

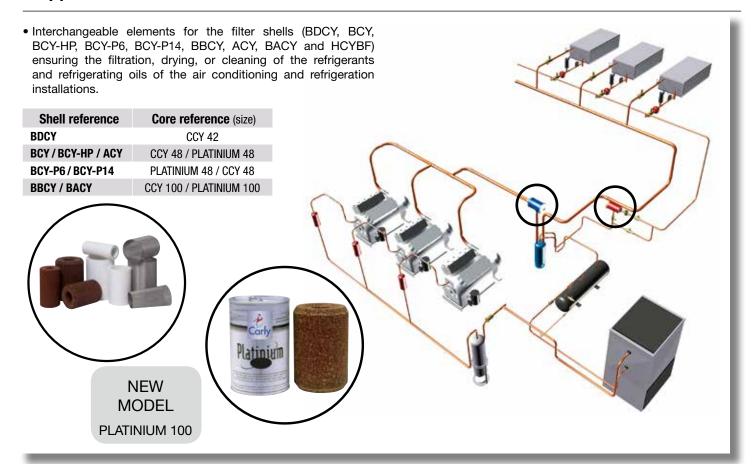
Carly

Drying, filtering and cleaning cores

CTCY-EN - 8.1-6 / 06-2018

→ CCY / PLATINIUM

■ Applications



■ Functional features

- Products are compatible with CFCs, HCFCs, HFCs, CO₂, as well as with their associated oils and additives. Products are designed for use of non-hazardous refrigerants from group 2 of PED 2014/68/EU. To use CARLY components with fluids of the hydrocarbon group 1 Propane R290, Butane R600, Isobutane R600a, Propylene R1270 with HFOs and transcritical CO₂ and for a RANKINE organic cycle application, contact CARLY technical department.
- The cartridges CCY HP, N, PLATINIUM:
 - → can be used with all the filter shells that can be found on the market.
 - → are supplied with a complete set of flange gaskets corresponding to most of the filter shells that can be found on the market. Important: This gaskets set do not contain the one for BCY-P14 flanges which is specific.
 - → are designed and manufactured to trap with a low pressure drop the humidity and impurities conveyed by the refrigerant and resist against vibrations and the circuit's pressure cyclings.
- The cleaning and drying cores CCY HP and N have a high acid adsorption power.
- The filtering cartridge CCY 48 HU can be used for all types of refrigerating oils with or without additives.

■ CARLY advantages

- The cores CCY HP, PLATINIUM 48 and N are oven-dried in order to be perfectly dehydrated before being packed in an easy-to-open sealed box. These cores have high humidity adsorption capacities at high and low condensation temperatures.
- The CCY I and F cores are efficient whichever the refrigerant flow direction.
- Efficient solutions for refrigerating circuit decontamination thanks to a complete range of cores.
- Presence of a date sticker to be filled in after the maintenance operations (core change).

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Refrigeration & Climate Components Solutions



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■ Warning

Before selecting or installing any component, please refer to the chapter 0 - WARNING.

■ General assembly precautions

The installation of a component in a refrigeration system by a skilled professional, requires some precautions:

• Some are specific to each component, and in this case, they are specified in the

RECOMMENDATIONS SPECIFIC part defined hereafter;

- Other are general to all CARLY components, they are presented in the chapter 115 – GENERAL ASSEMBLY PRECAUTIONS.
- The recommendations relating to the CARLY components for the subcritical CO₂ applications are also developed in chapter 115 – GENERAL ASSEMBLY PRECAUTIONS.

■ Specific recommendations for drying, filtering and cleaning cores CCY HP, N, F, I, HU and PLATINIUM

- Refer to assembly precautions for replaceable core filter drier shells and recommendations for liquid line: BDCY, BCY, BCY-HP, BCY-P6, BCY-P14, BBCY, for suction replaceable core filter shells: BDCY, ACY, BACY, and for HCYBF replaceable core oil filter shells.
- Remove cores from their sealed can at the very last moment before putting them in the shells.
- The cartridges CCY 48 HP, 48 N and PLATINIUM must be positioned in various cartridge holders with their funnel shape at the larger end (see chapter "technical features of cores ", Ø 4 on drawing N°2) on the box outlet union side.
- It is imperative to use CCY A adapters

- with chemical cores (CCY N, CCY HP and PLATINIUM) in the suction filter shells. Do not forget to remove them before installing CCY F and CCY I cores.
- Important: The CCY cores must be changed very regularly and particularly the CCY HP and PLATINIUM cartridges must be absolutely replaced:
 - → after each intervention on the installation requiring the opening of the circuit
 - → when the liquid indicator (VCYL or VCYLS) indicates an abnormal humidity content
 - → when the pressure loss measured in the filter drier shell is too great
 - → at least once a year as a measure of

precaution.

- It is important to regularly monitor the refrigerant's moisture content and condition using sight glasses with CARLY VCYL or VCYLS moisture indicator (refer to chapter 9 or 10).
- For use of various CCY core types in the pollution control and circuit cleaning process after compressor burnout, closely follow the recommendations given to chapter 7.



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■ Functional features

To be used with					Use		Filtration						
CARLY References	BDCY	BCY BCY-HP	BCY-P6 BCY-P14	BBCY	ACY	BACY	HCYBF	On suction line	On liquid line	On oil line	microns	Composition	Features
Felt cores													
CCY 42 F	Χ							Temporary a					For CFC, HCFC, HFC, CO ₂
CCY 48 F			Χ					few days			10	Felt	Reinforced filtration
CCY 100 F						Χ							
Stainless steel													
CCY 42 I	Χ											Stainless steel	For CFC, HCFC, HFC, CO.
CCY 48 I			Х		X			Permanent			140	mesh cloth and	Filtering
CCY 100 I						Χ						screen	
High efficiency		g core	S										
CCY 42 HP	X	.,	.,		.,			Temporary a	Permanent		=0	Chemical	For CFC, HCFC, HFC, CO ₂
CCY 48 HP		Χ	Χ	V	X	V		few days	until saturation	50	agents	Reinforced drying acid neutralization	
CCY 100 HP		d		X		Χ		_	Saturation				aciu neutranzation
Very hich efficie	ency								-		_		
PLATINIUM 48		Χ	Χ		X			Temporary a	Permanent until		50	Chemical	For CFC, HCFC, HFC, CO ₂
PLATINIUM 100				Χ		Χ		few days	few days saturation		30	agents	Optimum drying
Cleaning cores													
CCY 42 N	X												For CFC, HCFC, HFC, CO ₂ Burnout decontamination,
CCY 48 N		Х	Х		X			Temporary a few days	Temporary a few days		50	Chemical agents	reinforced drying, reinforced acid neutralization, wax and resin
CCY 100 N				X		X							binding
Oil cores													
CCY 48 HU							X			Permanent until saturation	30	Filtrating cellulose, glued, pleated	For refrigerating oil filtering





Drying, filtering and cleaning cores

→ CCY HP / PLATINIUM / CCY N

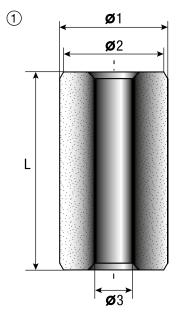
■ Selection table of drying and cleaning cores

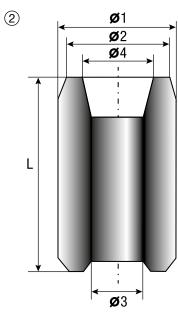
CARLY References	Filtering surface	Volume of desiccation	Dehydratable refrigerant capacity kg of refrigerant (1)							
		products	R22 R407C R407F		R134a R410A		R404A R507		R744	
	cm ²	cm ³	24 °C	52 °C	24 °C	52 °C	24 °C	52 °C	24 °C	
CCY 42 HP	374	645	47	40	53	43	50	41	29	
CCY 48 HP	420	704	55	48	64	51	60	49	34	
CCY 100 HP	630	1495	110	95	126	101	120	97	67	
PLATINIUM 48	420	704	72	62	83	66	78	64	44	
PLATINIUM 100	630	1495	144	123	163	131	156	127	87	
CCY 42 N	374	645	47	40	53	43	50	41	29	
CCY 48 N	420	704	55	48	64	51	60	49	34	
CCY 100 N	630	1495	110	95	126	101	120	97	67	

⁽¹⁾ Dehydratable refrigerant capacities according to Standard ARI 710-86.

■ Technical features of drying and cleaning cores

CARLY References	Duousina Nh	Dimensions mm							
	Drawing Nb	Ø1	Ø2	Ø 3	Ø 4	L			
CCY 42 HP	1	80	74	29	/	148			
CCY 48 HP	2	94	82	45	60	139			
CCY 100 HP	1	121	108	53	/	164			
PLATINIUM 48	2	94	82	45	60	139			
PLATINIUM 100	1	121	108	53	/	164			
CCY 42 N	1	80	74	29	/	148			
CCY 48 N	2	94	82	45	60	139			
CCY 100 N	1	121	108	53	/	164			









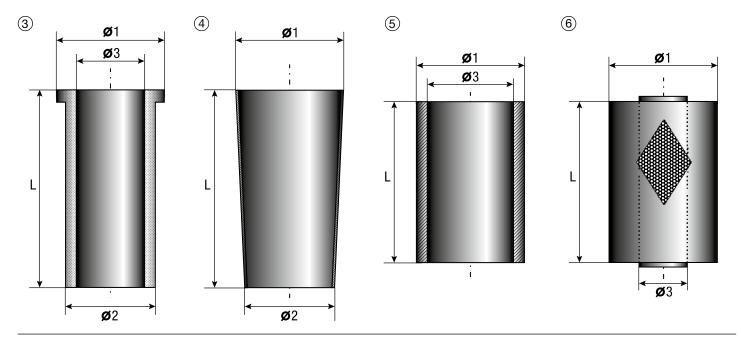
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→ CCY F / CCY I / CCY HU

■ Selection table and technical features of filtering cores

CARLY References	Drawing Nb	Surface de filtration cm ²		Dimensi	Maximal working temperature	Minimal working temperature		
neierences			Ø1	Ø2	Ø 3	L	TS maxi °C	TS maxi °C
CCY 42 F	3	329	81	62	42	155	100	-40
CCY 48 F	5	420	93	/	75	140	100	-40
CCY 100 F	5	630	122	/	105	166	100	-40
CCY 42 I	4	348	81	62	/	155	/	/
CCY 48 I	5	420	93	/	/	140	/	/
CCY 100 I	5	630	122	/	/	166	/	/
CCY 48 HU	6	5790	101	/	27	150	100	-40



■ Spare parts

CARLY References	Description	Types	Quantity
CY 15555211	End plate gasket (red)	BDCY	1
CY 15552360	End torique gasket	BCY-P14	1
CY 15555601	Gasket for end plate and for flange of oil separator (red)	ACY / BCY / BCY-HP	1
CY 15555303	Gasket for flange of oil separators (blue)	BCY-P6	1
CY 15555701	Gasket for end plate and for oil separator (red)	BACY - BBCY	1



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→ CCY / PLATINIUM

■ Weights and packaging

CARLY		veight g	Packaging		
references	With packaging	Without packaging	number of pieces		
CCY 42 HP	0,77	0,68	15		
CCY 48 HP	0,90	0,79	15		
CCY 100 HP	1,75	1,52	6		
PLATINIUM 48	0,90	0,79	15		
PLATINIUM 100	1,75	1,52	6		
CCY 42 N	0,62	0,53	15		
CCY 48 N	0,81	0,70	15		
CCY 100 N	1,58	1,36	6		

CARLY		veight :g	Packaging	
references	With Without packaging		number of pieces	
CCY 42 F	0,13	0,12	6	
CCY 48 F	0,26	0,15	15	
CCY 100 F	0,24	0,19	6	
CCY 42 I	0,11	0,10	6	
CCY 48 I	0,21	0,10	15	
CCY 100 I	0,24	0,16	6	
CCY 48 HU	0,31	0,30	15	