



SERVICE AND APPLICATION NOTES

100007
May 22, 2020

Alternate Quantum Aluminum Replacement Coil for Air Handlers

APPLICABLE UNITS:

CBX27UH, CBX32M, CBX32MV & CBX40UHV Elite and Dave Lennox Signature Collection Air Handlers with Copper Coils

PRODUCT UPDATE:

Lennox has updated the warranty system to allow the substitution of Quantum Aluminum Coils in place of the copper coils for applicable Elite and Dave Lennox Signature Collection (DLSC) air handlers. For a warranty replacement, the option of using a Quantum Aluminum Coil in place of the copper coil for most CBX27UH, CBX32M, CBX32MV and CBX40UHV air handlers is now available. Tables 1 and 2 in this Service and Application Note list the Quantum Coil substitutions for copper coils used in each of these air handlers.

The Quantum aluminum replacement coil will provide a more robust option in harsh indoor environments. The Quantum Coil was added as an alternative option in the OEM repair parts section of LennoxPros (Product Zone) and the warranty system has been updated to automatically process the Quantum coil as an acceptable replacement. Not all applications can utilize a Quantum Coil replacement, see Quantum coil replacement guidelines and the replacement coil tables in this document.

Table of Contents

Guidelines for Quantum Coil Replacement and Application Guidelines.....	2
Alternate Quantum Aluminum Coil Listing for Air Handlers on OEM Parts – LennoxPros	3
Alternate Quantum Aluminum Coil Table 1 for Air Conditioning Outdoor Units	5
Alternate Quantum Aluminum Coil Table 2 for Heat Pump Outdoor Units	6
Replacement Quantum Coil Assembly and Installation Packet.....	13
Charging Systems Equipped with Replacement Quantum Aluminum Coil	14
Updated Heat Pump Charging Label Example – 14HPX	15

Guidelines for Quantum Coil Replacement and Application Guidelines

Elite and DLSC Copper Coil Air Handlers matched with Air Conditioners (straight cool applications):

Any of the air handlers, with available Quantum replacement coils, that are matched with air conditioners (straight cool non-heat pump applications) can utilize the Quantum Coil as a replacement. The system will maintain performance, and the refrigerant charging instructions provided with the outdoor unit should be followed. Use Table 1 to select the appropriate replacement coil.

Elite and DLSC Copper Coil Air Handlers matched with Heat Pumps:

The Quantum replacement coil has reduced internal volume when compared to the existing copper coil which can create a coil volume imbalance in the system. This change in coil volume means not all heat pump applications can utilize the Quantum Coil. Heat pumps that can use the Quantum replacement coil will require using the updated refrigerant charge instructions. If the coil is replaced and the coil volume imbalance is too great or the new charge instructions are not followed, the system will not perform as expected and will likely experience high pressure switch trips in mild weather heating situations. The Quantum replacement coil is provided with updated refrigerant charge labels, coil cleaning instructions and labels to communicate that the air handler has been updated with a Quantum Coil.

Table 2 provides a list of heat pump system matches that are suitable for Quantum coil replacement. Heat pumps not listed on the heat pump matching charts are not a candidate for a Quantum aluminum coil replacement and will need to use the copper replacement coil.

Elite and DLSC Copper Coil Air Handlers without Quantum Coil replacement options:

CBX32M – 018/024, CBX32MV – 018/024, and CBX32MV-068 do not have a Quantum Coil replacement option available. Any coil replacements for these air handlers will have to continue to use a copper replacement coil. There are currently no plans to develop a replacement aluminum coil for these models.

Merit Air Handlers with Copper Coils:

Currently no options are available to replace the copper coil in Merit CBX25 or CBX26 air handlers with a Quantum aluminum coil. The Quantum coils developed for the CBA25 are of different physical sizes due to dimension changes made in the CBA25 air handlers to accommodate smaller footprints and will not fit in the CBX25 or CBX26 air handlers. Any coil replacements for these air handlers will have to continue to use a copper replacement coil.

LennoxPros OEM Repair Parts:

The CBX27, CBX32M, CBX32MV and CBX40UHV repair parts listing under OEM Repair Parts on LennoxPros has been updated with a new Category titled "ALTERNATE ALUMINUM COIL". The alternate Quantum Aluminum for the air handler is listed in this new category. The standard copper coil will continue to be listed in the Cooling Parts Category for systems that require a copper coil. See OEM Repair Parts Example below.

Air handlers installed with a heat pump must be a match with the Quantum replacement coil. See Table 2 for the heat pump system matches that are suitable for Quantum Coil replacement.

Alternate Quantum Aluminum Coil Listing for Air Handlers on OEM Parts – LennoxPros

OEM Repair Parts in LennoxPros – New Alternate Aluminum Coil Category Example

OEM Repair Parts | LennoxPRO: X

https://www.lennoxpros.com/partner-resources/a/ 80%

LENNOX Pros.com Showing availability for 75080-2254 | (change) Search by keyword, part #, model #, or cat #

Menu Quick Order (1) Cart (0)

OEM Repair Parts

Parts View for Series [CBX27UH-030-230-6](#)

Print this write-up More technical info Go to Drawing view

Expand All Collapse All Dash/Revision # with Qty

Call_out	Part Name	Part Nbr	Description	3
>	Category: CABINET PARTS			
>	Category: COOLING PARTS			
>	Category: ALTERNATE ALUMINUM COIL			
See Details	COIL-INDOOR	LB-90287AL	ALUMINUM COIL ASSY (TECH INFO - NOTE A)	1
>	Category: CONTROL PANEL PARTS			
>	Category: BLOWER PARTS			

OEM Repair Parts – Alternate Replacement Aluminum Coil Catalog Number & Technical Info Example

OEM Repair Parts | LennoxPRO: X

https://www.lennoxpros.com/partner-resources/a/ 80%

LENNOX Pros.com Showing availability for 75080-2254 | (change) Search by keyword, part #, model #, or cat #

Menu Quick Order (1) Cart (0)

OEM Repair Parts

More Information on [LB-90287AL](#)

ADD TO CART Return to write-up

Catalog Number	15R27
Description	COIL-INDOOR
Replacement Info	Part 15R27 replaced LB-90287AL replaced 616162-02
Additional Notes	There are no notes for this part.

OEM Repair Parts | LennoxPRO: X

https://www.lennoxpros.com/partner-resources/app/oem-repair-pa 80%

Customer: Customer Account Number START ORDER Advanced Search Recent Customers

Welcome, TJ My Account Store Locator My Learning Salesforce.com Admin Help | Sign Out Show / Hide

LENNOX Pros.com Showing availability for 75080-2254 | (change) Search by keyword, part #, model #, or cat #

Menu Quick Order (1) Cart (0)

OEM Repair Parts

Technical Information for: CBY270W-030-230-6

Return to write-up

Additional Information

NOTE A:
THE ALUMINUM ALTERNATE REPLACEMENT COIL LISTED MAY BE USED AS A REPLACEMENT FOR THE ORIGINAL COPPER COIL WHEN THE AIR HANDLER IS INSTALLED WITH AN AIR CONDITIONING OUTDOOR UNIT. THE ALUMINUM ALTERNATE REPLACEMENT COIL MAY BE INSTALLED WITH A HEAT PUMP, IF THE COIL IS AN APPROVED MATCH WITH THE HEAT PUMP. SEE LENNOX MATCHING CHARTS FOR THE HEAT PUMP.

DISTRIBUTOR ASSEMBLIES ARE NOT SET UP AS A REPAIR PART. IF COIL HAS MU...
COIL LEAKS IN THE DISTRIBUTOR ASSEMBLY, THE COIL SHOULD BE REPLACED.

Documents The following documents most closely match the unit you requested:

Alternate Quantum Aluminum Coil Table 1 for Air Conditioning Outdoor Units

Table 1 – Air Handler Quantum Coil Replacement Table for Air Conditioning Outdoor Units (Straight Cooling)

Existing Copper Coil Air Handler Model #	Alternate Quantum Aluminum Replacement Coil Catalog #	Description
CBX27UH-018	15R26	LB-90287AK CBA27UHE-018/024 Repair Coil
CBX27UH-024	15R26	LB-90287AK CBA27UHE-018/024 Repair Coil
CBX27UH-030	15R27	LB-90287AL CBA27UHE-030 Repair Coil
CBX27UH-036	15R30	LB-90287AM CBA27UHE-036 Repair Coil
CBX27UH-042	15R45	LB-90287AN CBA27UHE-042 Repair Coil
CBX27UH-048	15Z72	LB-90287AR CBA27UHE-048 Repair Coil
CBX27UH-060	15R46	LB-90287AP CBA27UHE-060 Repair Coil
CBX32MV-018/024	No Aluminum Coil Available	No Aluminum Coil Available
CBX32MV-024/030	15R26	LB-90287AK CBA27UHE-018/024 Repair Coil
CBX32MV-036	15R30	LB-90287AM CBA27UHE-036 Repair Coil
CBX32MV-048	15Z72	LB-90287AR CBA27UHE-048 Repair Coil
CBX32MV-060	15Z72	LB-90287AR CBA27UHE-048 Repair Coil
CBX32MV-068	No Aluminum Coil Available	No Aluminum Coil Available
CBX32M-018/024	No Aluminum Coil Available	No Aluminum Coil Available
CBX32M-030	15R26	LB-90287AK CBA27UHE-018/024 Repair Coil
CBX32M-036	15R30	LB-90287AM CBA27UHE-036 Repair Coil
CBX32M-042	15R30	LB-90287AM CBA27UHE-036 Repair Coil
CBX32M-048	15Z72	LB-90287AR CBA27UHE-048 Repair Coil
CBX32M-060	15Z72	LB-90287AR CBA27UHE-048 Repair Coil
CBX40UHV-024	15R27	LB-90287AL CBA27UHE-030 Repair Coil
CBX40UHV-030	15R27	LB-90287AL CBA27UHE-030 Repair Coil
CBX40UHV-036	15R30	LB-90287AM CBA27UHE-036 Repair Coil
CBX40UHV-042	15R45	LB-90287AN CBA27UHE-042 Repair Coil
CBX40UHV-048	15Z72	LB-90287AR CBA27UHE-048 Repair Coil
CBX40UHV-060	15Z72	LB-90287AR CBA27UHE-048 Repair Coil

NOTE – Table 1 lists the Quantum replacement coil for air handlers installed with an air conditioner outdoor unit (straight cooling, non-heat pump units). See Table 2 for Quantum replacement coils for air handlers used with heat pump outdoor units.

Alternate Quantum Aluminum Coil Table 2 for Heat Pump Outdoor Units

Table 2 – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

14HPX Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing 14HPX Heat Pump Model # (For 14HPX Heat Pumps Produced in 2012 & later [SN 1912A & Later])						
		14HPX-018	14HPX-024	14HPX-030	14HPX-036	14HPX-042	14HPX-048	14HPX-060
CBX27UH-018	15R26	Approved Replacement						
CBX27UH-024	15R26	Approved Replacement	Approved Replacement					
CBX27UH-030	15R27		Approved Replacement	Approved Replacement				
CBX27UH-036	15R30			Approved Replacement	Approved Replacement			
CBX27UH-042	15R45				Approved Replacement	Approved Replacement		
CBX27UH-048	15Z72					Approved Replacement	Approved Replacement	
CBX27UH-060	15R46						Approved Replacement	Approved Replacement
CBX32MV-018/024	No Aluminum Coil Available	No AL Coil Available	No AL Coil Available					
CBX32MV-024/030	15R26	Approved Replacement	Approved Replacement	Not Recommended				
CBX32MV-036	15R30		Not Recommended	Approved Replacement	Approved Replacement			
CBX32MV-048	15Z72				Approved Replacement	Approved Replacement	Approved Replacement	
CBX32MV-060	15Z72						Approved Replacement	Not Recommended
CBX32MV-068	No Aluminum Coil Available						No AL Coil Available	No AL Coil Available
CBX32M-018/024	No Aluminum Coil Available	Not Recommended	Not Recommended					
CBX32M-030	15R26	Approved Replacement	Approved Replacement	Not Recommended				
CBX32M-036	15R30		Not Recommended	Approved Replacement	Approved Replacement			
CBX32M-042	15R30					Not Recommended	Not Recommended	
CBX32M-048	15Z72					Approved Replacement	Approved Replacement	
CBX32M-060	15Z72						Approved Replacement	Not Recommended
CBX40UHV-024	15R27		Approved Replacement					
CBX40UHV-030	15R27		Approved Replacement	Approved Replacement				
CBX40UHV-036	15R30		Approved Replacement	Approved Replacement	Approved Replacement			
CBX40UHV-042	15R45				Approved Replacement	Approved Replacement		
CBX40UHV-048	15Z72				Approved Replacement	Approved Replacement	Approved Replacement	
CBX40UHV-060	15Z72						Approved Replacement	Not Recommended

4/17/2020

Notes

Approved Replacement	The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump
Not Recommended	The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application
No AL Coil Available	An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used

The Alternate Aluminum Listed in the Table Applies to the Heat Pump Produced After the Date Listed at the Top of Table

Table 2 cont'd – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

XP14 Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing XP14 Heat Pump Model # (For XP14 Heat Pumps Produced in 2012 & later [SN 5812A & Later])						
		XP14-018	XP14-024	XP14-030	XP14-036	XP14-042	XP14-048	XP14-060
CBX27UH-018	15R26	Approved Replacement						
CBX27UH-024	15R26	Approved Replacement	Approved Replacement					
CBX27UH-030	15R27		Approved Replacement	Approved Replacement				
CBX27UH-036	15R30			Approved Replacement	Approved Replacement			
CBX27UH-042	15R45				Approved Replacement	Approved Replacement		
CBX27UH-048	15Z72					Approved Replacement	Approved Replacement	
CBX27UH-060	15R46						Approved Replacement	Approved Replacement
CBX32MV-018/024	No Aluminum Coil Available	No AL Coil Available	No AL Coil Available					
CBX32MV-024/030	15R26	Approved Replacement	Approved Replacement	Not Recommended				
CBX32MV-036	15R30		Not Recommended	Approved Replacement	Approved Replacement			
CBX32MV-048	15Z72				Approved Replacement	Approved Replacement	Approved Replacement	
CBX32MV-060	15Z72						Approved Replacement	Not Recommended
CBX32MV-068	No Aluminum Coil Available						No AL Coil Available	No AL Coil Available
CBX32M-018/024	No Aluminum Coil Available	Not Recommended	Not Recommended					
CBX32M-030	15R26	Approved Replacement	Approved Replacement	Not Recommended				
CBX32M-036	15R30		Not Recommended	Approved Replacement	Approved Replacement			
CBX32M-042	15R30				Not Recommended	Not Recommended		
CBX32M-048	15Z72					Approved Replacement	Approved Replacement	
CBX32M-060	15Z72						Approved Replacement	Not Recommended
CBX40UHV-024	15R27		Approved Replacement					
CBX40UHV-030	15R27		Approved Replacement	Approved Replacement				
CBX40UHV-036	15R30		Approved Replacement	Approved Replacement	Approved Replacement			
CBX40UHV-042	15R45				Approved Replacement	Approved Replacement		
CBX40UHV-048	15Z72				Approved Replacement	Approved Replacement	Approved Replacement	
CBX40UHV-060	15Z72						Approved Replacement	Not Recommended

4/17/2020

Notes

- | | |
|----------------------|---|
| Approved Replacement | The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump |
|----------------------|---|
- | | |
|-----------------|---|
| Not Recommended | The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application |
|-----------------|---|
- | | |
|----------------------|---|
| No AL Coil Available | An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used |
|----------------------|---|

The Alternate Aluminum Listed in the Table Applies to the Heat Pump Produced After the Date Listed at the Top of Table

Table 2 cont'd – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

XP16 Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing XP16 Heat Pump Model # (For XP16 Heat Pumps Produced in 2010 & later [SN 5810A & Later])			
		XP16-024	XP16-036 (Note 1)	XP16-048	XP16-060
CBX27UH-018	15R26				
CBX27UH-024	15R26	Approved Replacement			
CBX27UH-030	15R27	Approved Replacement			
CBX27UH-036	15R30	Approved Replacement	Not Recommended		
CBX27UH-042	15R45		Approved Replacement		
CBX27UH-048	15Z72			Approved Replacement	
CBX27UH-060	15R46			Approved Replacement	Approved Replacement
CBX32MV-018/024	No Aluminum Coil Available				
CBX32MV-024/030	15R26	Approved Replacement			
CBX32MV-036	15R30	Approved Replacement	Not Recommended		
CBX32MV-048	15Z72		Not Recommended	Approved Replacement	
CBX32MV-060	15Z72			Approved Replacement	Not Recommended
CBX32MV-068	No Aluminum Coil Available			No AL Coil Available	No AL Coil Available
CBX32M-018/024	No Aluminum Coil Available				
CBX32M-030	15R26	Approved Replacement			
CBX32M-036	15R30	Approved Replacement			
CBX32M-042	15R30				
CBX32M-048	15Z72			Approved Replacement	
CBX32M-060	15Z72			Approved Replacement	Not Recommended
CBX40UHV-024	15R27	Approved Replacement			
CBX40UHV-030	15R27	Approved Replacement	Not Recommended		
CBX40UHV-036	15R30	Approved Replacement	Not Recommended		
CBX40UHV-042	15R45		Approved Replacement		
CBX40UHV-048	15Z72			Approved Replacement	
CBX40UHV-060	15Z72			Approved Replacement	Not Recommended

4/17/2020

Notes

Approved Replacement	The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump
Not Recommended	The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application
No AL Coil Available	An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used

The Alternate Aluminum Listed in the Table Applies to the Heat Pump Produced After the Date Listed at the Top of Table

1. On XP16-036 units, the heat pump must be produced in July 2013 or later (5813G & Later)

Table 2 cont'd – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

SL18XP1 Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing SL18XP1 Heat Pump Model #					
		SL18XP1-024	SL18XP1-030	SL18XP1-036	SL18XP1-042	SL18XP1-048	SL18XP1-060
CBX27UH-018	15R26						
CBX27UH-024	15R26	Not Recommended					
CBX27UH-030	15R27	Approved Replacement	Approved Replacement				
CBX27UH-036	15R30		Approved Replacement	Approved Replacement			
CBX27UH-042	15R45			Approved Replacement	Approved Replacement		
CBX27UH-048	15Z72				Approved Replacement	Approved Replacement	
CBX27UH-060	15R46					Approved Replacement	Approved Replacement
CBX32MV-018/024	No Aluminum Coil Available						
CBX32MV-024/030	15R26	Not Recommended	Not Recommended				
CBX32MV-036	15R30	Not Recommended	Approved Replacement	Approved Replacement			
CBX32MV-048	15Z72			Not Recommended	Approved Replacement	Approved Replacement	
CBX32MV-060	15Z72					Approved Replacement	Not Recommended
CBX32MV-068	No Aluminum Coil Available						
CBX32M-018/024	No Aluminum Coil Available						
CBX32M-030	15R26	Not Recommended	Not Recommended				
CBX32M-036	15R30	Not Recommended	Approved Replacement	Approved Replacement			
CBX32M-042	15R30		Approved Replacement	Approved Replacement			
CBX32M-048	15Z72				Approved Replacement	Approved Replacement	
CBX32M-060	15Z72					Approved Replacement	Not Recommended
CBX40UHV-024	15R27	Approved Replacement	Not Recommended				
CBX40UHV-030	15R27	Approved Replacement	Approved Replacement				
CBX40UHV-036	15R30	Not Recommended	Approved Replacement	Approved Replacement			
CBX40UHV-042	15R45			Approved Replacement	Approved Replacement		
CBX40UHV-048	15Z72			Not Recommended	Approved Replacement	Approved Replacement	
CBX40UHV-060	15Z72					Approved Replacement	Not Recommended

4/17/2020

Notes

Approved Replacement	The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump
Not Recommended	The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application
No AL Coil Available	An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used

Table 2 cont'd – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

XP20 Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing XP20 Heat Pump Model #			
		XP20-024	XP20-036	XP20-048	XP20-060
CBX32MV-018/024	No Aluminum Coil Available	No AL Coil Available			
CBX32MV-024/030	15R26	Approved Replacement			
CBX32MV-036	15R30		Not Recommended		
CBX32MV-048	15Z72			Not Recommended	
CBX32MV-060	15Z72			Not Recommended	Not Recommended
CBX32MV-068	No Aluminum Coil Available				No AL Coil Available
CBX40UHV-024	15R27	Approved Replacement			
CBX40UHV-030	15R27	Approved Replacement			
CBX40UHV-036	15R30		Not Recommended		
CBX40UHV-042	15R45		Approved Replacement		
CBX40UHV-048	15Z72			Not Recommended	
CBX40UHV-060	15Z72			Not Recommended	Not Recommended

4/17/2020

Notes

Approved Replacement	The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump
Not Recommended	The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application
No AL Coil Available	An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used

Table 2 cont'd – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

XP21 Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing XP21 Heat Pump Model # (For XP21 Heat Pumps Produced in 2012 & later)			
		XP21-024	XP21-036	XP21-048	XP21-060
CBX27UH-018	15R26				
CBX27UH-024	15R26	Not Recommended			
CBX27UH-030	15R27	Not Recommended			
CBX27UH-036	15R30		Not Recommended		
CBX27UH-042	15R45	Approved Replacement	Approved Replacement		
CBX27UH-048	15Z72			Not Recommended	
CBX27UH-060	15R46			Approved Replacement	Approved Replacement
CBX32MV-018/024	No Aluminum Coil Available				
CBX32MV-024/030	15R26	Not Recommended			
CBX32MV-036	15R30	Not Recommended	Not Recommended		
CBX32MV-048	15Z72		Not Recommended	Not Recommended	
CBX32MV-060	15Z72			Not Recommended	Not Recommended
CBX32MV-068	No Aluminum Coil Available			No AL Coil Available	No AL Coil Available
CBX32M-018/024	No Aluminum Coil Available				
CBX32M-030	15R26	Not Recommended			
CBX32M-036	15R30	Not Recommended			
CBX32M-042	15R30				
CBX32M-048	15Z72				
CBX32M-060	15Z72				Not Recommended
CBX40UHV-024	15R27	Not Recommended			
CBX40UHV-030	15R27	Not Recommended			
CBX40UHV-036	15R30	Not Recommended	Not Recommended		
CBX40UHV-042	15R45	Approved Replacement	Approved Replacement		
CBX40UHV-048	15Z72		Not Recommended	Not Recommended	
CBX40UHV-060	15Z72			Not Recommended	Not Recommended

4/17/2020

Notes

Approved Replacement	The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump
Not Recommended	The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application
No AL Coil Available	An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used

Table 2 cont'd – Air Handler Quantum Coil Replacement Table for Heat Pump Outdoor Units

XP25 Heat Pump - Alternate Aluminum Replacement Coil for Air Handlers

Existing Copper Coil Air Handler Model #	Quantum Aluminum Replacement Coil Catalog #	Existing XP25 Heat Pump Model #			
		XP25-024	XP25-036	XP25-048	XP25-060
CBX32MV-018/024	NA				
CBX32MV-024/030	15R26				
CBX32MV-036	15R30	Approved Replacement	Not Recommended		
CBX32MV-048	15Z72			Not Recommended	
CBX32MV-060	15Z72			Not Recommended	Not Recommended
CBX32MV-068	No Aluminum Coil Available				
CBX40UHV-024	15R27	Not Recommended			
CBX40UHV-030	15R27	Not Recommended			
CBX40UHV-036	15R30	Approved Replacement	Not Recommended		
CBX40UHV-042	15R45		Approved Replacement		
CBX40UHV-048	15Z72			Not Recommended	
CBX40UHV-060	15Z72			Not Recommended	Not Recommended

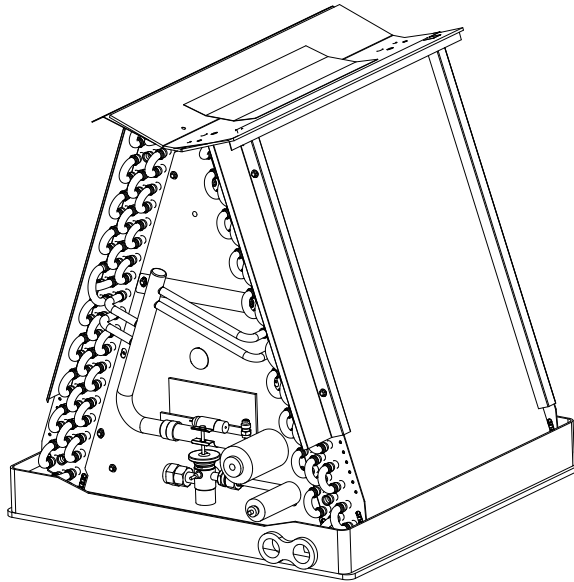
4/17/2020

Notes

Approved Replacement	The Alternate Aluminum Coil listed for the air handler is an approved replacement coil for use with the heat pump
Not Recommended	The Alternate Aluminum Coil listed for the air handler is not recommend for use with the heat pump & the copper replacement coil should be used in this application
No AL Coil Available	An Aluminum replacement coil is not available for this air handler & the copper replacement coil must be used

Replacement Quantum Coil Assembly and Installation Packet

Quantum Aluminum Replacement Coil



The Quantum Aluminum Replacement Coil includes:

1 - Complete Quantum Aluminum Coil Assembly with an upflow drain pan and a factory installed check / expansion valve.

1 - Replacement Coil Installation Packet:

Replacement Quantum Aluminum Air Handler coils will be provided with an installation packet and includes the items listed below.

A - Air handler replacement coil installation instructions form # 508008-01:

- The installation instruction provides the general guidelines to follow when installing a Quantum Aluminum coil in an air handler.

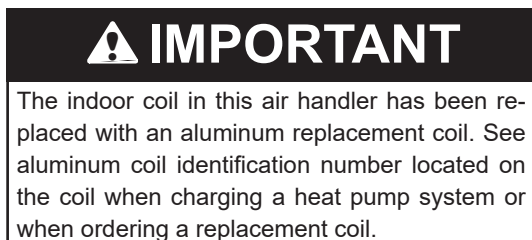
B - Replacement Coil Notification Label for installation on the air handling unit cabinet:

- This label notifies technicians performing service or maintenance procedures on the system that the original coil was replaced with a Quantum Coil. (See example of the label below.)

C - Aluminum Coil Cleaning Instruction Label for installation on the air handling unit cabinet.

D - Set of Updated Heat Pump Charging Labels:

- The charging labels include updated refrigerant charging information for the heat pump with the Quantum aluminum replacement coil. The new charging label is installed on the control box cover of the heat pump in place of the original charging label.



Replacement Coil Notification Label



Aluminum Coil Cleaning Instruction Label

Charging Systems Equipped with Replacement Quantum Aluminum Coil

Air Conditioner (straight cooling) Refrigerant Charging Systems Equipped with a Replacement Quantum Coil

The refrigerant charge of an air conditioner (straight cooling) outdoor unit installed with a Quantum replacement coil will not change. The system should be charged following the procedure on the refrigerant charging label provided on the air conditioning outdoor unit.

Heat Pump Refrigerant Charging Systems Equipped with a Replacement Quantum Coil

The Quantum replacement coil internal coil volume is less than the existing copper coil which will impact the system refrigerant charge on heat pumps systems. The replacement Quantum coil is provided with a set of updated heat pump charging labels. When the Quantum replacement coil is installed on a system with a heat pump outdoor unit, the system should be charged using charging procedure provided on the updated charging label that includes the addition of the Quantum aluminum coils. The Quantum aluminum coils will be listed as CBA27UHE-xxx or CBA38MV-xx on the label. An example of the updated heat pump charging label is provided below.

