



DIRbuilder[™] Quick Guide **Tips & Tricks for DIRbuilder[™] usage**

DIRbuilder[™] is the new free online selection tool developed for easening your selection of valves. This guideline takes you through the features of the program step-by-step and gives tips & tricks on how to maximize your user-experience with DIRbuilder[™].



2.1

sales code numbers

are comprised in the DIRbuilder™ to facilitate easy valve selection between all Danfoss Industrial Refrigeration products.

DIRbuilder™ quick guide



Contents

Chapter 01 - The DIRbuilder™ Front Page	3
Chapter 02 - Explanation Applications Lines and Valves	4
Chapter 03 - Shopping Basket icons	5
Chapter 04 - Applications and Lines	7
Chapter 05 - Edit text for Applications, Lines and Valve quantities	8
Chapter 06 - Saving the Shopping Basket	9
Chapter 07 - Load a saved Shopping Basket	10
Chapter 08 - Add standard applications from the IR Application Handbook	12
Chapter 09 - Move Applications, Lines and Valves by drag-and-drop	14
Chapter 10 - Adding and editing project details	15
Chapter 11 - Export to Excel	16
Chapter 12 - Navigating the Product Library	17
Chapter 13 - The Product Window	19
Chapter 14 - Selecting a code to add to the Shopping Basket	22
Chapter 15 - Add spare parts and accessories	25
Chapter 16 - Type-code	



Chapter 01 - The DIRbuilder[™] Front Page

The DIRbuilder[™] front page will guide you to the main areas of the Danfoss Industrial Refrigeration product configurator.





Chapter 02 - Explanation Applications Lines and Valves

The shopping baskets structure consists of **Applications**, **Lines** and **Valves**. This is similar to examples in the Industrial Refrigeration Application Handbook. **Valves** have **Lines** as parents. **Lines** have **Applications** as parents.

Basket menu	Application menu Project details	File menu H	Hide basket		
	A	pplications			
Shopping Basket					
uantity Sales Code	Product Description		Type Code		
Application 1					
Line 1					
1 027B1120	Normally closed EVM solenoid pilot	alve		i i i i i i i i i i i i i i i i i i i	
1 02780087	Pilot valve CVC-XP			.	



Chapter 03 - Shopping Basket icons

What to do... How to do... By hovering Danfoss DIRbuilder™ - The Danfoss Industrial Refrigeration Product Configurator over this icon, Basket menu Hide basket Application menu Project details you may view File men generic images Shopping Basket of the selected Quantity Sales Code Product Description Type Code valve. DX evaporator, with hot gas defrost system with ICF control solution i i i i Liquid line , I 🖉 ICF Flexline™ - Control Solution. (). . M1=Stop. M2=Filter. M3=Solenoid. 1) Ple M4=Manual opening, M5=, M6=Sto 1) Please select SVA Stop valve. Selection not complete Suction line . 1 Please select SVA Stop valve. Selection not complete **I** 1) Please select 2-step on/off valve GPLX - Selection not complete 1 Please select SVA Stop valve. Selection not complete 1 📺 Hot gas line \$ **1**2 ICF Flexline[™] - Control Solution. (). . M1=Stop. M2=Filter. M3=Solenoid. M4=Stop 1 Please select 1 Discharge line ار 🗐 🚽 1 Please select 🔝 Check valve NRVA - Selection not complete 1 By clicking this Danfoss DIRbuilder™ - The Danfoss Industrial Refrigeration Product Configurator icon, the Application or Basket menu Hide basket Application menu Project details File me Line in question Shopping Basket collapses. Quantity Sales Code Product Description Type Code DX evaporator, with hot gas defrost system with ICF control solution **,** vid line R 🗊 🖉 Image: Please select ICF Flexline™ - Control Solution. (). . M1=Stop. M2=Filter. M3=Solenoid. M4=Manual opening. M5=. M6=Stop 1 > Please select 🔝 SVA Stop valve. Selection not complete Suction line 1 Please select SVA Stop valve. Selection not complete 1 Please select Image: Selection not complete 2-step on/off valve GPLX - Selection not complete **I** 1 1 Please select SVA Stop valve. Selection not complete 🔲 Hot gas line **, ,** ICF Flexline™ - Control Solution. (). . M1=Stop. M2=Filter. M3=Solenoid. 1 Please select M4=Stop Discharge line 4 I 🖉 1 Please select Check valve NRVA - Selection not complete By clicking this Danfoss DIRbuilder™ - The Danfoss Industrial Refrigeration Product Configurator icon, the Hide basket Application menu Project details File menu Application or Basket menu Line in question **Shopping Basket** expands. Quantity Sales Code Product Description Type Code DX evaporator, with hot gas defrost system with ICF control solution .

DIRbuilder™ quick guide



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	Liquid line						I
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	1 Please select		M4=Manual opening. M5=. M6=Stop SVA Stop valve. Selection not complete				1
	Suction line						
-	1 Please select	RA	SVA Stop valve. Selection not complete				1
	1) Please select	2	2-step on/off valve GPLX - Selection not co	omplete			1
	1 Please select	2	SVA Stop valve. Selection not complete				1
	Hot gas line						1
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		_	M4=Stop				1
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Chapter 04 - Applications and Lines

In order to add valves to the shopping basket, you must first add an application and a line. Follow these easy steps.

How to do...

What to do...

First, choose the 'Application menu' dropdown, followed by 'Add application'	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Image: Configurator Basket menu Application menu Project details File menu Hide basket Add application Add application selector Shopping Basket The basket is empty press the "Add application" button to start	
Then, click the 'Add' icon on the application bar to add a line.	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Direction Basket menu Application menu Project details File menu Hide basket Shopping Basket Application 1 Imenu Imenu Imenu Imenu	*
Finally, click the 'Add' icon on the line to add a valve.	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Direction Basket menu Application menu Project details File menu Hide basket Shopping Basket Application 1 Image: Shopping Line 1 Image: Shopping Line 1	*

Tips!

- A useful tip is to click 'Hide basket'. Then select a valve and add it to the shopping basket. By doing this, an application and a line will be created automatically.



Chapter 05 - Edit text for Applications, Lines and Valve quantities

To customize the application and line text to suit the project, follow these simple steps.

What to do...

First, choose the 'Basket menu' dropdown, followed by 'Edit values'.	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Basket menu Application menu Project details File menu Hide basket Clear Edit values Shopping Basket Application 1 Line 1 Line 1 Line 1	Danfoss & II.a & II.a
Then, edit the text to suit your needs.	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Basket menu Application menu Project details File menu Hide basket	Danfoss
	Shopping Basket Evaporator station 01 - with hot gas defrost Liquid line	
Finally, choose the 'Basket	DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator	Danfoss
menu' dropdown, followed by 'Save changes'.	Basket menu Application menu Project details File menu Hide basket Save changes Cancel changes Cancel changes Image: Cancel changes Image: Cancel changes Shopping Basket Evaporator station 01 - with hot gas defrost Image: Cancel changes Image: Cancel changes	
Your changes will then be saved	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator	Danfoss
Javeu	Basket menu Application menu Project details File menu Hide basket Shopping Basket - - - - - Evaporator station 01 - with hot gas defrost - - - - Liquid line - - - - -	

How to do...



Chapter 06 - Saving the Shopping Basket

Your shopping basket may be saved at any time, or saved as another file name, to be recalled later. Follow these simple steps.

How to do...

What to do...

First, choose the 'File menu'	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator					
dropdown,	Basket menu	Application menu Pro	ject details File menu	Hide basket		
followed by			Save basket to file			
'Save basket to			Load basket from file			
file'.	Shopping Basket		Export to spreadshee	t.		
	Quantity Sales Code	Product Description	Export to Excel	ne Code		
	Evaporator station 01 - w	ith hot gas defrost		pe code	2.11.1	
	Liquid line				3.00	
	1) 027L3037	ICF Flexline*** - Control Solution SCHEDULE 80). M1=Stop. M2= M5=Motor. M6=Stop	n. 20 mm (3/4 in). Butt weld (ASME B 36.10M Filter. M3=Solenoid. M4=Manual opening.	1 ICF-20-5-20ASXFXEXOXMASX3XXX		
	1 14885330	SVA stop valve. Straightway. 2 Standard pack Handwheel	0 mm(3/4 in) Butt weld (ANSI) connection.	SVAS05-020-AA-S-H	1	
	Contact Danfoss for	ICV 25 with 3/4 inch Butt-weld without cables	ANSI connection and actuator ICAD 600	ICM025-020-AA-B-x-H9100x	3	
	1 148B5330	SVA stop valve. Straightway. 2 Standard neck. Handwheel	0 mm(3/4 in) Butt weld (ANSI) connection.	SVA505-020-AA-S-H		
Then, at the	Shopping Basket					
bottom of the	Quantity Sales Code	Product Description		Type Code		
nage choose	Evaporator station 01 - w	ith hot gas defrost				
page, choose	Liquid line	ICT Flaulinette Control Coluin				
'Save as', and	1) 027L3037	SCHEDULE 80). M1=Stop. M2= M5=Motor. M6=Stop	n. 20 mm (3/4 in). Butt weid (ASME B 36.10P Filter. M3=Solenoid. M4=Manual opening.	ICF-20-6-20ASXFXEXOXMASX3XXX	1	
specify where	1 14885330	SVA stop valve. Straightway. 2 Standard neck. Handwheel	0 mm(3/4 in) Butt weld (ANSI) connection.	SVAS05-020-AA-S-H	.	
you want to	Contact Danfoss for sales code	ICV 25 with 3/4 inch Butt-weld without cables	ANSI connection and actuator ICAD 600	ICM025-020-AA-B-x-H9100x	.	
save the basket.	1 14885330	SVA stop valve. Straightway. 2 Standard neck. Handwheel	0 mm(3/4 in) Butt weld (ANSI) connection.	SVA505-020-AA-S-H	1 2	
	e [C	you want to open or save DanfossProductBuilder .	"' dpb from productbuildertest.danfoss.net?	Save Save as Open Save • Save and op	en	

Tips!

- Consider building up your own library of saved baskets. Then you can easily reuse them when needed, for future similar project pricing exercises. For example, make a folder for a customer and save the file according to global location and date (e.g. CompanyName\Country\Year-Month).



Chapter 07 - Load a saved Shopping Basket

The baskets you saved in your library may be loaded again. Just follow these simple steps.

What to do...

How to do...

First, choose the 'File menu' dropdown, followed by 'Load basket from file'.	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Image: Configurator Basket menu Application menu Project details File menu Hide basket Save basket to file Load basket from file Load basket from file Export to spreadsheet The basket is empty press the "Add application" button to start Export to Excel Export to Excel
Then click 'Browse'.	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Image: Configuration Configuration Basket menu Application menu Project details File menu Hide basket Shopping Basket Image: Configuration Image: Configuration Image: Configuration Image: Configuration The basket is empty press the "Add application" button to start Image: Configuration Image: Configuration Image: Configuration
Then locate your basket and click 'Open'.	DIRbuilder TM - The Danfoss Industrial Refrigeration Production Basket menu Application menu Project details File menu Hide to Organize New folder I Reverse The basket is empty press the "Add application" button to start Ot
Finally, click 'Ok'	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator Image: Configuration Product Configurator Basket menu Application menu Project details File menu Hide basket Shopping Basket C: Users\F72353\De @cousse. Image: C: Users\F72353\De @cousse. The basket is empty press the "Add application" button to start Image: C: Users\F72353\De @cousse.



Now you are ready to	DIRbuilder TM - The Danfoss Industrial Refrigeration Product Configurator	Danfos
continue on or adapt your saved shopping	Basket menu Application menu Project details File menu Hide basket Shopping Basket	
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nreferences	C Liquid line	
preferences.	Suction line	
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	1) 148B5630 🔝 Straightway. 40 mm(1 1/2 in) Butt weld (ANSI) SVAS05-040-AA-S-H	.
	🖸 Hot gas line	1
	Discharge line	5 🗊 🞜
	DX evaporator 02, with hot gas defrost system with ICF control solution	5 🗊 🖉
	DX evaporator 03, with hot gas defrost system with ICF control solution	5 🗐 🖉
	DX evaporator 04, with hot gas defrost system with ICF control solution	5 🗊 🖉
	Liquid injection - A compact solution for liquid injection with ICF	10 I I I I I I I I I I I I I I I I I I I
	C Electronic solution for HP liquid level control	14 🗐 🖉

Tips!

- You may consider emailing saved shopping basket files to colleagues to discuss, compare and reuse successful projects. Or, save basket files onto a common server, so that all may access completed shopping basket files. This may be useful in situations where e.g. the sales engineer is absent and a customer needs to discuss details of a project.



Chapter 08 - Add standard applications from the IR Application Handbook

DIRbuilder contains many standard applications already found in the Industrial Refrigeration Application Handbook. You may choose one of these applications and add it to the shopping basket by following these simple steps.

How to do...

What to do...

First, choose the 'Application	DIRbuilder TM - The Danf	oss Industrial Refrigeration Product Configurator	Danfois
menu	Basket menu App	lication menu Project details File menu	Hide basket
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followed by	Add	application via application selector	
'Add	Shonning Backet		
application via	Quantity Sales Code	Product Description	Type Code
	Evaporator station 01 - with hot g	jas defrost	The core
application	Liquid line		1. II.
selector'.	1) 027L3037	ICF Flexline ^(**) - Control Solution. 20 mm (3/4 in). Butt weld (ASME B 36.10) SCHEDULE 80). M1=Stop. M2=Filter. M3=Solenoid. M4=Manual opening. M5=Motor. M6=Stop	1 ICF-20-6-20ASXFXEXOXMASX3XXX
	1 🕽 14885330 🔝	SVA stop valve. Straightway. 20 mm(3/4 in) Butt weld (ANSI) connection. Standard neck. Handwheel	SVAS05-020-AA-S-H
	Contact Danfoss for sales code	ICV 25 with 3/4 inch Butt-weld ANSI connection and actuator ICAD 600 without cables	ICM025-020-AA-B-x-H9100x
	1 14885330 🔝	SVA stop valve. Straightway. 20 mm(3/4 in) Butt weld (ANSI) connection. Standard neck. Handwheel	SVAS05-020-AA-S-H
Then, choose	DIRbuilder TM - The Dan	foss Industrial Refrigeration Product Configurator	Draffild
the standard			Funder
	Reset Add to bas	ket Show basket	
application you		Hot G	as Defrost for DX
need, followed	DIRbuilder Product Library	Airco	olers
by clicking on	Danfoss IR Application Selector		@ AK-CC 210
'Add to basket'	*means mandatory	To rec	
when it	Standard Application Solution	Compressor Controls	
		Liquid Level Control Evaporator Controls	Compressor Erem other
appears.		O Oil Systems	
('Add to basket'		O Safety systems O Refrigerant Pump Controls	To other evaporators
only appears	Link	The Application Handbook	
only appears	Evaporator Controls		From receiver
when all	Evaporator Controls	O Direct Expansion Control	
specifications		Pumped Liquid Circulation Control Orbit Hot Gas Defrost for DX Air Coolers	an an den
are chosen)		O Hot Gas Defrost for Pumped Liquid DX E Circulation Air Coolers	vaporator with hot gas defrost with compact ICF control ion
		Multi Temperature Changeover	
	Hot Gas Defrost for DX Air Coolers	O Media Temperature Control	
	Hot Gas Defrost for DX Aircoolers	O DV Evaporator with hot and defeast	
		Liquid injection in an air cooler in a	
		flooded system using pulse width modulation valve AKVA, with hot gas	
		defrost DX Evaporator with hot gas defrost 	
		with compact ICF control solution	
		with ICF/ICM, fully welded solution	

DIRbuilder™ quick guide



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	Shopping Basket	
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	M4=Manual opening. M5=. M6=Stop	
	Suction line	
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	1 Please select 2 :step on/off valve GPLX - Selection not complete	
	1 Please select 🖾 SVA Stop valve. Selection not complete	
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Chapter 09 - Move Applications, Lines and Valves by drag-and-drop

Applications, Lines and Valves may be moved within the shopping basket by following these simple steps.

What to do...

How to do...

ck, hold and	DIRDuilder ^{***} - The Danfoss Industrial Refrigerat	ion Product configurator			Dantoss
n drag the	Rasket menu Application menu Project	details File menu	Hide basket		
olication.	representation interes (Tapers		inde bositet		
e or valve of					
pice to	Shopping Basket				
other	Quantity Sales Code Product Description		Type Code		
	Evaporator station 01 - with hot gas defrost		The cont		2.01.0
stination.	DX evaporator, with hot gas defrost system with ICF control solu	tion			12.00.00
	Liquid line				Rala
	ICF Flexline™ - Control Solution. ().	. M1=Stop. M2=Filter. M3=Solenoid.		Moving	
	M4=Manual opening. M5=, M6=Sto	p		woving	33
	1 Please select A SVA Stop valve. Selection not comp	lete		Valves	
	Suction line	SVA Stop valve. Selection	not complete		1
	Hot gas line				
	Discharge line				
	1 Please select A Check valve NRVA - Selection not c	omplete			
	1) Please select A Check valve NRVA - Selection not c	omplete			
	1 Please select SCA-X Stop/check valve. Selection	not complete			
	1 Please select A Pliot controlled servo valve ICS - BL	, for Differential pressure regulation with	1		(1)
	electric wide-opening. Selection not	complete			
	electric wide-opening. Selection not 1 Please select Electronic controller EKC - Selection	complete not complete			I
	I Please select AKS Pressure Transmitter - Selection AKS Pressure Transmitter - Selection	complete i not complete in not complete in not complete			یر او اور او اور او
	electric wide-opening. Selection not Please select Please select AKS Temperature Sensor - Selection Please select AKS Pressure Transmitter - Selection DIRbuilder TM - The Danfoss Industrial Refrigeration	complete n not complete n not complete ation Product Configurator			
		complete n not complete n not complete ation Product Configurator			Danfo
		complete in not complete n not complete ation Product Configurator ct details File menu	Hide basket		Danfe
		complete n not complete n not complete ation Product Configurator ct details File menu	Hide basket Type Code		Danfe
	alectric wide-opening. Selection not 1 Please select 1 Please select 1 Please select AKS Temperature Sensor - Selection 1 Please select AKS Pressure Transmitter - Selection Shopping Basket Quantity Sales Code Product Description C Evaporator station 01 - with hot gas defrost	complete n not complete n not complete ation Product Configurator ct details File menu Moving	Hide basket Type Code		Danfe 3.
	alectric wide-opening. Selection not 1 Please select 1 Please select AKS Temperature Sensor - Selection 1 Please select AKS Pressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection AKS Pressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection AKS Pressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection AKS Pressure Transmitter - Selection 1 Please select 2 AKS Pressure Transmitter - Selection Basket menu Application menu Projection Shopping Basket Quantity Sales Code Product Description Evaporator station 01 - with hot gas defrost DX evaporator, with hot gas defrost system with ICF control so	complete not complete n not complete ation Product Configurator ct details File menu	Hide basket Type Code		Danfo 3.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3
	alectric wide-opening. Selection not 1 Please select AKS Temperature Sensor - Selection 1 Please select AKS Tressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection 1 Please select 2 AKS Pressure Transmitter - Selection 1 Please select 2 AKS Pressure Transmitter - Selection 1 Please select 2 AKS Pressure Transmitter - Selection 3 AKS Pressure Transmitter - Selection 3 AKS Pressure Transmitter - Selection 3 AKS Pressure Transmitter - Selection 4 AKS Pressure Transmitter - Selection 5 AK Pressure Transmitter - Selection <td>complete in not complete in not complete ation Product Configurator ct details File menu Interes</td> <td>Hide basket Type Code</td> <td></td> <td>Danfo 34 34 34 34 34 34 34 34</td>	complete in not complete in not complete ation Product Configurator ct details File menu Interes	Hide basket Type Code		Danfo 34 34 34 34 34 34 34 34
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	alectric wide-opening, Selection not alectric wide-opening, Selection not alectric wide-opening, Selection 1 Please select A Electronic controller EKC - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select A KS Temperature Sensor - Selection 1 Please select System with ICF control so the sensor of Solution. The manuar opening. MS = . M6=5	complete not complete n not complete ation Product Configurator ct details File menu Union	Hide basket Type Code		23 23 23 23 23 23 23 23 23 23 23 23 23 2
	alectric wide-opening, Selection not of Solution. 1 Please select 1 Please select AKS Temperature Sensor - Selection 1 Please select AKS Pressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection 1 Please select Shopping Basket Quantity Sales Code Product Description Evaporator station 01 - with hot gas defrost DX evaporator, with hot gas defrost system with ICF control so 1 Please select 1 Please select 1 Please select Storp Transmitter - Selection 2 Subord Transmitter - Selection 3 Subord Transmitter - Selection 4 Selection menu 4 Projection 5 Storp Transmitter - Selection 5 Subord Tra	complete in not complete in not complete ation Product Configurator ct details File menu Ution U	Hide basket Type Code		
	alectric wide-opening, Selection not of Solution. 1 Please select AKS Temperature Sensor - Selection not complete the	complete in not complete an ont complete ation Product Configurator ct details File menu Ution U	Hide basket Type Code		
	alectric wide-opening, Selection not of a please select 1 Please select AKS Temperature Sensor - Selection 1 Please select AKS Tressure Transmitter - Selection 1 Please select AKS Pressure Transmitter - Selection 1 Please select Basket menu Application menu Projet Shopping Basket Quantity Sales Code Product Description Evaporator station 01 - with hot gas defrost DX evaporator, with hot gas defrost system with ICF control so Liquid line 1 Please select SvA Stop valve. Selection not con Suction line Hot gas line Discharme line	complete in not complete ation Product Configurator ct details File menu Ution	Hide basket Type Code		
	alectric wide-opening, Selection not of Solution. 1 Please select AKS Temperature Sensor - Selection 2 Please select AKS Temperature Sensor - Selection 3 AKS Pressure Transmitter - Selection 3 AKS Pressure Transmitter - Selection 4 AKS Temperature Sensor - Selection 5 AKS Temperature Sensor - Selection 5 A Stop value Selection not core 5 Suction line 4 Hot gas line 5 Discharge line 5 Not appending the sensor - Selection not core 5 Suction line 6 Discharge line 7 Not application	complete in not complete ation Product Configurator ct details File menu Inter	Hide basket Type Code		2 3 4 2

Tips!

- A useful tip is to copy Valves, Lines or Applications and move them to the location needed, instead of creating new Valves, Lines or Applications. This may often prove to save time.



Chapter 10 - Adding and editing project details

You can attribute specific project details to your shopping basket by following these simple steps.

How to do...

What to do...

First, choose Danfoss DIRbuilder™ - The Danfoss Industrial Refrigeration Product Configurator the 'Project details' drop Project details Basket menu Hide basket Application menu File menu down, followed Name Address **Shopping Basket** by 'Edit Quantity Sales Code Product Description property'. DX evaporator 01, with hot gas defrost system with ICF control solution R 🗊 🖉 🗖 Liquid line 4 1 Please select I ICF Flexline™ - Control Solution. (). . M1=Stop. M2=Filter. M3=Solenoid. M4=Manual opening. M5=. M6=Stop 1) Please select 🔝 SVA Stop valve. Selection not complete Suction line 🚦 Hot gas line 👩 Discharge line Then, assign Danfoss DIRbuilder™ - The Danfoss Industrial Refrigeration Product Configurator your project details and click Hide basket Application menu Project details Basket menu File menu Save changes. Project details × Shopping Basket Name Cool Kelly Applications Quantity Sales Code Product Description Address 22 Ballygobackwards DX evaporator 01, with hot gas defrost system with ICF contro R 🗊 🖉 Ireland 📋 Liquid line i i i i Customer no. 0178-4258 1) Please select IICF Flexline™ - Control Solu M3=Solenoid, M4=Manual o Sales engineer Ryan 1) Please select 🔝 SVA Stop valve. Selection no Suction line B 🛛 🖉 Cancel 👩 Hot gas line 4 I 4 Discharge line 4 I 🖉 Danfoss DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator Project details File menu Hide basket Basket menu Application menu Name Address Ireland Cool Kelly Applications 22 Ballygobackwards Customer No. 1452-8596 Salesperson Ryan Shopping Basket Quantity Sales Code Product Description Type Code Evaporator station 01 - with hot gas defrost 🖸 Liquid line DX evaporator, with hot gas defrost system with ICF control solution Suction line 3 🖸 Hot gas line 400 Discharge line 3 14

Tips!

- Please note that, if you require more than 7 project detail lines, first, save the changes and then edit again as explained. You will notice that 5 new detail lines will be automatically created.



Chapter 11 - Export to Excel

In order to export your shopping basket to Excel, follow these simple steps.

What to do...

How to do...

Desilvat success	DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator					
Basket menu	Application menu	Project details	File menu	Hide basket		
			Save basket to fil	e		
			Load basket from	file		
Shopping Basket			Export to spreads	iheet		
Quantity Sales Code	Product Description	_	Export to Excel	pe Code		
Evaporator station 01 - w	ith hot gas defrost				300	
DX evaporator, with hot g	as defrost system with ICI	F control solution				
Suction line						
Hot gas line					R	
Discharge line					1	
New Application					304	
Liquid line					6 I .	
1 Please select	ICF Flexline™ - Contr M4=Manual opening.	rol Solution. () M1=Stop. M5=. M6=Stop	12=Filter. M3=Solenoid		I	
1 Please select	SVA Stop valve. Sele	ction not complete				
New Application						
	ICF Flexline™ - Contro	ol Solution. () M1=Stop. N	2=Filter. M3=Solenoid.			
1 Please select	M4=Manual opening.	M5=. M6=Stop				
1 Please select	SVA Stop valve. Selec	tion not complete			3040	
					_	
< [III		•	
Do you w	ant to open or save DanfossProductB	uilder.xlsx from productbuildertes	t.danfoss.net?	Open Save Cancel ×		
	Shopping Basket Quantity Sales Code Evaporator station 01 - w DX evaporator, with hot g Suction line Hot gas line Discharge line New Application Liquid line 1 Please select 1 Please select 1 Please select 1 Please select 2 Please select 2 Please select 3 Please select 3 Please select	Shopping Basket Quantity Sales Code Product Description Evaporator station 01 - with hot gas defrost DX evaporator, with hot gas defrost system with ICI Suction line Hot gas line Discharge line New Application Liquid line 1 Please select SVA Stop valve. Selet ICF Flexline** - Contr M4=Manual opening. 1 Please select ICF Flexline** - Contr M4=Manual opening. 1 Please select	Shopping Basket Quantity Sales Code Product Description E Evaporator station 01 - with hot gas defrost D X evaporator, with hot gas defrost system with ICF control solution Buction line Hot gas line D Discharge line New Application 1 Please select 1 Please select 1 Please select 1 Please select 2 SVA Stop valve. Selection not complete	Load basket from Export to spreads Export to spreads Export to Excel Export to Excel	Stopping Basket Product Description Perfort Sporadabet Perfort Spo	

Tips!

- If you prefer to export your shopping basket to a comma separated file then choose the 'File menu' drop down, followed by 'Export to spread sheet'.



Chapter 12 - Navigating the Product Library

The Product Library contains all Danfoss Industrial Refrigeration products. The following simple steps show how to navigate the product library.

How to do...

What to do...

If you already DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator Danfoss know the code, Show basket Reset type it in the **DIRbuilder Product Library** input field means mandatory provided and Product Categories O Flexline™ Products O SVL Flexine*** - Line Components O ICV Flexine*** - ICS and ICM Control hit enter. Your product details O ICF Flexine*** - Control Solutions O Flexine*** Parts Production Flexine " Parts Production
 Manual Shut-off Valves
 Check Valves
 Filters
 Line Components will appear, ready to be Cline Components
 Starless Steel Line Components
 Starless Steel Steel Components
 Starless Steel Steel Components
 Starless Steel Steel Components
 Valves
 Component Components
 Safety Valves
 Component Valves
 Component Valves added to the shopping basket. O Expansion Valves O Level Controls O Gas Detection Electromechanical Controls
 Electronic Controls and Transmitters O Spare Parts w the sales code, please enter it here (case sensitive) DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator If you do not Danfoss know the code Reset Show basket to the product **DIRbuilder Product Library** you require, *means mandatory first, choose the · Product Catego O Flexine™ Products SVL Flexine*** - Line Components product O ICF Flexine** - Control Solutions category to O Flexine[™] Parts Production which it Manual Shut-off Valves Check Valves belongs to. C Line Components Stainless Steel Line Components Solenoid Valves Stainless Steel Solenoid Valves Pressure & Temperature Regulating Valves (and accessories) Safety Valves O Level Controls O Gas Detection O Electromechanical Controls Electronic Controls and Transmitters Spare Parts * If you know the sales code, please enter it here (case sensitive)







Chapter 13 - The Product Window

When navigating within the product library product tabs, you will notice that the contents of a typical product tabs are generally divided into sections.

Where...

What...

DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator Danfoss The 'Data' section Show basket Reset contains DIRbuilder Product Library product data, SVL Flexline™ Products andate links to Data m working pressure 52 bar g Danfoss.com Maximum working pressure 754 psi g Temperature range -60 to 150 °C literature and Temperature range -76 to 302 °F Documentation link SVL product inform helpful See animations explaining SVL Flexine product configuration choices animations. Choose units to show O Metric O Imperial Details SVA Stop valve
 REG Regulating valve
 SCA-X Stop/check valve
 CHV-X Check valve
 FIA Filter Function module Function module SCA-X Stop/check valve Equipment G Cap Neck Standard General Direction O Straightway O Angleway Connection type Connection size • mm Connection size inch Code Sales code Unique type-code Link DIRbuilderTM - The Danfoss Industrial Refrigeration Product Configurator The Image Danfoss section Reset Show basket contains DIRbuilder Product Library images that SVL FlexlineTH Products "means mandatory Data reflect the most Maximum working pressure 52 bar g recent Maximum working pressure 754 psi g Temperature range -60 to 150 °C selections. Temperature range -76 to 302 °F Documentation link SVL product infor See animations explaining SVL Flexine product configuration choices Selection Choose units to show O Metric O Imperial Details Function module Eunction module SVA Stop valve REG Regulating valve
 SCA-X Stop/check valve
 CHV-X Check valve
 FIA Filter SCA-X Stop/check valve Equipment Cap Neck Standard General Direction O Straightway O Angleway Connection type . · Connection size • Connection size . inch Code Sales code Unique type-code Link





DIRbuilder™ quick guide



The Code	DIRbuilder TM - T	he Danfoss Industrial R	efrigera	tion Product Configurator	Danfoss
section	Reset Show basket				
contains the	DIRbuilder Product Library				
sales code, link	SVL Flexline™ Products				
to code specific	means mandatory				
data containing	Maximum working pressure	52 bar g		. 🛯 📥 📥	
auta containing	Maximum working pressure	754 psi g			
literature,	Temperature range	-76 to 302 °F			
approvals and	Documentation link	SVL product information			
CAD symbols	product configuration choices Selection		2		
For some	Choose units to show	O Metric O Imperial		- J 🖓	•
products, a	Function module	SVA Stop valve		Function module	
type-code is		SCA-X Stop/check valve CHV-X Check valve		SCAR Suppried value	
included. This is	Equipment	© FIA Filter @ Cap			
explained in	Neck General	Standard		T	
more detail in	Direction	Straightway Angleway			
Chapter 16 -	Connection type Connection size		• mm		
Type-code.	Connection size	1	• inch		
	Sales code " Unique type-code Link				



Chapter 14 - Selecting a code to add to the Shopping Basket

This chapter explains a typical scenario in which a sales code number is chosen by way of making certain selection choices and then added the sales code number to the shopping basket.

How to do...

What to do...









DIRbuilder™ will	DIRbuilder Product Library			Valve house size
open, what is	ICS servo operated valves			
called, a conflict	*means mandatory			
dialog. To	Please choose one	ICS without pilot valves Drodefined functions (ICS)	rilota)	
resolve the	Animations	V Predenned Mikdons (ICS +	_pilots) ▼	
conflict you will	Predefined (ICS + pilot valves) functions			200
Jonnict, you will	Functions			
pe asked to	Predefined functions	S, for Inlet pressure regulation	n with 💌	Conflict
disregard one	Pilots valves			
uisiegalu olie	Port P selection	Plug A+B	*	If you choose Valve house size = ICS 50 the following
or more	Port S1 selection	EVM NC: MOPD = 21 barg/305	psig (1 🔻	choices are invalid
orevious	Port S2 selection	CVP LP: 0 to 7 barg/0 to 102 p	psig (M 🔻	Flowrate module = ICS 40
alactions Du	Main valve			Remove invalid choices?
selections. By	Flowrate module	ICS 50	*	
choosing 'Yes',	Connection type	Socket-weld ANSI	*	
the mentioned	Connection size	2 inch		
	Top cover type	3-pilot top cover	*	
selection value	Valve house size	ICS 50	*	Yes No
or values will be	Code			
changed	Unique type-code	ICS050-050-SO-H-3-F1046x-B1	1120x-B1100x	
liangeu.	Sales code	148X0237		
	Assembled or Separate Products			
	Available as	 Fully assembled ICS + pilot Separate items 	(s)	

Tips!

- Remember, the selection process does not necessarily have to start top downwards. You may begin your selection process with selections you are most familiar with. For example, in this instance, you may just as easily start with 'Connection size' and 'Connection type'. This will automatically reduce the amount of options in all the other selection dropdowns.



Chapter 15 - Add spare parts and accessories

After finding a Flexline product sales code number, DIRbuilder[™] will offer a range of available spare parts and accessories associated with the selected sales code number. The following simple steps show how these may be added to the shopping basket.

How to do...

What to do...



Tips!

- If you forget to add spare parts and accessories, they may be located again by choosing the spare parts option in the DIRbuilder[™] product library.
- You can always check the current state of your shopping basket before adding anything to it by choosing Show basket. Then you can resume from where you left off by choosing Hide basket.



Chapter 16 - Type-code

Type codes are used by the engineering office to create sales code numbers for Flexline[™] product configurations that have never been sold before. This is an explanation of what to do when you encounter a situation in which you configure a product that does not have a sales code number.

What...

Where...

With			Actuator	
with a stand	DIRbuilder Product Library			
customized	ICM - Motorized Main Valves			
Flexline™	*means mandatory Data		ATA	
products, a	Maximum working pressure	52 bar g		
, , , , , , , , , , , , , , , , , , ,	Temperature range	-60 to 120 °C		
type-code will	Temperature range	-76 to 248 °F	-2	
appear. A type-	Refrigerants	CFC, HCFC, HFC, R717, R744	ICAD 900 without cables	
	Link to litterature	ICM		
code includes a	HousingSelection			
unique bill of	Connection type	ICV 40		
	Connection size	1 1/2 inch		
materials and	Module Selection			
detailed	Function module/top cover	ICM40-A 🗸		
	Actuator Selection		1944 Ju	
instructions for	Code	ICAD 900 without cables		
assembly and	Unique type-code	ICM040-040-SO-A-x-H9101x	ICAD 900	
	Sales code	Contact Danfoss for sales code		
testing.	Links			
	Module link	Sales code 027H4180: ICM40-A		
	Actuator link	cables		
If your fleyline			Actuator	
If your flexline	DIRbuilder Product Library		Actuator	
lf your flexline product	DIRbuilder Product Library ICM - Motorized Main Valves		Actuator	
If your flexline product configuration	DIRbuilder Product Library ICM - Motorized Main Valves •means mandatory Data		Actuator	
If your flexline product configuration does not	DIRbuilder Product Library ICM - Motorized Main Valves means mandatory Data Maximum working pressure	52 bar g	Actuator	
If your flexline product configuration does not	DIRbuilder Product Library ICM - Motorized Main Valves •means mandatory Data Maximum working pressure Maximum working pressure Tempesture range	52 bar g 754 pai g 160 to 130 80	Actuator	
If your flexline product configuration does not produce a sales	DIRbuilder Product Library ICM - Motorized Main Valves •means mandatory Data Maximum working pressure Maximum working pressure Temperature range Temperature range	52 barg 754 paig -60 to 120 °C -76 to 248 °F	Actuator	
If your flexline product configuration does not produce a sales code, it means	DIRbuilder Product Library ICM - Motorized Main Valves •means mandatory Data Maximum working pressure Maximum working pressure Temperature range Temperature range Refrigerants	52 bar g 754 paig -60 to 120 °C -76 to 248 °F CFC, HCFC, HFC, R717, R744	Actuator	
If your flexline product configuration does not produce a sales code, it means	DIRbuilder Product Library ICM - Motorized Main Valves •means mandatory Data Maximum working pressure Maximum working pressure Temperature range Temperature range Refrigerants Link to litterature	52 bar g 754 pai g -60 to 120 °C -76 to 248 °F CFC, HCFC, HFC, R717, R744 ICM	Actuator	
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If your flexline product configuration does not produce a sales code, it means that it has not been sold	DIRbuilder Product Library ICM - Motorized Main Valves *means mandatory Data Maximum working pressure Maximum working pressure Temperature range Temperature range Refrigerants Link to litterature HousingSelection House size Connection type	52 bar g 754 pai g -60 to 120 °C -76 to 248 °F CFC, HCFC, HFC, R717, R744 ICM ICV 40	Actuator	
If your flexline product configuration does not produce a sales code, it means that it has not been sold	DIRbuilder Product Library ICM - Motorized Main Valves *means mandatory Data Maximum working pressure Maximum working pressure Temperature range Temperature range Refrigerants Link to litterature HousingSelection House size Connection type Connection size	52 bar g 754 pai g -60 to 120 °C -76 to 248 °F CFC, HCFC, HFC, R717, R744 ICM ICV 40 Socket-weld ANSI 1 1/2 inch	Actuator	
If your flexline product configuration does not produce a sales code, it means that it has not been sold previously.	DIRbuilder Product Library ICM - Motorized Main Valves *means mandatory Data Maximum working pressure Maximum working pressure Maximum working pressure Maximum working pressure Temperature range Refrigerants Link to litterature HousingSelection House size Connection type Connection size Module Selection	52 bar g 754 pai g -60 to 120 °C -76 to 248 °F CFC, HCFC, HFC, R717, R744 ICM ICV 40 Socket-weld ANSI 1 1/2 inch	Actuator Image: Constraint of the second s	
If your flexline product configuration does not produce a sales code, it means that it has not been sold previously.	DIRbuilder Product Library ICM - Motorized Main Valves *means mandatory Data Maximum working pressure Maximum working pressure Module Selection Function module/top cover	52 bar g 754 pai g -60 to 120 °C -76 to 248 °F CFC, HCFC, HFC, R717, R744 ICM ICV 40 Socket-weld ANS1 1 1/2 inch ICM40-A	Actuator	
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Tips!

- Remember that configurations without sales codes may be added to the shopping basket.
- Configurations without sales codes will be remembered by the shopping basket, so clicking on them in the shopping basket will show the details of the configuration.







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