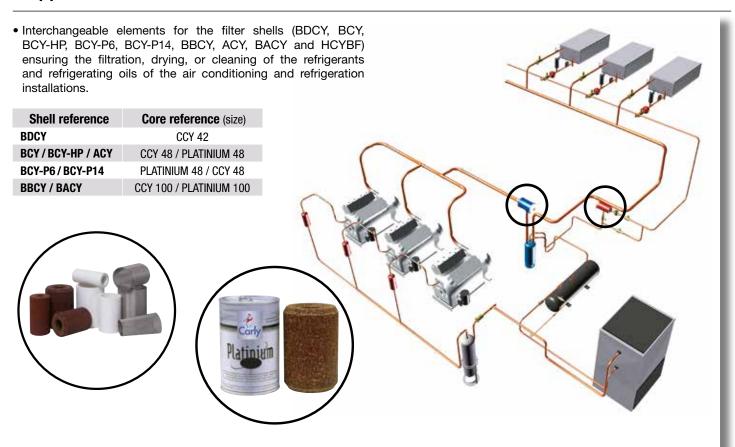


Drying, filtering and cleaning cores

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→ CCY / PLATINIUM

■ Applications



■ Functional features

- Products are compatible with HCFCs, HFCs, HFOs, CO₂, as well as with their associated oils and additives. Products are designed for use of refrigerants from group 2 and group 1 of PED 2014/68/EU. To use CARLY components 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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Drying, filtering and cleaning cores

→ CCY / PLATINIUM

■ 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.
- Be careful, some additive oils are not compatible with the activated alumina present in the CCY 42/48/100HP and N. It is your responsibility to verify this compatibility.





Drying, filtering and cleaning cores

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→ CCY / PLATINIUM

■ Functional features

OADLV		To be used with						Use						
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 HCFC, HFC, HFO, CO	
CCY 48 F			Χ					few days			10	Felt	Reinforced filtration	
CCY 100 F						Χ								
Stainless steel														
CCY 42 I	Χ											Stainless steel	For HCFC, HFC, HFO, CO ₂	
CCY 48 I			Χ		Χ			Permanent			140	mesh cloth and	Filtering	
CCY 100 I						Χ						screen	,	
High efficiency		g core	S						_		_			
CCY 42 HP	X							Temporary a	Permanent			Chemical	For HCFC, HFC, HFO, CO ₂	
CCY 48 HP		Χ	Χ		X	.,		few days	until		50	agents	Reinforced drying acid neutralization	
CCY 100 HP				Χ		Χ			saturation				aciu neutranzation	
Very hich efficie	ency	drying	cores											
PLATINIUM 48		Χ	Χ		X			Temporary a	Permanent until		50	Chemical	For HCFC, HFC, HFO, CO ₂	
PLATINIUM 100				Χ		Χ		few days saturation				agents	Optimum drying	
Cleaning cores														
CCY 42 N	Х												For HCFC, HFC, HFO, 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	





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Drying, filtering and cleaning cores

→ CCY HP / PLATINIUM / CCY N

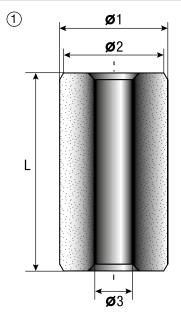
■ Selection table of drying and cleaning cores

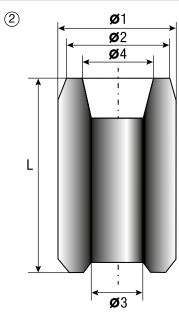
CARLY References	Filtering surface	Volume of desiccation	Dehydratable refrigerant capacity kg of refrigerant (1)							
		products	R22 R450A R134a R1233zd			R407F R452A R407C R513A R1234ze		R404A R507 R455A R410A R448A R449A		
	cm ²	cm ³	24 °C	52 °C	24 °C	52 °C	24 °C	52 °C	24 °C	
CCY 42 HP	374	645	47	40	45	38	42	36	29	
CCY 48 HP	420	704	55	48	52	46	49	43	34	
CCY 100 HP	630	1495	110	95	105	90	98	85	67	
PLATINIUM 48	420	704	72	62	69	59	64	55	44	
PLATINIUM 100	630	1495	144	123	137	117	128	110	87	
CCY 42 N	374	645	47	40	45	38	42	36	29	
CCY 48 N	420	704	55	48	52	46	49	43	34	
CCY 100 N	630	1495	110	95	104,7	90,4	98,1	84,7	67	

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

■ Technical features of drying and cleaning cores

CARLY References	Drawing Nb	Dimensions mm						
		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		







Carly

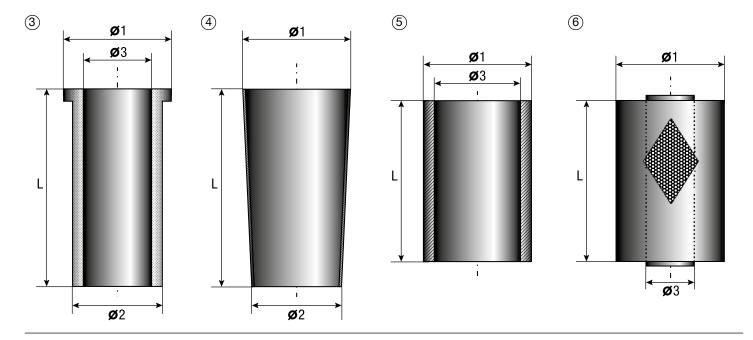
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Drying, filtering and cleaning cores

F / CCY I / CCY HU

■ Selection table and technical features of filtering cores

CARLY References	Drawing Nb	Surface de filtration cm ²		Dimens	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	65	-40
CCY 48 F	5	420	93	/	75	140	65	-40
CCY 100 F	5	630	122	/	105	166	65	-40
CCY 42 I	4	348	81	62	/	155	1	/
CCY 48 I	5	420	93	/	/	140	/	/
CCY 100 I	5	630	122	/	/	166	/	1
CCY 48 HU	6	5790	101	1	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

Carly Refrigeration Components Solutions



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Drying, filtering and cleaning cores

→ 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 packaging	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	