMU-U
- PURY-P**(T/Y)KMU-U-BS
- PUHY-P**(T/Y)KMU-U
- PUHY-P**(T/Y)KMU-U-BS

B) Serial Numbers

Plant identification is “G” for Georgia as shown below.

Serial No. of CITY MULTI Outdoor Units



In this case, Sep / 2005

*1	5	4	April / 2015
	5	5	May / 2015
	5	6	June / 2015
	5	7	July / 2015
	5	8	August / 2015
	5	9	September / 2015
	5	X	October / 2015
	5	Y	November / 2015
	5	Z	December / 2015
	5	1	January / 2016
	5	2	February / 2016
	5	3	March / 2016
	6	4	April / 2016
	6	5	May / 2016

3. INFORMATION ON ASSEMBLED IN USA

A) Determination from Customs and Border Protection (CBP).

Mitsubishi Electric Cooling & Heating received a determination from the U.S. Customs and Border Protection (CBP) of the substantial transformation of the CITY MULTI® outdoor units assembled in the Suwanee facility. The ruling officially qualifies our outdoor unit as "Assembled in USA".

The key language from this ruling is as follows:

> *"Based on the totality of the circumstances, we find that the Outdoor Units are substantially transformed as a result of the processing in the U.S. Accordingly, we find that the Outdoor Unit may be considered a product of the U.S. for purposes of U.S. Government procurement."*
>
> **Federal Register** / Vol. 79, No. 220 / Friday, November 14, 2014 pages 68284 - 68246

B) "Assembled in USA" versus "Made in the USA"?

The products discussed as a part of this launch kit are Assembled in USA. They are **NOT** Made in the USA.

Mitsubishi Electric Cooling & Heating is the only VRF HVAC supplier to have received a final determination from the U.S. Government on the substantial transformation and domestic origin of the outdoor units.

4. SELLING CITY MULTI SYSTEMS TO THE U.S. GOVERNMENT

Although Mitsubishi is the only VRF supplier to have received a determination from the U.S. Government on the substantial transformation of the ODU, we must still request a waiver for the entire system since the "entire system" is not "a product of the U.S." for the purpose of government procurement. Our waiver statement (as shown below) is now considerably stronger with the systems now being based on an outdoor unit that has been determined to be a "product of the U.S." for the purposes of Government procurement.

To comply with the provisions of Buy American Act the non-availability exception is used. U.S. Government agencies have approved waivers for VRF systems on the basis that there is no domestic manufacturer of these specialized HVAC systems. U.S.

government agencies may grant waivers when the specified equipment is "Not produced in the U.S. in sufficient and reasonably available quantities and of satisfactory quality". VRF systems meet these criteria.

Recommended waiver language:

The Mitsubishi Electric (MEUS) CITY MULTI Variable Refrigerant Flow (VRF) Systems for this project have components from several different countries. The highest dollar value components in the system are the outdoor units (ODUs) which are "Assembled in USA". The U.S. Customs and Border Protection have determined that the key components, the ODUs, are a "product of the US" for the purposes of U.S. Government procurement. The key language from this ruling is as follows:

> *"Based on the totality of the circumstances, we find that the Outdoor Units are substantially transformed as a result of the processing in the U.S. Accordingly, we find that the Outdoor Unit may be considered a product of the U.S. for purposes of U.S. Government procurement."*
>
> **Federal Register** / Vol. 79, No. 220 / Friday, November 14, 2014 pages 68284 – 68246

A non-availability waiver is requested for each CITY MULTI system. There is no domestic manufacturer of VRF HVAC systems in the U.S. However, MEUS is the only VRF Supplier to have received a Final Determination from the U.S. Government on the substantial transformation of the ODU. The ODU, which is the major component of each system has the highest cost of components in each system and is recognized by the U.S. Government as "a product of the U.S." (i.e. the U.S. is the country of origin).

Mitsubishi Electric is available to actively support your waiver application. Questions and/or assistance concerning this process should be directed to the IGR team.

4. ORDERING PROCESS

A) Projects that require Assembled in USA units

Projects that **require** Assembled in USA units must submit a Purchase Order (PO) that clearly identifies models ending in –U. We request that the "notes" section indicate the reason the -U units are being ordered simply for tracking purposes.

Contractors should use the Assembled in US submittals available on MyLinkDrive for ordering. These have model numbers ending in –U and have a bullet point under general features indicating the unit is Assembled in USA.

B) Orders for Standard –A Units (non-BAA or other projects where -U units are not required)

Depending on the availability and stock of –A and –U units, it is possible that we will request a substitution on your order. If this occurs, a member of our Operations team will reach out to the Mitsubishi Electric sales manager in order to request a substitution from –A to –U units. The sales manager must notify the distributor of the change.

As a best practice, the distributor should re-issue the Purchase Order (PO) for the –U units. This will ensure that all processes run smoothly, and that units received at the job site or a warehouse will not be rejected due to model numbers not matching the PO exactly.

Upon confirmation that the substitution is acceptable, an order confirmation will be sent to the customer with the revised model numbers.

C) Mixing –A and –U units

It is acceptable to mix –A and –U units on jobs where Assembled in USA units are not required. System performance will not be affected when –A and -U modules are twinned.

However, we suggest that whenever possible, all units on a given project be all the same version (-A or –U) of a model to reduce confusion.

Additionally, we will make every attempt to ship orders entirely of –A or –U product. This may not always be possible due to daily changes in inventory.

Mitsubishi Electric Cooling & Heating

ASSEMBLED IN USA

MITSUBISHI ELECTRIC
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We proudly announce select outdoor units are now available

ASSEMBLED IN USA



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Mitsubishi Electric Cooling & Heating

Assembled in USA

- CITY MULTI Air-Source Outdoor Units
  - Y-Series and R2-Series
  - 208/230V and 460V
  - Seacoast Protected Units Available
- How to identify an Assembled in USA unit?
  - Model numbers will end in –U
  - Example: PURY-P**(T/Y)KMU-**U**



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Terminology - Know the Difference

Assembled in USA

A product that includes foreign components may be called "Assembled in USA" without qualification when its principal assembly takes place in the U.S. and the assembly is substantial.

Made in USA

This mark is a country of origin label indicating the product is "all or virtually all" made in the United States. The label is regulated by the Federal Trade Commission (FTC).

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ETL Listed

Our outdoor units Assembled in USA…

"…have been tested, investigated and found to comply with the requirements of the Standard(s) for Heating and Cooling Equipment (UL-1995) and are identified with the ETL Listed Mark."

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AHRI Certified

AHRI Certified Ref #	Model Status	Brand Name	Series Name	Manufacturer	AHRI Type	System Model Number	Module Model Number(s)	Indoor Type
7490430	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P144TKMU-U		
7490431	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P144TKMU-U	PURY-P144TKMU-U	Non-Ducted Indoor Units
7490432	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P144YKMU-U	PURY-P144YKMU-U	Ducted Indoor Units
7490433	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P144YKMU-U	PURY-P144YKMU-U	Non-Ducted Indoor Units
7490434	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P144YSKMU-U	PURY-P72YKMU-U, PURY-P72YKMU-U	Ducted Indoor Units
7490435	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P144YSKMU-U	PURY-P72YKMU-U, PURY-P72YKMU-U	Non-Ducted Indoor Units
7490436	Active	CITY MULTI		MITSUBISHI ELECTRIC COOLING & HEATING	HMSR-A-CB	PURY-P168TSKMU-U	PURY-P96TKMU-U, PURY-P72TKMU-U	Ducted Indoor Units

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Differences between –A and –U Units

Feature	Same?	Notes
Product Performance	Yes	Units are designed and assembled to the technical specification as those in Japan.
AHRI Rated	Yes	-U units have the same exact efficiency ratings as –A units.
ETL Certification	Yes	Listed on the same certificate
Technical Literature	No	Submittals, Parts Manual, and Technical Service Manual will be different.
Serial Numbers	No	Serial numbers from U.S. will have a different designation for Suwanee manufacturing line.

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Order Fulfillment

- Only order -U units when necessary
- Must put –U units on PO
- Orders for –A units may be fulfilled with –U units

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First Unit off the Assembly Line



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Assembly Line Employees

- Over 76 years combined manufacturing experience
- Completed total 15 weeks of training in our established factories
  - Leak detection
  - Electrical run testing
  - Programming unit capacity and sequencing
  - Wiring, brazing, and assembly
  - Proper screw gun usage
  - Robotics
- Manufacturing supervisors from Japan regularly visit our facility and conduct additional on-site training.
- Use Wakayama production and quality standards



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Assembly Line





Quality Review
Leak Testing & Electrical Run Test

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Assembly Line



Main Assembly Area

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Assembly Line



Final Testing, Brazing, and Casement

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Assembly Line





Prep for Shipment

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Best Practices to Land Jobs

1. Know and understand the **requirements for <u>each job</u>** to be able to best position our technologies.

2. Integrate unique features of our products early into discussion.

3. Utilize Mitsubishi Electric resources
   - Industry & Government Relations (IGR) Newsletter
   - Paul Doppel, Senior Director, Industry & Government Relations

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COMPETITIVE LANDSCAPE

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Competitive Analysis

Heat Pump

Outdoor Unit	6	8	10	12	14	16	18	20	22	24	26	28	30	32	33	34	36	38
	72	96	120	144	168	192	216	240	264	288	312	336	360	384	390	408	432	456
Air Source Heat Pump																		
DAIKIN																		
DAIKIN VRV IV																		
LG III																		
LG IV																		
SAMSUNG Plus 3																		
SAMSUNG DVMS																		
TOSHIBA Carrier																		
LENNOX																		
Panasonic																		

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Competitive Analysis

Heat Recovery

Outdoor Unit	6	8	10	12	14	16	18	20	22	24	26	28	30	32	33	34	36	38
	72	96	120	144	168	192	216	240	264	288	312	336	360	384	390	408	432	456
Air Source Heat Recovery																		
DAIKIN																		
DAIKIN VRV IV																		
LG III																		
LG IV																		
SAMSUNG																		
SAMSUNG																		
TOSHIBA Carrier																		
LENNOX																		
Panasonic																		

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Advantages

- Our Advantages:
  - Higher EER in larger modules (ex: P312 12.1 vs. 9.8)
  - Products are available for sale and ship; full technical data available
  - **Waiver Advantage**

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CITY MULTI System Waiver

The Mitsubishi Electric (MEUS) CITY MULTI Variable Refrigerant Flow (VRF) Systems for this project have components from several different countries. The highest dollar value components in the system are the outdoor units (ODUs) which are "Assembled in USA". The US Customs and Border Protection has determined that these key components, the ODUs, are "a product of the US" for the purposes of US Government procurement. The key language from this ruling is as follows:

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Federal Register / Vol. 79, No. 220 / Friday, November 14, 2014 pages 68284 – 68246

A non-availability waiver is requested for each CITY MULTI system. There is no domestic manufacturer of VRF HVAC systems in the U.S. However, MEUS is the only VRF Supplier to have received a Final Determination from the U.S. government on the substantial transformation of the ODU. The ODU, which is the major component of each system and has the highest cost of the components in each system and is recognized by the U.S. government as "a product of the US" (i.e. the U.S. is the country of origin).

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Spec Stoppers

- Leverage Heat Recovery
- Put data on schedules that is currently not published, examples:
  - Refrigerant Volume
  - Equipment performance at non-rated (AHRI) temperatures
  - Low ambient cooling guarantee temperature
  - Electrical data: MCA, MOCP

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Planned Promotion & Marketing

- Resources Available
  - MyLinkDrive
  - Product Launch Kit : R→ Product Launch Support
    - Product Launch Guide
    - Slide library
    - Technical Literature:
      - Submittals
      - Engineering Manuals
      - Technical Service Manual
      - Parts Manual

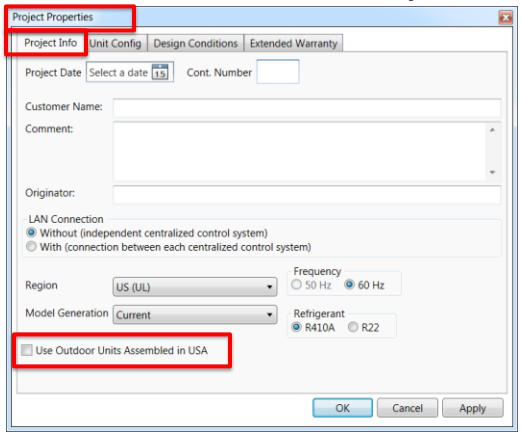
MITSUBISHI ELECTRIC COOLING & HEATING Live Better

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Sales Tools

Diamond System Builder

For all Assembled in USA on the Entire Project:



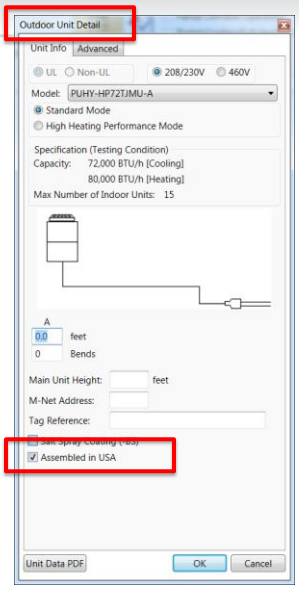
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Sales Tools

Diamond System Builder

For Assembled in USA for a single unit

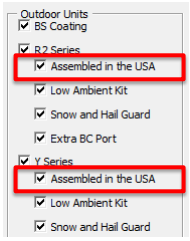


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Sales Tools

Quick Edit Guide Specifications



When this box is checked, Assembled in USA verbiage will be added to the General section in the outdoor unit specification.

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ASSEMBLED IN USA

Questions?

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6. GOVERNMENT AGENCIES AND RELATED GROUPS

SAME - Society for American Military Engineers

- Website: http://www.same.org/
- Find your local chapter: http://www.same.org/index.php/post-operations/find-a-post-chapter-near-you
    - Local chapters with 2015 events planned already in Maryland, Washington D.C., Phoenix, Houston, Nashville, and New Orleans. More chapters have events planned but are not posted on the national website.
- 2015 Joint Engineer Training Conference & Expo (JETC) May 19-22, 2015 in Houston, TX

NAVFAC - Navy Facilities Engineering Command

- Website: http://www.navfac.navy.mil
- Locations: http://www.navfac.navy.mil/map.html
- Design manuals, technical policies, critieria, etc. located at: http://www.wbdg.org/references/pa_dod.php

United States Army Corps of Engineers

- Website: http://www.usace.army.mil/
- Divisions: http://www.usace.army.mil/Locations.aspx
- Design manuals, technical policies, critieria, etc. located at: http://www.wbdg.org/references/pa_dod.php

PROCUREMENT:

GSA - General Services Administration

- Website: http://www.gsa.gov
- Local Events: http://www.gsa.gov/portal/event/getEvents/future/category/22104/hostUri/portal
- Vendors on the GSA schedule are generally preferred for jobs that require GSA procurement.

SAM - System for Award Management

- Website: https://www.sam.gov
- Integration of federal procurement systems, including the Central Contractor Regsitry (CCR), Federal Agency Regsitration (Fedreg), and more.
- Manages the US Federal Contractor Registration; Website: https://www.uscontractorregistration.com/

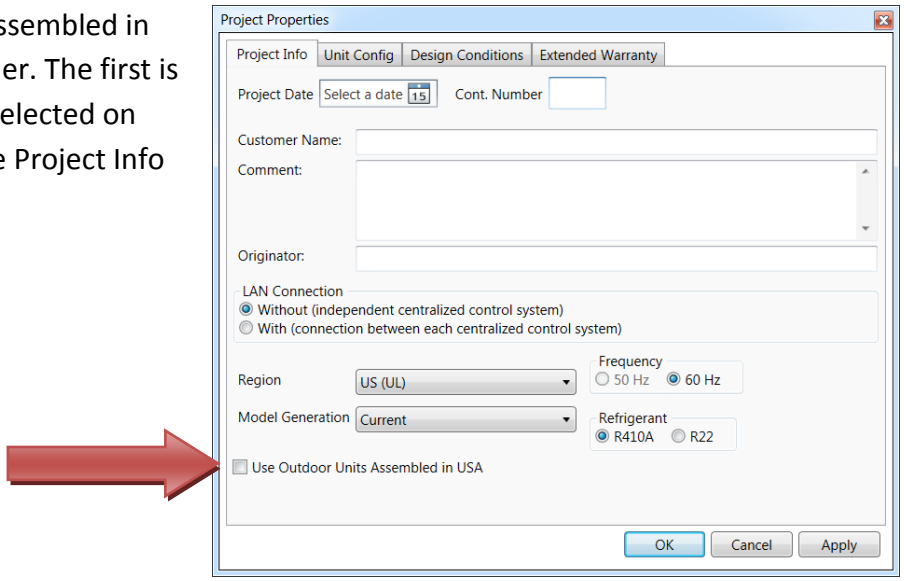
Other groups worth investigating:

- Fedbizops.com (Procurement)
- Deltek.com Government bid list
- CORMS

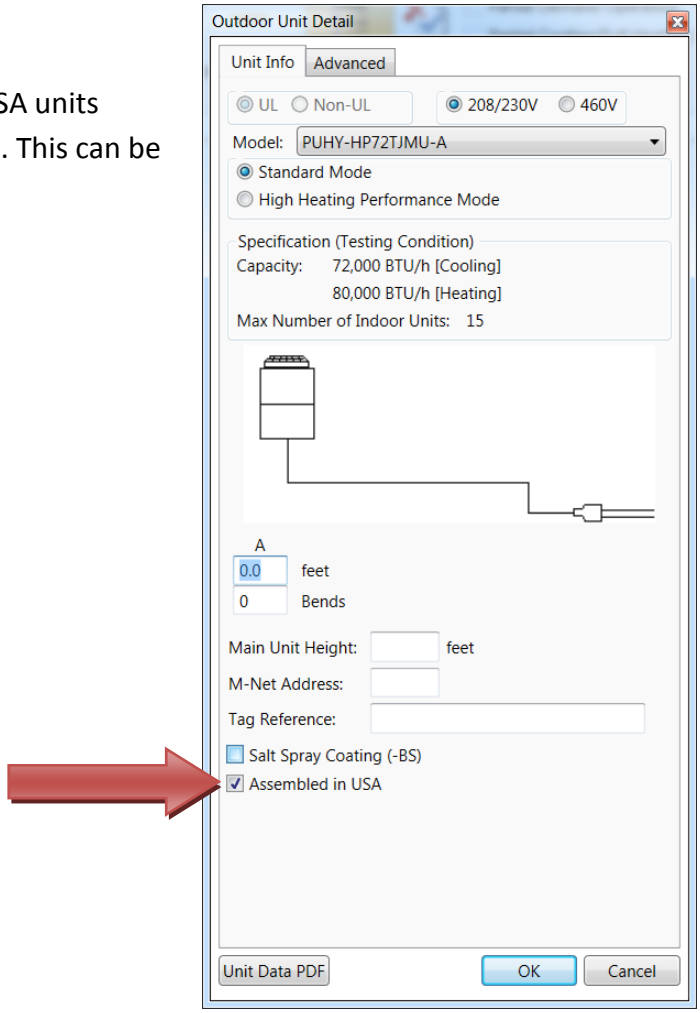
7. SALES TOOLS

A) Diamond System Builder

Users have two options to select Assembled in USA units in Diamond System Builder. The first is for the entire project. This can be selected on the Project Properties screen in the Project Info tab:

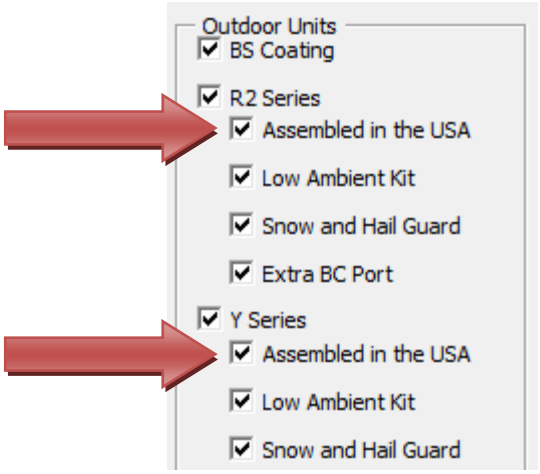


Another option is to select the Assembled in USA units specifically for an individual unit on the project. This can be done on the Outdoor Unit Detail screen:



B) Quick Edit Guide Specifications

The Quick Edit Guide Specification available on MyLinkDrive has been updated with a checkbox for projects requiring Assembled in the USA equipment. Assembled in USA-specific language is inserted into Section 15 70 00 (Master Format 1995) or 23 80 00 (Master Format 2004).



8. PRODUCT LAUNCH GUIDES

The pages that follow are marketing documents that are available to you to assist in selling the Assembled in USA equipment.

Ordering Materials: You can order printed glossy versions of the product launch guides via the Mitsubishi Electric Extranet.

1) Log in to the extranet at http://mzcms.mehvac.com/home.aspx
2) Hover over “Resources and Tools”
3) Select “Material Orders”
4) Under the gray Browse Products box, select Commercial Material
5) Navigate to PLG R2 Series or PLG Y Series and select “Add to Cart”
6) Follow the next steps in the navigation to place your order.

Digital Versions: You can download digital versions of the product launch guides via the Mitsubishi Electric Extranet.

1) Log in to the extranet at http://mzcms.mehvac.com/home.aspx
2) Hover over “Resources and Tools”
3) Select “Material Orders”
4) Hover over “Tools”
5) Select “Asset Library”
6) In the Asset Directory, Select Literature PDFs → Product Guides
7) Navigate to PLG_R2 Series or PLG_YSeries and click the add button
8) Follow the next steps in the navigation to place your order for download.

MITSUBISHI ELECTRIC
COOLING & HEATING

CITYMULTI®



PURY-P** (T/Y) KMU

PRODUCT GUIDE

R2-SERIES VRF HEAT RECOVERY

Product Overview

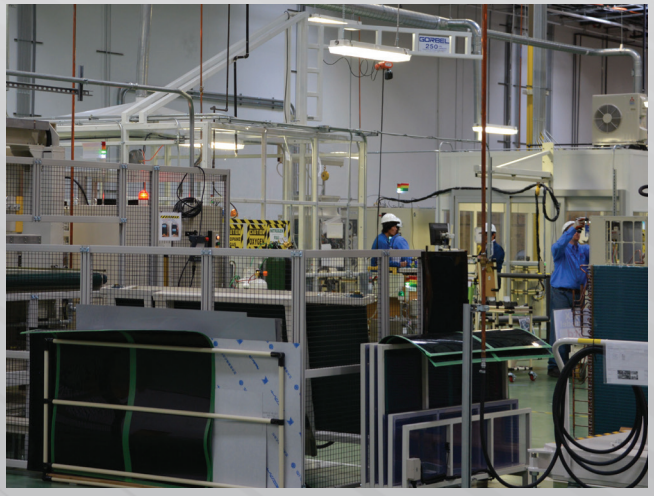
The R2-Series simultaneously cools and heats different zones within a building to provide energy-saving heat recovery operation. The world's only 2-pipe system captures energy through the BC controller that would otherwise be expelled outdoors. This captured energy is delivered to the appropriate zone(s) reducing the amount of energy required of the outdoor unit.

- INVERTER-driven compressor
- Tonnage range: 6-24 tons
- Voltage: 208V / 230V (T) and 460V (Y)
- Two pipe simultaneous operation
- Supports simultaneous operations at 14° F ambient conditions
- Long line lengths up to 3,116'
- Improved heating start up
- Quiet operation: 58 - 64 dB(A)
- Option to order units assembled in the USA.

ASSEMBLED IN USA



Brazing operations taking place on the CITY MULTI assembly line, located in Suwanee, Georgia.



Testing facilities on the CITY MULTI assembly line.

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PURY-P** (T/Y) KMU

Model Name		208V /230V	PURY-P72TKMU (-BS)	PURY-P96TKMU (-BS)	PURY-P120TKMU (-BS)	PURY-P144TKMU (-BS)
		460V	PURY-P72YKMU (-BS)	PURY-P96YKMU (-BS)	PURY-P120YKMU (-BS)	PURY-P144YKMU (-BS)
Power Source			208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity	72,000	96,000	120,000	144,000
	Heating	Btu/h Capacity	80,000	108,000	135,000	160,000
Electrical Supply	MCA	A	23 / 21 11	34 / 31 15	45 / 42 21	53 / 48 24
	Max Circuit Breaker Size	A	30 15	40 20	50 25	60 25
Fan	Type X Quantity		Propeller Fan x 1		Propeller Fan x 2	
	Airflow Rate	CFM	6,200		11,300	11,300
	External Static Pressure		Selectable; 0, 0.12 or 0.24"W.G.; factory set to 0"W.G.			
Compressor	Type X Quantity		INVERTER-driven Scroll Hermetic x 1			
	Operating Range		17% to 100%	16% to 100%	15% to 100%	
	Lubricant		MEL32			
Refrigerant	Type		R410A			
External Finish			Pre-coated galvanized steel sheet (Plus Powder Coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
Dimensions H x W x D	Height	In.	64-31/32			
	Width	In.	68-29/32			
	Depth	In.	29-5/32			
Net Weight		Pounds	503 534	538 574	715743	
Sound Pressure Level (Measured In Anechoic Room)		dB(A)	58.0		60.0	61.0
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)		Over-current protection			
	Fan Motor		Thermal switch			
Refrigerant Pipe Dimensions	Liquid (High Pressure)	In.	5/8	3/4		7/8
	Gas (Low Pressure)	In.	3/4	7/8		1-1/8
Indoor Unit Connectable	Total Capacity		50% to 150% of outdoor unit capacity			
	Model / Quantity		P06 - P96 / 1 to 18	P06 - P96 / 1 to 24	P06 - P96 / 1 to 30	P06 - P96 / 1 to 36
Operating Temperature Range	Cooling	D.B.	**Outdoor: 23° to 115° F			
	Heating	W.B.	Outdoor: -4° to 60° F			
Efficiency Ratings *2						
EER (Ducted/Non-Ducted) *2			13.9 / 15.5	12.2 / 13.6	11.7 / 12.2	11.7 / 12.7
IEER (Ducted/Non-Ducted) *2			21.1 / 22.1	19.7 / 20.9	18.6 / 20.8	18 / 20.9
COP (Ducted/Non-Ducted) *2			3.81 / 3.72	3.64 / 3.71	3.45 / 3.61	3.41 / 3.28
SCHE (Ducted/Non-Ducted) *2			23.6 / 24.5	17.4 / 23.5	16.8 / 19.7	18.2 / 20.2

Notes:
***1 Rating Conditions:**
Cooling | Indoor: 80˚ F (27˚ C) DB / 67˚ F (19˚ C) WB; Outdoor: 95˚ F (35˚ C) DB.
Heating | Indoor: 70˚ F (21˚ C) DB; Outdoor: 47˚ F (8˚ C) DB / 43˚ F (6˚ C) WB.
***2. Efficiency values based on AHRI 1230 test method**

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

-BS indicates Seacoast Protection option.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

PURY-P** (T/Y) KMU

Model Name		208V /230V		PURY-P168TSKMU (-BS) *2	PURY-P192TSKMU (-BS) *2	PURY-P216TSKMU (-BS) *2
				With 1 PURY-P72TKMU (-BS) and 1 PURY-P96TKMU-A (-BS) *3	With 2 PURY-P96TKMU (-BS) *3	With 1 PURY-P96TKMU (-BS) and 1 PURY-P120TKMU (-BS) *3
		460V	PURY-P144YSKMU (-BS) *2	PURY-P168YSKMU (-BS) *2	PURY-P192YSKMU (-BS) *2	PURY-P216YSKMU (-BS) *2
			With 2 PURY-P72YKMU (-BS) *3	With 1 PURY-P72YKMU (-BS) and 1 PURY-P96YKMU (-BS) *3	With 2 PURY-P96YKMU (-BS) *3	With 1 PURY-P96YKMU (-BS) and 1 PURY-P120YKMU (-BS) *3
Power Source			460V, 3-Phase, 60Hz	208V / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz		
Capacity (Nominal) *1	Cooling	Btu/h Capacity	144,000	168,000	192,000	216,000
	Heating	Btu/h Capacity	160,000	188,000	215,000	243,000
Fan	Type X Quantity		Refer to: PURY-P72YKMU (-BS)	Refer to: PURY-P72TKMU (-BS) / PURY-P96TKMU-A (-BS) PURY-P72YKMU (-BS) / PURY-P96YKMU (-BS)	Refer to: PURY-P96TKMU (-BS) PURY-P96YKMU (-BS)	Refer to: PURY-P96TKMU (-BS) / PURY-P120TKMU (-BS) PURY-P96YKMU (-BS) / PURY-P120YKMU (-BS)
	Airflow Rate	CFM				
	External Static Pressure					
Compressor	Type X Quantity					
	Operating Range		15% to 100%	7% to 100%	8% to 100%	
	Lubricant		Refer to: PURY-P72YKMU (-BS)	Refer to: PURY-P72TKMU (-BS) / PURY-P96TKMU (-BS) / PURY-P72YKMU (-BS) / PURY-P96YKMU (-BS)	Refer to: PURY-P96TKMU (-BS) / PURY-P96YKMU (-BS)	Refer to: PURY-P96TKMU (-BS) / PURY-P120TKMU (-BS) / PURY-P96YKMU (-BS) / PURY-P120YKMU (-BS)
Refrigerant	Type					
External Finish						
Dimensions H x W x D	Height	In.				
	Width	In.				
	Depth	In.				
Net Weight		Pounds				
Sound Pressure Level (Measured In Anechoic Room)		dB(A)	61	61.0		62.5
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)		Over-current protection			
	Fan Motor		Thermal switch			
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	7/8			1-1/8
	Liquid (High Pressure) (Brazed)	In.	1-1/8			
Indoor Unit Connectable	Total Capacity		50% to 150% of outdoor unit capacity			
	Model / Quantity		P06-P96 / 1 to 36	P06-P96 / 1 to 42	P06-P96 / 1 to 48	P06-P96 / 2 to 50 *4
Operating Temperature Range	Cooling	D.B.	**Outdoor: 23° to 115° F			
	Heating	W.B.	Outdoor: -4° to 60° F			
Efficiency Ratings *5						
EER (Ducted/Non-Ducted) *5			12 / 14.4	12.1 / 12.9	11.6 / 11.9	11.4 / 11.3
IEER (Ducted/Non-Ducted) *5			18.8 / 20.6	19.4 / 19.1	19.3 / 18.2	18.7 / 18.3
COP (Ducted/Non-Ducted) *5			3.54 / 3.65	3.63 / 3.52	3.64 / 3.47	3.54 / 3.43
SCHE (Ducted/Non-Ducted) *5			21.8/24.0	20 / 22.6	17.4 / 21.8	17.1 / 20.1

Notes:

***1 Rating Conditions:**
Cooling | Indoor: 80˚ F (27˚ C) DB / 67˚ F (19˚ C) WB; Outdoor: 95˚ F (35˚ C) DB.
Heating | Indoor: 70˚ F (21˚ C) DB; Outdoor: 47˚ F (8˚ C) DB / 43˚ F (6˚ C) WB.

***2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-P-T(Y)SKMU combined systems. Only models ending with same letter (-A or -U) can be twinned in accordance with the approved combinations registered with AHRI.**

***3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.**

***4 Maximum connectable number of branch pipes is 48.**

***5 Efficiency values based on AHRI 1230 test method**

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

NOTES: In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

-BS indicates Seacoast Protection option.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

PURY-P** (T/Y)SKMU

Model Name			208V /230V	PURY-P240TSKMU (-BS) *2	PURY-P264TKMU (-BS) *2	PURY-P288TSKMU (-BS) *2
				With 2 PURY-P120TKMU (-BS) *3	With 1 PURY-P120TKMU (-BS) and 1 PURY-P144TKMU (-BS) *3	With 2 PURY-P144TKMU (-BS) *3
			460V	PURY-P240YSKMU (-BS) *2	PURY-P264YKMU (-BS) *2	PURY-P288YSKMU (-BS) * *2
				With 2 PURY-P120YKMU (-BS) *3	With 1 PURY-P120YKMU (-BS)* and 1 PURY-P144YKMU (-BS) *3	With 2 PURY-P144YKMU (-BS) *3
Power Source				208 / 230V 3-Phase, 60Hz 460V, 3-Phase, 60Hz		
Capacity (Nominal) *1	Cooling	Btu/h Capacity		240,000	264,000	288,000
	Heating	Btu/h Capacity		270,000	295,000	320,000
Fan	Type X Quantity			Refer to: PURY-P120TKMU (-BS) PURY-P120YKMU (-BS)	Refer to: PURY-P120TKMU (-BS) / PURY-P144TKMU (-BS) PURY-P120YKMU (-BS) / PURY-P144YKMU (-BS)	Refer to: PURY-P144TKMU (-BS) PURY-P144YKMU (-BS)
	Airflow Rate	CFM				
	External Static Pressure					
Compressor	Type X Quantity					
	Operating Range			7% to 100%		
	Lubricant			Refer to: PURY-P120TKMU (-BS) PURY-P120YKMU (-BS)	Refer to: PURY-P120TKMU (-BS) / PURY-P144TKMU (-BS) PURY-P120YKMU (-BS) / PURY-P144YKMU (-BS)	Refer to: PURY-P144TKMU (-BS) PURY-P144YKMU (-BS)
Refrigerant	Type					
External Finish						
Dimensions H x W x D	Height	In.				
	Width	In.				
	Depth	In.				
Net Weight		Pounds				
Sound Pressure Level (Measured In Anechoic Room)		dB(A)				
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch		
	Inverter Circuit (Compressor / Fan)			Over-current protection		
	Fan Motor			Thermal switch		
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.		1-1/8		
	Liquid (High Pressure) (Brazed)	In.		1-3/8		
Indoor Unit Connectable	Total Capacity			50% to 150% of outdoor unit capacity		
	Model / Quantity			P06-P96 / 2 to 50 *4		
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 115° F		
	Heating	W.B.		Outdoor: -4° to 60° F		
Efficiency Ratings * 5						
EER (Ducted/Non-Ducted) *5				10.9 / 10.9	11.0 / 11.0	11.2 / 11.3
IEER (Ducted/Non-Ducted) *5				17.8 / 18.5	17.7 / 18.4	17.6 / 18.6
COP (Ducted/Non-Ducted) *5				3.38 / 3.42	3.4 / 3.25	3.41 / 3.20
SCHE (Ducted/Non-Ducted) *5				16.5 / 18.6	17.3 / 18.7	18.2 / 19

Notes:

***1 Rating Conditions:**
Cooling | Indoor: 80˚ F (27˚ C) DB / 67˚ F (19˚ C) WB; Outdoor: 95˚ F (35˚ C) DB.
Heating | Indoor: 70˚ F (21˚ C) DB; Outdoor: 47˚ F (8˚ C) DB / 43˚ F (6˚ C) WB.

***2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-P-T(Y)SKMU combined systems. Only models ending with same letter (-A or -U) can be twinned in accordance with the approved combinations registered with AHRI.**

***3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.**

***4 Maximum connectable no. of branch pipes is 48.**

***5 Efficiency values based on AHRI 1230 test method.**

*** 264 and 288 require use -HA, BC controller**

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

NOTES: In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

-BS indicates Seacoast Protection option.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

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MITSUBISHI ELECTRIC
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PRODUCT GUIDE

Y-SERIES VRF HEAT PUMP



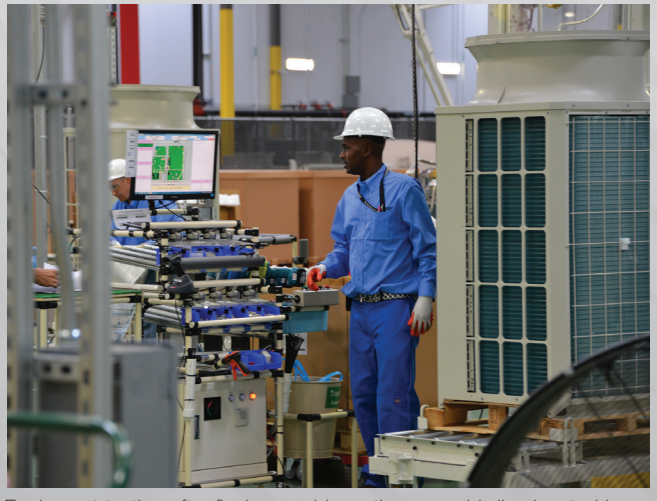
PUHY-P**(T,Y)KMU

Product Overview

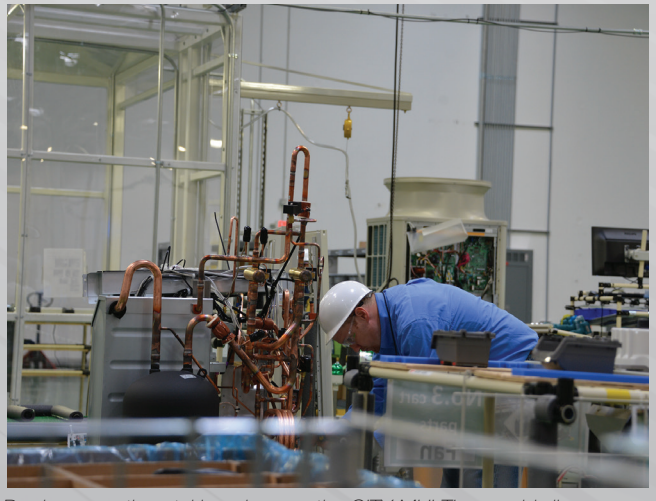
The Y-Series is a Variable Refrigerant Flow (VRF) system providing flexibility in zoning with the ability to connect up to 50 indoor units to one outdoor unit. INVERTER® technology, intelligent controls, efficient indoor unit design and long line lengths provide energy efficiency and installation capabilities unparalleled with conventional equipment.

- INVERTER-driven compressor
- Tonnage range: 6-30 tons
- Voltage: 208V / 230V (T) and 460V (Y)
- Cools or heats up to 50 individual zones
- Maximum operating sound: 58 - 65 dB(A)
- Cooling to -10°F with optional low ambient kit
- Improved heating start up
- Extended temperature range
- Extended pipe length:
  - 1st branch to farthest indoor unit – up to 295'
  - Vertical height between indoor units – up to 98'
- Option to order units assembled in the USA

ASSEMBLED IN USA



Equipment testing after final assembly on the assembly line located in Suwanee, Georgia.



Brazing operations taking place on the CITY MULTI assembly line.

Form No. PLG_YSeries_02.14. OA | Printed In The U.S.A

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PUHY-P**(T/Y)KMU

Model Name			208V/ 230V	PUHY-P72TKMU-(-BS)	PUHY-P96TKMU-(-BS)	PUHY-P120TKMU-(-BS)	PUHY-P144TKMU-(-BS)
			460V	PUHY-P72YKMU (-BS)	PUHY-P96YKMU (-BS)	PUHY-P120YKMU (-BS)	PUHY-P144YKMU (-BS)
Power Source				208 / 230V, 3-Phase, 60Hz / 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity		72,000	96,000	120,000	144,000
	Heating	Btu/h Capacity		80,000	108,000	135,000	160,000
Electrical Supply	MCA	A		25 / 23 / 12	34 / 31 / 15	45 / 42 / 20	53 / 49 / 24
	Max Circuit Breaker Size	A		30 / 15	40 / 20	50 / 25	60 / 25
Fan	Type X Quantity			Propeller Fan x 1		Propeller Fan x 2	
	Airflow Rate	CFM		6,200		11,300	
	External Static Pressure			Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.			
Compressor	Type X Quantity			INVERTER-driven Scroll Hermetic x 1			
	Operating Range			15% to 100%	16% to 100%	15% to 100%	14% to 100%
	Lubricant			MEL32			
Refrigerant	Type			R410A			
External Finish				Pre-coated galvanized steel sheet (Plus Powder Coating for -BS type) <MUNSELL 5Y 8/1 or Similar>			
Dimensions H X W X D	Height	In.		64-31/32			
	Width	In.		36-1/4	48-1/16	68-29/32	
	Depth	In.		29-5/32"			
Net Weight		Pounds		430 / 463	532 / 558	697 / 726	
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		58.0	58.0	60.0	61.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)			Over-current protection			
	Fan Motor			Thermal switch			
Refrigerant Pipe Dimensions	Liquid (High Pressure)	In.		3/8	3/8 (1/2", length to first joint≥ 295')	3/8 (1/2", length to first joint≥ 131')	1/2
	Gas (Low Pressure)	In.		7/8		1-1/8	
Indoor Unit Connectable	Total Capacity			50% to 130% of outdoor unit capacity			
	Model / Quantity			P06 - P96 / 1 to 15	P06 - P96 / 1 to 20	P06 - P96 / 1 to 26	P06 - P96 / 1 to 31
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 115° F			
	Heating	W.B.		Outdoor: -4° to 60° F			
System Efficiencies *2							
EER (Ducted/Non-Ducted) *2				13.0 / 14.2	12.6 / 13.7	12.5 / 12.7	11.6 / 11.8
IEER (Ducted/Non-Ducted) *2				19.8 / 21.3	19.7 / 20.7	19.1 / 19.1	19.3 / 20.2
COP (Ducted/Non-Ducted) *2				3.83 / 4.19	3.95 / 4.22	3.66 / 3.83	3.56 / 3.72

Notes:
***1 Rating Conditions:**
Cooling | Indoor: 80˚ F (27˚ C) DB / 67˚ F (19˚ C) WB; Outdoor: 95˚ F (35˚ C) DB.
Heating | Indoor: 70˚ F (21˚ C) DB; Outdoor: 47˚ F (8˚ C) DB / 43˚ F (6˚ C) WB.
***2 Efficiency values based on AHRI 1230 test method.**

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

-BS indicates Seacoast Protection option.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

PUHY-P**(T/Y)KMU

Model Name			208V/ 230V		PUHY-P168TSKMU (-BS) *2	PUHY-P192TSKMU (-BS) *2	PUHY-P216TSKMU (-BS) *2	PUHY-P240TSKMU (-BS) *2
					With 1 PUHY-P72TKMU (-BS) and 1 PUHY-P96TKMU (-BS) *3	With 1 PUHY-P72TKMU (-BS) and 1 PUHY-P120TKMU (-BS)	With 1 PUHY-P96TKMU (-BS) and 1 PUHY-P120TKMU (-BS) *3	With 2 PUHY-P120TKMU (-BS) *3
			460V	PUHY-P144YSKMU (-BS) *2	PUHY-P168YSKMU (-BS) *2	PUHY-P192YSKMU (-BS) *2	PUHY-P216YSKMU (-BS) *2	PUHY-P240YSKMU (-BS) *2
				With 2 PUHY-P72YKMU (-BS) *3	With 1 PUHY-P72YKMU (-BS) and 1 PUHY-P96YKMU (-BS) *3	With 1 PUHY-P72YKMU (-BS) and 1 PUHYP120YKMU-A (-BS) *3	With 1 PUHY-P96YKMU (-BS) and 1 PUHY-P120YKMU (-BS) *3	With 2 PUHY-P120YKMU (-BS) *3
Power Source				460V, 3-Phase, 60Hz	208 / 230V, 3-Phase, 60Hz / 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity		144,000	168,000	192,000	216,000	240,000
	Heating	Btu/h Capacity		160,000	188,000	215,000	243,000	270,000
Fan	Type X Quantity			Refer to: PUHY-P72YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P120TKMU (-BS) PUHY-P120YKMU (-BS)
	Airflow Rate	CFM						
	External Static Pressure							
Compressor	Type X Quantity							
	Operating Range			9% to 100%	6% to 100%	6% to 100%	8% to 100%	8% to 100%
	Lubricant							
Refrigerant	Type							
External Finish								
Dimensions H X W X D	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		61.0	61.0	62.5	62.5	63.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
	Fan Motor			Thermal switch				
Refrigerant Pipe Dimensions	Liquid (High Pressure)	In.		1/2	5/8			
	Gas (Low Pressure)	In.		1-1/8				
Indoor Unit Connectable	Total Capacity			50% to 130% of outdoor unit capacity				
	Model / Quantity			P06 - P96 / 1 to 31	P06 - P96 / 1 to 36	P06 - P96 / 1 to 41	P06 - P96 / 2 to 46	P06 - P96 / 2 to 50
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23 to 115° F				
	Heating	W.B.		Outdoor: -4 to 60° F				
System Efficiencies *4								
EER (Ducted/Non-Ducted) *4				12.8 / 13.2	12.6 / 12.9	12.4 / 12.5	12.3 / 12.3	12.1 / 12.0
IEER (Ducted/Non-Ducted) *4				19.3 / 20.3	19.6 / 19.7	18.9 / 19.1	18.9 / 18.6	18.6 / 18.1
COP (Ducted/Non-Ducted) *4				3.79 / 3.95	3.78 / 3.83	3.63 / 3.61	3.65 / 3.56	3.55 / 3.53

Notes:

***1 Rating Conditions:**
Cooling | Indoor: 80˚ F (27˚ C) DB / 67˚ F (19˚ C) WB; Outdoor: 95˚ F (35˚ C) DB.
Heating | Indoor: 70˚ F (21˚ C) DB; Outdoor: 47˚ F (8˚ C) DB / 43˚ F (6˚ C) WB.

***2 Twinning Kit is required for combining two or three individual outdoor units in the field for PUHY-P(T)YSKMU combined systems. Only models ending with same letter (-A or -U) can be twinned in accordance with the approved combinations registered with AHRI.**

***3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.**

***4 Efficiency values based on AHRI 1230 test method.**

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

-BS indicates Seacoast Protection option.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

PUHY-P**(T/Y)KMU

Model Name			208V/230V	PUHY-P264TSKMU (-BS) *2 With 2 PUHY-P72TKMU (-BS) and 1 PUHY-P120TKMU (-BS) *3	PUHY-P288TSKMU (-BS) *2 With PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) *3	PUHY-P312TSKMU (-BS) *2 With 1 PUHY-P72TKMU (-BS) and 2 PUHY-P120TKMU (-BS) *3	PUHY-P336TSKMU (-BS) *2 With 1 PUHY-P96TKMU (-BS) and 2 PUHY-P120TKMU (-BS) *3	PUHY-P360TSKMU (-BS) *2 With 3 PUHY-P120TKMU (-BS) *3
			460V	PUHY-P264YSKMU (-BS) *2 With 2 PUHY-P72YKMU (-BS) and 1 PUHY-P120YKMU (-BS) *3	PUHY-P288YSKMU (-BS) *2 With PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS) *3	PUHY-P312YSKMU (-BS) *2 With 1 PUHY-P72YKMU (-BS) and 2 PUHY-P120YKMU (-BS) *3	PUHY-P336YSKMU (-BS) *2 With 1 PUHY-P96YKMU (-BS) and 2 PUHY-P120YKMU (-BS) *3	PUHY-P360YSKMU (-BS) *2 With 3 PUHY-P120YKMU (-BS) *3
Power Source				208 / 230V, 3-Phase, 60Hz / 208/230v				
Capacity (Nominal) *1	Cooling	Btu/h Capacity		264,000	288,000	312,000	336,000	360,000
	Heating	Btu/h Capacity		295,000	323,000	350,000	378,000	405,000
Fan	Type X Quantity			Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P120TKMU (-BS) PUHY-P120YKMU (-BS)
	Airflow Rate	CFM						
	External Static Pressure							
Compressor	Type X Quantity							
	Operating Range			5% to 100%	4% to 100%	4% to 100%	5% to 100%	5% to 100%
	Crankcase Heater	W		Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P120TKMU (-BS) PUHY-P120YKMU (-BS)
	Lubricant							
Refrigerant	Type							
External Finish								
Dimensions H X W X D	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		63.5	64.0	64.5		65.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
	Fan Motor			Thermal switch				
Refrigerant Pipe Dimensions	Liquid (High Pressure)	In.		3/4				
	Gas (Low Pressure)	In.		1-3/8			1-5/8	
Indoor Unit Connectable	Total Capacity			50 to 130% of outdoor unit capacity				
	Model / Quantity			P06 - P96 / 2 to 50				
Operating Temperature Range	Cooling	D.B.		*Outdoor: 23° to 115° F				
	Heating	W.B.		Outdoor: -4° to 60° F				
System Efficiencies *4								
EER (Ducted/Non-Ducted) *4				12.5 / 12.5	12.4 / 12.4	12.1 / 12.1	11.9 / 12.0	11.7 / 11.8
IEER (Ducted/Non-Ducted) *4				19.0 / 18.7	19.0 / 18.7	18.4 / 18.1	18.2 / 17.8	17.8 / 17.2
COP (Ducted/Non-Ducted) *4				3.68 / 3.6	3.68 / 3.59	3.54 / 3.45	3.5 / 3.36	3.39 / 3.22

Notes:

***1 Rating Conditions:**
Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB; Outdoor: 95° F (35° C) DB.
Heating | Indoor: 70° F (21° C) DB; Outdoor: 47° F (8° C) DB / 43° F (6° C) WB.

***2 Twinning Kit is required for combining two or three individual outdoor units in the field for PUHY-P(T)YSKMU combined systems. Only models ending with same letter (-A or -U) can be twinned in accordance with the approved combinations registered with AHRI.**

***3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.**

***4 Efficiency values based on AHRI 1230 test method.**

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

-BS indicates Seacoast Protection option.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

© 2015 Mitsubishi Electric US, Inc.

9. Federal Register Listing

Refer to the pages following this doucment for a copy of the federal regsiter.

2014. This process is conducted in accordance with 5 CFR 1320.10.

ADDRESSES: Written comments and/or suggestions regarding the item(s) contained in this notice, especially regarding the estimated public burden and associated response time, must be directed to the OMB USCIS Desk Officer via email at *oira_submission@omb.eop.gov.* Comments may also be submitted via fax at (202) 395–5806. All submissions received must include the agency name and the OMB Control Number 1615–0090.

You may wish to consider limiting the amount of personal information that you provide in any voluntary submission you make. For additional information please read the Privacy Act notice that is available via the link in the footer of *http://www.regulations.gov.*

SUPPLEMENTARY INFORMATION:

Comments:

Note: The address listed in this notice should only be used to submit comments concerning this information collection. Please do not submit requests for individual case status inquiries to this address. If you are seeking information about the status of your individual case, please check ''My Case Status'' online at: *https://egov.uscis.gov/cris/Dashboard.do,* or call the USCIS National Customer Service Center at 1–800–375–5283.

Written comments and suggestions from the public and affected agencies should address one or more of the following four points:

(1) Evaluate whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility;

(2) Evaluate the accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used;

(3) Enhance the quality, utility, and clarity of the information to be collected; and

(4) Minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses.

Overview of this Information Collection:

(1) *Type of Information Collection Request:* Extension, Without Change, of a Currently Approved Collection.

(2) *Title of the Form/Collection:* Application for Status as a Temporary Resident under Section 245A of the INA.

(3) *Agency form number, if any, and the applicable component of the DHS sponsoring the collection:* I–687; I–687WS; USCIS.

(4) *Affected public who will be asked or required to respond, as well as a brief abstract: Primary:* Individuals or households. The information collection on Form I–687 is required to verify the applicant's eligibility for temporary status, and if the applicant is deemed eligible, to grant the benefit sought.

(5) *An estimate of the total number of respondents and the amount of time estimated for an average respondent to respond:* The estimated total number of respondents for the information collection I–687 and I–687WS combined is 30 and the estimated hour burden per response is 1.167 hours. For the biometric collection that is a part of this information collection, the estimated total number of respondents is 30 and the estimated hour per response is 1.167 hours.

(6) *An estimate of the total public burden (in hours) associated with the collection:* The total estimated burden hour associated with this information collection is 70 hours.

If you need a copy of the information collection instrument with supplementary documents, or need additional information, please visit *http://www.regulations.gov.* We may also be contacted at: USCIS, Office of Policy and Strategy, Regulatory Coordination Division, 20 Massachusetts Avenue NW., Washington, DC 20529–2134; Telephone 202–272–8377.

Dated: November 4, 2014.

Laura Dawkins,

Chief, Regulatory Coordination Division, Office of Policy and Strategy, U.S. Citizenship and Immigration Services, Department of Homeland Security.

[FR Doc. 2014–26925 Filed 11–13–14; 8:45 am]

BILLING CODE 9111–97–P

DEPARTMENT OF HOMELAND SECURITY

U.S. Customs and Border Protection

Notice of Issuance of Final Determination Concerning Outdoor Unit

AGENCY: U.S. Customs and Border Protection, Department of Homeland Security.

ACTION: Notice of final determination.

SUMMARY: This document provides notice that U.S. Customs and Border Protection (''CBP'') has issued a final determination concerning the country of origin of Outdoor Units used in HVAC systems. Based upon the facts presented, CBP has concluded in the final determination that the U.S. is the country of origin of the Outdoor Units for purposes of U.S. Government procurement and country of origin marking.

DATES: The final determination was issued on November 7, 2014. A copy of the final determination is attached. Any party-at-interest, as defined in 19 CFR 177.22(d), may seek judicial review of this final determination on or before December 15, 2014.

FOR FURTHER INFORMATION CONTACT: Karen S. Greene, Valuation and Special Programs Branch: (202) 325–0041.

SUPPLEMENTARY INFORMATION: Notice is hereby given that on November 7, 2014, pursuant to subpart B of Part 177, Customs and Border Protection Regulations (19 CFR Part 177, subpart B), CBP issued a final determination concerning the country of origin of Outdoor Units, which may be offered to the U.S. Government under an undesignated government procurement contract. This final determination, in HQ H248850, was issued at the request of Mitsubishi Electric US Inc., under procedures set forth at 19 CFR Part 177, subpart B, which implements Title III of the Trade Agreements Act of 1979, as amended (19 U.S.C. 2511–18). In the final determination CBP concluded that, based upon the facts presented, the Outdoor Units were substantially transformed in the U.S. such that the U.S. is the country of origin of the Outdoor Units for purposes of U.S. Government procurement and country of origin marking.

Section 177.29, CBP Regulations (19 CFR 177.29), provides that a notice of final determination shall be published in the **Federal Register** within 60 days of the date the final determination is issued. Section 177.30, CBP Regulations (19 CFR 177.30), provides that any party-at-interest, as defined in 19 CFR 177.22(d), may seek judicial review of a final determination within 30 days of publication of such determination in the **Federal Register**.

Dated: November 7, 2014.

Glen E. Vereb,

Acting Executive Director, Regulations and Rulings, Office of International Trade.

Attachment

HQ H248850

November 7, 2014

OT:RR:CTF:VS H248850 KSG

Stuart P. Seidel, Esq.
Baker & McKenzie LLP
815 Connecticut Avenue NW.

Washington, DC 20006–4078

RE: Government Procurement; Country of Origin of Outdoor Unit of CITY MULTI VRF System; substantial transformation

Dear Mr. Seidel:

This is in response to your letter dated December 13, 2013, and additional submission and information dated May 12 and October 31, 2014, requesting a final determination on behalf of Mitsubishi Electric US, Inc. (''Mitsubishi''), pursuant to subpart B of part 177 of the U.S. Customs and Border Protection (''CBP'') Regulations (19 CFR Part 177). Under these regulations, which implement Title III of the Trade Agreements Act of 1979 (''TAA'') as amended (19 U.S.C. 2511 et seq.), CBP issues country of origin advisory rulings and final determinations as to whether an article is or would be a product of a designated country or instrumentality for the purposes of granting waivers of certain ''Buy American'' restrictions in U.S. law or practice for products offered for sale to the U.S. Government.

The final determination concerns the country of origin of an Outdoor Unit for a CITY MULTI Variable Refrigerant Flow (''VRF'') multi-split heating, ventilation and air conditioning system (''HVAC System''). We note that as a U.S. importer, Mitsubishi is a party-at-interest within the meaning of 19 CFR 177.22(d)(1) and is entitled to request this final determination. A conference was held on this matter on April 8, 2014.

FACTS:

The HVAC System is comprised of Outdoor Units; Indoor Units; Branch Circuit (BC) Controllers; system controllers; and vertical air handlers. This final determination pertains to the Outdoor Units of the system. You listed various types of Outdoor Units, including the R2 Series, the Y Series, the H2i hyper–Heat Series, the WY Series, and the WR2 Series.

In the U.S., the base from Japan is unpacked. The base pan contains the compressor and accumulator. An appropriate flat heat exchanger (HEX) with aluminum fins and copper tubing and copper headers is selected for the particular Outdoor Unit and the HEX is moved with a mechanical lift to coil bending equipment. The HEX is placed in coil bending equipment to form the coil with two 90 degree bends. The HEX is then removed from the bender and positioned on the base pan. Some Outdoor Units utilize two coils and each must be formed before being placed on the unit base pan. The refrigerant tubing from the headers of the HEX is connected to the refrigerant tubing on the unit base connecting compressors, reversing valves, the accumulator and other components depending on the model type. The tubing is filled with nitrogen. The six to ten connections between the refrigerant tubing from the headers on the HEX are brazed to the refrigerant tubing on the base unit. The unit is moved into a leak test chamber to test for leaks. Photographs which show the complex machinery and segments involved in the HEX bending and brazing processes were submitted.

Although there are various types of Outdoor Units, you state that in the U.S., the fan motor, fan, fan-motor mount, unit top panel, fan orifice, and fan guard cover are installed onto the unit base. The vacuum pump is also attached to the unit process tube. Next, an appropriate control box is placed into the programming fixture. The compressor, outdoor fan motor, reversing valve, pressure switches and sensors are wired to the appropriate location in the control box. Software is loaded onto the printed circuit board (PCB) which separates the PCB specification for Y Series and R2 Series Outdoor Units. It is stated that the software used for the Outdoor Unit was developed in the U.S.

Various tests are performed to ensure the Outdoor Unit functions. You have provided the costs of the various materials and labor used to produce the Outdoor Units in Japan and the U.S.

The mechanical contractor brings all the components of the system together to install them as laid out by the design engineer. The Outdoor Unit itself is ground or roof mounted and is connected to the BC Controller.

ISSUE:

What is the country of origin of the Outdoor Unit for U.S. Government procurement and country of origin marking.

LAW AND ANALYSIS:

Pursuant to subpart B of part 177, 19 CFR 177.21 *et seq.,* which implements Title III of the Trade Agreements Act of 1979, as amended (19 U.S.C. 2511 *et seq.*), CBP issues country of origin advisory rulings and final determinations as to whether an article is or would be a product of a designated country or instrumentality for the purposes of granting waivers of certain ''Buy American'' restrictions in U.S. law or practice for products offered for sale to the U.S. Government.

Under the rule of origin set forth under 19 U.S.C. 2518(4)(B):

An article is a product of a country or instrumentality only if (i) it is wholly the growth, product, or manufacture of that country or instrumentality, or (ii) in the case of an article which consists in whole or in part of materials from another country or instrumentality, it has been substantially transformed into a new and different article of commerce with a name, character, or use distinct from that of the article or articles from which it was so transformed.

See also 19 CFR 177.22(a).

In rendering advisory rulings and final determinations for purposes of U.S. government procurement, CBP applies the provisions of subpart B of Part 177 consistent with the Federal Acquisition Regulations. *See* 19 CFR 177.21. In this regard, CBP recognizes that the Federal Acquisition Regulations restrict the U.S. Government's purchase of products to U.S.-made or designated country end products for acquisitions subject to the TAA. *See* 48 CFR 25.403(c)(1). The Federal Acquisition Regulations define ''U.S.-made end product'' as:

. . .an article that is mined, produced, or manufactured in the United States or that is substantially transformed in the United States into a new and different article of commerce with name, character, or use distinct from that of the article or articles from which it was transformed.

48 CFR 25.003.

In order to determine whether a substantial transformation occurs when components of various origins are assembled into completed products, CBP considers the totality of the circumstances and makes such determinations on a case-by-case basis. The country of origin of the item's components, extent of the processing that occurs within a country, and whether such processing renders a product with a new name, character, and use are primary considerations in such cases. Additionally, factors such as the resources expended on product design and development, the extent and nature of post-assembly inspection and testing procedures, and the degree of skill required during the manufacturing process may be relevant when determining whether a substantial transformation has occurred. No one factor is determinative. The same standard is applicable to determinations of the country of origin for marking purposes under 19 U.S.C. 1304.

In determining whether the combining of parts or materials constitutes a substantial transformation, the determinative issue is the extent of operations performed and whether the parts lose their identity and become an integral part of the new article. *Belcrest Linens v. United States,* 573 F. Supp. 1149 (CIT 1983), *aff'd* 741 F. 2d 1368 (Fed. Cir. 1984). Assembly operations that are minimal or simple, as opposed to complex or meaningful, will generally not result in a substantial transformation. In *Carlson Furniture Industries v. United States,* 65 Cust. Ct 474 (1970), the U.S. Customs Court (predecessor to the U.S. Court of International Trade), held that the assembly of finished and unfinished chair parts into finished chairs in the U.S. was a substantial transformation. The court did acknowledge that more than the assembly of chairs took place; the legs were cut to length and in some cases, the seats were upholstered.

It is your position that the country of origin of the Outdoor Unit is the U.S. because the final assembly in the U.S. is complex.

In New York Ruling Letter (NYRL) 808608 dated April 13, 1995, Customs considered whether imported heat exchanger cores were required to be individually marked with their country of origin if they were later processed in the U.S. by a U.S. manufacturer. The heat exchanger core was a heat exchanger subassembly constructed of 25 steel tubes with attached aluminum fins. The tubes were evacuated and filled with a small amount of water which made them into ''heat pipes'' (a two-phase heat transfer system). The final subassembly had a protective aluminum housing that surrounded the fins. After importation into the U.S., two fans, a wire harness and a gasket were installed on the heat exchanger core. The completed unit was then marketed as a cabinet cooler. It was determined that the imported heat exchanger cores were substantially transformed as a result of the U.S. processing, and therefore the U.S. manufacturer was the ultimate purchaser under 19 CFR 134.35.

We find that the processing in the U.S. of the Outdoor Unit is similar to the processes considered in NYRL 808608. Similar to NYRL 808608, the HEX is bent and assembled with the fan motor and vacuum pump to complete the Outdoor Unit. Substantial processing is performed in the U.S., including bending of the HEX, brazing of the various connections, and installation of the control box which includes software developed in the U.S. to complete the Outdoor Unit. We find that these are complex operations requiring skilled workers. Based on the totality of the circumstances, we find that the Outdoor Units are substantially transformed as a result of the processing in the U.S. Accordingly, we find that the Outdoor Unit may be considered a product of the U.S. for purposes of U.S. Government procurement.

Section 304 of the Tariff Act of 1930, as amended (19 U.S.C. 1304), provides that unless excepted, every article of foreign origin imported into the U.S. shall be marked in a conspicuous place as legibly, indelibly, and permanently as the nature of the article (or its container) will permit, in such a manner as to indicate to the ultimate purchaser in the U.S. the English name of the country of origin of the article. Congressional intent in enacting 19 U.S.C. 1304 was ''that the ultimate purchaser should be able to know by an inspection of the marking on the imported goods the country of which the goods is the product. The evident purpose is to mark the goods so that at the time of purchase the ultimate purchaser may, by knowing where the goods were produced, be able to buy or refuse to buy them, if such marking should influence his will.'' *United States v. Friedlaender & Co.,* 27 C.C.P.A. 297 at 302; C.A.D. 104 (1940).

Part 134, Customs Regulations (19 CFR Part 134), implements the country of origin marking requirements and the exceptions of 19 U.S.C. 1304. Section 134.1(b), Customs Regulations (19 CFR 134.1(b)), defines ''country of origin'' as the country of manufacture, production or growth of any article of foreign origin entering the U.S. Further work or material added to an article in another country must effect a substantial transformation in order to render such other country the ''country of origin'' within the meaning of the marking laws and regulations. The case of *United States v. Gibson-Thomsen Co., Inc.,* 27 C.C.P.A. 267 (C.A.D. 98) (1940), provides that an article used in manufacture which results in an article having a name, character or use differing from that of the constituent article will be considered substantially transformed. In such circumstances the U.S. manufacturer is the ultimate purchaser. The imported article is excepted from individual marking and only the outermost container is required to be marked. *See* 19 CFR 134.35.

As Mitsubishi Electric US, Inc. will be considered the ultimate purchaser of the Outdoor Units, the imported components used in the manufacture of the Outdoor Units may be excepted from country of origin marking, provided their outer containers in which they are imported are marked with their country of origin pursuant to 19 U.S.C. 1304(a)(3)(D).

HOLDING:

Based on the facts provided, the Outdoor Unit is considered a product of the U.S. for U.S. Government procurement purposes, and Mitsubishi Electric US, Inc. will be considered the ultimate purchaser of the Outdoor Unit.

Notice of this final determination will be given in the **Federal Register**, as required by 19 CFR 177.29. Any party-at-interest other than the party which requested this final determination may request, pursuant to 19 CFR 177.31, that CBP reexamine the matter a new and issue a new final determination. Pursuant to 19 CFR 177.30, any party-at-interest may, within 30 days after publication of the **Federal Register** notice referenced above, seek judicial review of this final determination before the Court of International Trade.

Sincerely,

Glen E. Vereb

Acting Executive Director, Regulations and Rulings Office of International Trade

[FR Doc. 2014–26955 Filed 11–13–14; 8:45 am]

BILLING CODE 9111–14–P

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

[Docket No. FR–5750–N–46]

Federal Property Suitable as Facilities To Assist the Homeless

AGENCY: Office of the Assistant Secretary for Community Planning and Development, HUD.

ACTION: Notice.

SUMMARY: This Notice identifies unutilized, underutilized, excess, and surplus Federal property reviewed by HUD for suitability for use to assist the homeless.

FOR FURTHER INFORMATION CONTACT: Juanita Perry, Department of Housing and Urban Development, 451 Seventh Street SW., Room 7266, Washington, DC 20410; telephone (202) 402–3970; TTY number for the hearing- and speech-impaired (202) 708–2565 (these telephone numbers are not toll-free), or call the toll-free Title V information line at 800–927–7588.

SUPPLEMENTARY INFORMATION: In accordance with 24 CFR part 581 and section 501 of the Stewart B. McKinney Homeless Assistance Act (42 U.S.C. 11411), as amended, HUD is publishing this Notice to identify Federal buildings and other real property that HUD has reviewed for suitability for use to assist the homeless. The properties were reviewed using information provided to HUD by Federal landholding agencies regarding unutilized and underutilized buildings and real property controlled by such agencies or by GSA regarding its inventory of excess or surplus Federal property. This Notice is also published in order to comply with the December 12, 1988 Court Order in *National Coalition for the Homeless* v. *Veterans Administration,* No. 88–2503–OG (D.D.C.).

Properties reviewed are listed in this Notice according to the following categories: Suitable/available, suitable/unavailable, and suitable/to be excess, and unsuitable. The properties listed in the three suitable categories have been reviewed by the landholding agencies, and each agency has transmitted to HUD: (1) Its intention to make the property available for use to assist the homeless, (2) its intention to declare the property excess to the agency's needs, or (3) a statement of the reasons that the property cannot be declared excess or made available for use as facilities to assist the homeless.

Properties listed as suitable/available will be available exclusively for homeless use for a period of 60 days from the date of this Notice. Where property is described as for ''off-site use only'' recipients of the property will be required to relocate the building to their own site at their own expense. Homeless assistance providers interested in any such property should send a written expression of interest to HHS, addressed to Theresa Ritta, Ms. Theresa M. Ritta, Chief Real Property Branch, the Department of Health and Human Services, Room 5B–17, Parklawn Building, 5600 Fishers Lane, Rockville, MD 20857, (301) 443–6672 (This is not a toll-free number.) HHS will mail to the interested provider an application packet, which will include instructions for completing the application. In order to maximize the opportunity to utilize a suitable property, providers should submit their written expressions of interest as soon as possible. For complete details concerning the processing of applications, the reader is encouraged to refer to the interim rule governing this program, 24 CFR part 581.

For properties listed as suitable/to be excess, that property may, if subsequently accepted as excess by GSA, be made available for use by the homeless in accordance with applicable law, subject to screening for other Federal use. At the appropriate time, HUD will publish the property in a Notice showing it as either suitable/available or suitable/unavailable.

For properties listed as suitable/unavailable, the landholding agency has decided that the property cannot be declared excess or made available for use to assist the homeless, and the property will not be available.