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ClimaSys CU

Changes to the New ClimaSys Cooling Units

Substitution Guide 2023

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Changes to the New ClimaSys Cooling Units



The ClimaSys Cooling Unit range is changing.

From September 2023, a new connected Cooling Unit range will be launched which will replace the existing range, with the two ranges coexisting until the end of 2023.

Whenever required, some new retrofit kits have been defined for maintenance of the installed base, and the entire existing Spare parts and Accessories offer will remain as it is.

The new offer has been optimized in terms of :

- sustainability including better EER (Energy Efficiency Ratio),
- sizes and weight (smaller and lighter),
- and connectivity (native Modbus RTU).

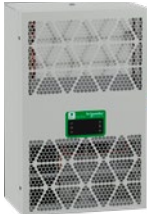
Natively, every new connected ClimaSys Cooling Unit can be connected to any Scada with its native Modbus RTU communication function.

Also, for critical applications, three redundant modes (Serial, Back-up, Sequential) are available by default and can be activated simply by interconnecting the Cooling Units with cables.

All the new connected ClimaSys Cooling Unit, Spare Parts and Accessories references can easily be recognized, as they end with DG. NSUCUxxxxDG for the Cooling Units, NSYCUSPxxxDG for the Spare Parts, NSYCUACCxxxDG for the Accessories.

In this document you will find all the information you will need to adapt your panel assembly and fitting processes

Substituting ClimaSys Cooling Unit References (1/2)



Replacing old references with the new ones in your database is very easy: simply use the following tables.

To simplify discovery of this new range, we have reduced the number of references from 69 to 40, combining both IEC and UL certificates.

Indoor Side Cooling Units

Steel



External dimensions			New ref.	Old references				
H (mm)	W (mm)	D (mm)	New type	IEC type 1	IEC type 2	UL type 1	UL type 2	UL type 3
460	290	190	NSYCU350DG	< NSYCU300H	NSYCU400	NSYCU400UL	-	-
	290	190	NSYCU600DG	< NSYCU600	-	NSYCU600UL	-	-
780	345	215	NSYCU800DG	< NSYCU800	-	NSYCU800UL	-	-
	345	215	NSYCU8002P4DG	-	-	-	-	-
	345	215	NSYCU1KDG	< NSYCU1K	-	NSYCU1KUL	-	-
	345	215	NSYCU1K2P4DG	< NSYCU1K2P4	-	NSYCU1K2P4UL	-	-
1000	405	225	NSYCU1K2DG	< NSYCU1K2	-	NSYCU1K2UL	NSYCUS1K1UL	-
	405	225	NSYCU1K22P4DG	< NSYCU1K22P4	-	-	NSYCUS1K12P4UL	-
	405	225	NSYCU1K6DG	< NSYCU1K6	-	NSYCU1K6UL	NSYCUS1K5UL	-
	405	225	NSYCU1K62P4DG	< NSYCU1K62P4	-	NSYCU1K62P4UL	NSYCUS1K52P4UL	-
	405	225	NSYCU2KDG	< NSYCU2K	-	NSYCU2KUL	NSYCUS2KUL	-
	405	225	NSYCU2K3P4DG	< NSYCU2K3P4	-	NSYCU2K3P4UL	NSYCUS2K3P4UL	-
	405	250	NSYCU3K2DG	< -	-	-	NSYCUS3K2UL	-
	405	250	NSYCU3K23P4DG	< NSYCU3K3P4	-	NSYCU3K3P4UL	-	NSYCUS3K23P4UL
1300	405	250	NSYCU4K3P4DG	< NSYCU4K3P4	-	NSYCU4K3P4UL	-	-

Stainless-Steel



External dimensions			New ref.	Old references				
H (mm)	W (mm)	D (mm)	New type	IEC type 1	IEC type 2	UL type 1	UL type 2	UL type 3
460	290	190	NSYCUX350DG	< NSYCUX400	-	-	-	-
	290	190	NSYCUX600DG	< NSYCUX600	-	NSYCUX600UL	-	-
780	345	215	NSYCUX1KDG	< NSYCUX1K	-	NSYCUX1KUL	-	-
	345	215	NSYCUX1K2P4DG	< NSYCUX1K2P4	-	NSYCUX1K2P4UL	-	-
1000	405	225	NSYCUX1K6DG	< NSYCUX1K6	-	NSYCUX1K6UL	NSYCUXS1K5UL	-
	405	225	NSYCUX2K3P4DG	< NSYCUX2K3P4	-	NSYCUX2K3P4UL	-	-

Substituting ClimaSys Cooling Unit References (2/2)

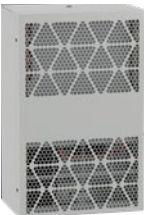


Indoor Roof Cooling Units

Stainless-Steel

External dimensions			New references		Old references	
H (mm)	W (mm)	D (mm)	New type		IEC type 1	UL type 1
368	400	325	NSYCU600RDG	<	NSYCU400R	NSYCU400RUL
412	595	395	NSYCU800RDG	<	NSYCU800R	NSYCU800RUL
		395	NSYCU8002P4RDG	<	-	-
	595	395	NSYCU1K2RDG	<	NSYCU1K2R	NSYCU1K2RUL
	595	395	NSYCU1K22P4RDG	<	-	-
	595	395	NSYCU1K5RDG	<	NSYCU1K5R	NSYCU1K5RUL
	595	395	NSYCU1K52P4RDG	<	-	-
435	595	475	NSYCU2KRDG	<	NSYCU2KR	-
	595	475	NSYCU2K3P4RDG	<	NSYCU2K3P4R	NSYCU2K3P4RUL
456	795	575	NSYCU3K3P4RDG	<	NSYCU3K3P4R	NSYCU3K3P4RUL
	795	575	NSYCU4K3P4RDG	<	NSYCU4K3P4R	NSYCU4K3P4RUL

Outdoor Cooling Units



External dimensions			New references		Old references	
H (mm)	W (mm)	D (mm)	New type		IEC type	
460	290	190	NSYCUHD350DG	<	NSYCUHD400	
	290	190	NSYCUHD600DG	<	NSYCUHD600	
780	345	215	NSYCUHD800DG	<	NSYCUHD800	
	345	215	NSYCUHD1KDG	<	NSYCUHD1K	
	345	215	NSYCUHD1K2P4DG	<	NSYCUHD1K2P4	
1000	405	225	NSYCUHD1K6DG	<	NSYCUHD1K6	
	405	225	NSYCUHD1K62P4DG	<	NSYCUHD1K62P4	
	405	225	NSYCUHD2K3P4DG	<	NSYCUHD2K3P4	

Note: UL types are not available for these references

Adapting the Cut-Outs (1/3)

Where to Find the New Cut-Out Drawings

New cut-out drawings are available as explained below:

Step 1

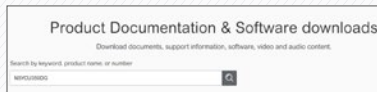
Use this link to go to “Product Documentation & Software downloads”:

<https://www.se.com/ww/en/download/>



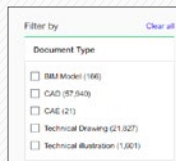
Step 2

Type the Cooling Unit reference in the search bar

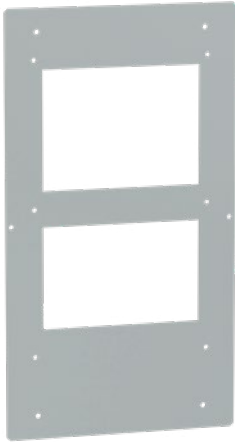


Step 3

Filter the document type by choosing “Technical drawings”



Adapting the Cut-Outs (2/3)



Using the Retrofit Kit

To mount a new cooling in place of an old one, Retrofit kits are available for use with each reference. Check the corresponding table below:

Indoor Side Cooling Units

Material	Reference	Surface retrofit kit
Steel	NSYCU600DG	NSYCUACC032DG
Stainless-steel	NSYCUX600DG	NSYCUACC022DG

All the other new Indoor Side Cooling Units can replace an old Cooling Unit without a retrofit kit.

Indoor Roof Cooling Units

Reference	Roof retrofit kit
NSYCU600RDG	NSYCUACC033DG
NSYCU800RDG	NSYCUACC018DG
NSYCU8002P4RDG	NSYCUACC018DG
NSYCU1K2RDG	NSYCUACC019DG
NSYCU1K22P4RDG	NSYCUACC019DG
NSYCU1K5RDG	NSYCUACC019DG
NSYCU1K52P4RDG	NSYCUACC019DG
NSYCU2KRDG	NSYCUACC020DG
NSYCU2K3P4RDG	NSYCUACC020DG
NSYCU3K3P4RDG	NSYCUACC021DG
NSYCU4K3P4RDG	NSYCUACC021DG

Adapting the Cut-Outs (3/3)

Slim Cooling Units

If you want to replace your old Slim Cooling Units with a new Indoor Side Unit (which is as slim as the old), you will have to use a specific retrofit kit specific to the mounting type, and to the material (steel or stainless-steel).

Material	Reference	Flush retrofit kit	Half-flush retrofit kit	Surface retrofit kit
Steel	NSYCU1K2DG	NSYCUACC023DG	NSYCUACC024DG	NSYCUACC025DG
	NSYCU1K22P4DG	NSYCUACC023DG	NSYCUACC024DG	NSYCUACC025DG
	NSYCU1K6DG	NSYCUACC023DG	NSYCUACC024DG	NSYCUACC025DG
	NSYCU1K62P4DG	NSYCUACC023DG	NSYCUACC024DG	NSYCUACC025DG
	NSYCU2KDG	NSYCUACC023DG	NSYCUACC024DG	NSYCUACC025DG
	NSYCU2K3P4DG	NSYCUACC023DG	NSYCUACC024DG	NSYCUACC025DG
	NSYCU3K2DG	NSYCUACC026DG	NSYCUACC027DG	NSYCUACC028DG
	NSYCU3K23P4DG	NSYCUACC026DG	NSYCUACC027DG	NSYCUACC028DG
Stainless-steel	NSYCUX1K6DG	NSYCUACC029DG	NSYCUACC030DG	NSYCUACC031DG
	NSYCUX2K3P4DG	NSYCUACC029DG	NSYCUACC030DG	NSYCUACC031DG

Outdoor Cooling Units

Out of 600 W, Outdoor Cooling Units do not need a retrofit kit to allow the adaptation to a new Outdoor Cooling Unit.

In case you need to retrofit a 600 W Outdoor Cooling Unit, please contact us.

Selecting the Right Spare Parts (1/3)

Spare Part offer is limited to the fans (condenser and evaporator) and controllers.

Condenser Fan Kit

Indoor Side Cooling Units



Material	Reference	Corresponding evaporator fan kit
Steel	NSYCU350DG	NSYCUSP001DG
	NSYCU600DG	NSYCUSP001DG
	NSYCU800DG	NSYCUSP003DG
	NSYCU8002P4DG	NSYCUSP003DG
	NSYCU1KDG	NSYCUSP003DG
	NSYCU1K2P4DG	NSYCUSP003DG
	NSYCU1K2DG	NSYCUSP005DG
	NSYCU1K22P4DG	NSYCUSP005DG
	NSYCU1K6DG	NSYCUSP005DG
	NSYCU1K62P4DG	NSYCUSP005DG
	NSYCU2KDG	NSYCUSP005DG
	NSYCU2K3P4DG	NSYCUSP007DG
	NSYCU3K2DG	NSYCUSP008DG
	NSYCU3K23P4DG	NSYCUSP009DG
	NSYCU4K3P4DG	NSYCUSP009DG
Stainless-steel	NSYCUX350DG	NSYCUSP001DG
	NSYCUX600DG	NSYCUSP001DG
	NSYCUX1KDG	NSYCUSP003DG
	NSYCUX1K2P4DG	NSYCUSP003DG
	NSYCUX1K6DG	NSYCUSP005DG
	NSYCUX2K3P4DG	NSYCUSP007DG

Indoor Roof Cooling Units

Reference	Corresponding condenser fan kit
NSYCU600RDG	NSYCUSP001DG
NSYCU800RDG	NSYCUSP003DG
NSYCU8002P4RDG	NSYCUSP003DG
NSYCU1K2RDG	NSYCUSP003DG
NSYCU1K22P4RDG	NSYCUSP003DG
NSYCU1K5RDG	NSYCUSP003DG
NSYCU1K52P4RDG	NSYCUSP003DG
NSYCU2KRDG	NSYCUSP003DG
NSYCU2K3P4RDG	NSYCUSP006DG
NSYCU3K3P4RDG	NSYCUSP009DG
NSYCU4K3P4RDG	NSYCUSP009DG

Outdoor Cooling Units

Reference	Corresponding condenser fan kit
NSYCUHD350DG	NSYCUSP001DG
NSYCUHD600DG	NSYCUSP001DG
NSYCUHD800DG	NSYCUSP003DG
NSYCUHD1KDG	NSYCUSP003DG
NSYCUHD1K2P4DG	NSYCUSP003DG
NSYCUHD1K6DG	NSYCUSP005DG
NSYCUHD1K62P4DG	NSYCUSP005DG
NSYCUHD2K3P4DG	NSYCUSP007DG

Selecting the Right Spare Parts (2/3)



Evaporator Fan Kit

Indoor Side Cooling Units

Material	Reference	Corresponding evaporator fan kit
Steel	NSYCU350DG	NSYCUSP002DG
	NSYCU600DG	NSYCUSP002DG
	NSYCU800DG	NSYCUSP004DG
	NSYCU8002P4DG	NSYCUSP004DG
	NSYCU1KDG	NSYCUSP004DG
	NSYCU1K2P4DG	NSYCUSP004DG
	NSYCU1K2DG	NSYCUSP003DG
	NSYCU1K22P4DG	NSYCUSP003DG
	NSYCU1K6DG	NSYCUSP003DG
	NSYCU1K62P4DG	NSYCUSP003DG
	NSYCU2KDG	NSYCUSP003DG
	NSYCU2K3P4DG	NSYCUSP006DG
	NSYCU3K2DG	NSYCUSP005DG
	NSYCU3K23P4DG	NSYCUSP007DG
	NSYCU4K3P4DG	NSYCUSP007DG
Stainless-steel	NSYCUX350DG	NSYCUSP002DG
	NSYCUX600DG	NSYCUSP002DG
	NSYCUX1KDG	NSYCUSP004DG
	NSYCUX1K2P4DG	NSYCUSP004DG
	NSYCUX1K6DG	NSYCUSP003DG
	NSYCUX2K3P4DG	NSYCUSP006DG

Indoor Roof Cooling Units

Reference	Corresponding condenser fan kit
NSYCU600RDG	NSYCUSP002DG
NSYCU800RDG	NSYCUSP003DG
NSYCU8002P4RDG	NSYCUSP003DG
NSYCU1K2RDG	NSYCUSP003DG
NSYCU1K22P4RDG	NSYCUSP003DG
NSYCU1K5RDG	NSYCUSP003DG
NSYCU1K52P4RDG	NSYCUSP003DG
NSYCU2KRDG	NSYCUSP003DG
NSYCU2K3P4RDG	NSYCUSP006DG
NSYCU3K3P4RDG	NSYCUSP007DG
NSYCU4K3P4RDG	NSYCUSP007DG

Outdoor Cooling Units

Reference	Corresponding condenser fan kit
NSYCUHD350DG	NSYCUSP002DG
NSYCUHD600DG	NSYCUSP002DG
NSYCUHD800DG	NSYCUSP004DG
NSYCUHD1KDG	NSYCUSP004DG
NSYCUHD1K2P4DG	NSYCUSP004DG
NSYCUHD1K6DG	NSYCUSP003DG
NSYCUHD1K62P4DG	NSYCUSP003DG
NSYCUHD2K3P4DG	NSYCUSP006DG

Selecting the Right Spare Parts (3/3)



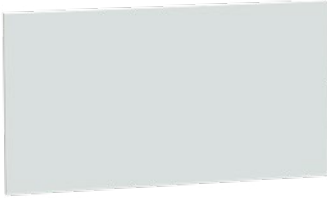
Controller Kit

For all types of Cooling Units (Indoor Side, Roof and Outdoor), there is only one controller kit option that can be used. The corresponding reference is: **NSYCUSP010DG**.

Selecting the Right Accessories (1/3)

Fibre Filter

Indoor Side Cooling Units



Material	Reference	Corresponding fibre filter
Steel	NSYCU350DG	NSYCUACC001DG
	NSYCU600DG	NSYCUACC001DG
	NSYCU800DG	NSYCUACC002DG
	NSYCU8002P4DG	NSYCUACC002DG
	NSYCU1KDG	NSYCUACC002DG
	NSYCU1K2P4DG	NSYCUACC002DG
	NSYCU1K2DG	NSYCUACC003DG
	NSYCU1K22P4DG	NSYCUACC003DG
	NSYCU1K6DG	NSYCUACC003DG
	NSYCU1K62P4DG	NSYCUACC003DG
	NSYCU2KDG	NSYCUACC003DG
	NSYCU2K3P4DG	NSYCUACC003DG
	NSYCU3K2DG	NSYCUACC004DG
	NSYCU3K23P4DG	NSYCUACC004DG
NSYCU4K3P4DG	NSYCUACC004DG	
Stainless-steel	NSYCUX350DG	NSYCUACC001DG
	NSYCUX600DG	NSYCUACC001DG
	NSYCUX1KDG	NSYCUACC002DG
	NSYCUX1K2P4DG	NSYCUACC002DG
	NSYCUX1K6DG	NSYCUACC003DG
	NSYCUX2K3P4DG	NSYCUACC003DG

Indoor Roof Cooling Units

Reference	Corresponding fibre filter
NSYCU600RDG	NSYCUACC010DG
NSYCU800RDG	NSYCUACC011DG
NSYCU8002P4RDG	NSYCUACC011DG
NSYCU1K2RDG	NSYCUACC011DG
NSYCU1K22P4RDG	NSYCUACC011DG
NSYCU1K5RDG	NSYCUACC011DG
NSYCU1K52P4RDG	NSYCUACC011DG
NSYCU2KRDG	NSYCUACC011DG
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NSYCU3K3P4RDG	NSYCUACC013DG
NSYCU4K3P4RDG	NSYCUACC013DG

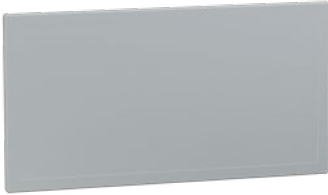
Outdoor Cooling Units

No corresponding fibre filter is available for this offer.

Selecting the Right Accessories (2/3)

Aluminum Filter

Indoor Side Cooling Units



Material	Reference	Corresponding aluminum filter
Steel	NSYCU350DG	NSYCUACC005DG
	NSYCU600DG	NSYCUACC005DG
	NSYCU800DG	NSYCUACC006DG
	NSYCU8002P4DG	NSYCUACC006DG
	NSYCU1KDG	NSYCUACC006DG
	NSYCU1K2P4DG	NSYCUACC006DG
	NSYCU1K2DG	NSYCUACC007DG
	NSYCU1K22P4DG	NSYCUACC007DG
	NSYCU1K6DG	NSYCUACC007DG
	NSYCU1K62P4DG	NSYCUACC007DG
	NSYCU2KDG	NSYCUACC007DG
	NSYCU2K3P4DG	NSYCUACC007DG
	NSYCU3K2DG	NSYCUACC008DG
	NSYCU3K23P4DG	NSYCUACC008DG
NSYCU4K3P4DG	NSYCUACC008DG	
Stainless-steel	NSYCUX350DG	NSYCUACC005DG
	NSYCUX600DG	NSYCUACC005DG
	NSYCUX1KDG	NSYCUACC006DG
	NSYCUX1K2P4DG	NSYCUACC006DG
	NSYCUX1K6DG	NSYCUACC007DG
	NSYCUX2K3P4DG	NSYCUACC007DG

Indoor Roof Cooling Units

Reference	Corresponding aluminum filter
NSYCU600RDG	NSYCUACC014DG
NSYCU800RDG	NSYCUACC015DG
NSYCU8002P4RDG	NSYCUACC015DG
NSYCU1K2RDG	NSYCUACC015DG
NSYCU1K22P4RDG	NSYCUACC015DG
NSYCU1K5RDG	NSYCUACC015DG
NSYCU1K52P4RDG	NSYCUACC015DG
NSYCU2KRDG	NSYCUACC015DG
NSYCU2K3P4RDG	NSYCUACC015DG
NSYCU3K3P4RDG	NSYCUACC017DG
NSYCU4K3P4RDG	NSYCUACC017DG

Outdoor Cooling Units

Reference	Corresponding aluminum filter
NSYCUHD350DG	NSYCUACC005DG
NSYCUHD600DG	NSYCUACC005DG
NSYCUHD800DG	NSYCUACC006DG
NSYCUHD1KDG	NSYCUACC006DG
NSYCUHD1K2P4DG	NSYCUACC006DG
NSYCUHD1K6DG	NSYCUACC007DG
NSYCUHD1K62P4DG	NSYCUACC007DG
NSYCUHD2K3P4DG	NSYCUACC007DG

Selecting the Right Accessories (3/3)



External Condensate Evaporator

Indoor Side Cooling Units

For all Indoor Cooling Unit offers, the corresponding Accessory reference is **NSYCUACC009DG**.

No corresponding Condensate Evaporator is available for Outdoor Cooling Units.

Outdoor Cooling Units

No corresponding Condensate Evaporator is available for Outdoor Cooling Units.

Half-Flush Kit

Indoor Side Cooling Units



Material	Reference	Corresponding half-flush kit
Steel	NSYCU350DG	NSYCUACC034DG
	NSYCU600DG	NSYCUACC034DG
	NSYCU800DG	NSYCUACC035DG
	NSYCU8002P4DG	NSYCUACC035DG
	NSYCU1KDG	NSYCUACC035DG
	NSYCU1K2P4DG	NSYCUACC035DG
	NSYCU1K2DG	NSYCUACC036DG
	NSYCU1K22P4DG	NSYCUACC036DG
	NSYCU1K6DG	NSYCUACC036DG
	NSYCU1K62P4DG	NSYCUACC036DG
	NSYCU2KDG	NSYCUACC036DG
	NSYCU2K3P4DG	NSYCUACC036DG
	NSYCU3K2DG	NSYCUACC037DG
	NSYCU3K23P4DG	NSYCUACC037DG
NSYCU4K3P4DG	NSYCUACC037DG	
Stainless-steel	NSYCUX350DG	NSYCUACC038DG
	NSYCUX600DG	NSYCUACC038DG
	NSYCUX1KDG	NSYCUACC039DG
	NSYCUX1K2P4DG	NSYCUACC039DG
	NSYCUX1K6DG	NSYCUACC040DG
	NSYCUX2K3P4DG	NSYCUACC040DG

ProClima Web and SEE Electrical Update



How to Select the Right Thermal Solution

In conjunction with the new Connected ClimaSys Cooling Unit country launches, our Thermal Solution selection and configuration tool called ProClima Web (<https://proclima.se.com/>) will propose the new Cooling Unit references.



For a better user experience, ProClima is now 100% interfaced with SEE Electrical 2D and 3D versions. Any user will be able to select an enclosure and the corresponding components in SEE Electrical, import them automatically into ProClima, and ProClima will propose the optimal Thermal Solution. At the very end, it will be possible to upload the corresponding BOM back into SEE Electrical for the final panel design and mechanical and electrical drawing definition.



Want to know more about our ProClima Web Software?

Check out our ProClima User guide >>>



More information >>>



Check out our ClimaSys CU



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07/2023
Document Number UEMKTG001EN

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