

ARPEGE

Vessels of 40 up to 170 litres designed for long term storage of biological samples in straws, cryo-vials and bags.



page 54



Electronic

- ▶ **Maximum storage – 6000 cryo-vials**
- ▶ **Storage in Gas or Liquid phase**
- ▶ **Vessels comply with the EC Medical Directive 93/42 EEC**
- ▶ **Static holding time up to 246 days**
- ▶ **A variety of electronic options on all models**
- ▶ **Rack or canister storage systems for the samples**
- ▶ **AIR LIQUIDE patented clip system to secure the sample boxes in the racks**
- ▶ **6 year guarantee on the vacuum**

Main characteristics include

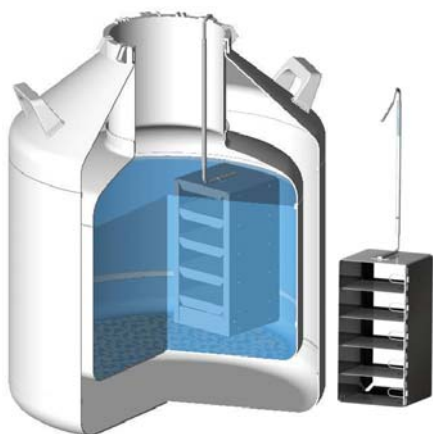
- ▶ Vessels delivered with the racks or canisters inside
- ▶ **Option to buy the vessels without any electronic or storage system (see product table)**
- ▶ Security lid with a lock point (not available on ARPEGE 55 & 75, lock not included)
- ▶ Made out of aluminum and composite materials provides for light weight and longer holding time





Application areas include:
Life sciences, insemination centers, egg
and sperm banks, IVF, pharmaceutical
labs...

ARPEGE liquid phase



ARPEGE gas phase

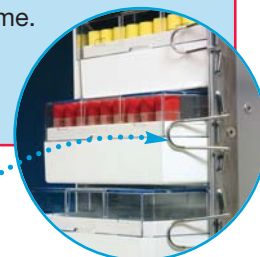


Maximizing security when
handling a rack and the sample
boxes in the rack. Thanks to
AIR LIQUIDE' s patented clip
closure system ®, each level of
the storage rack has its own clip
system to secure and keep the
storage boxes in each level of
the rack allowing the user to
access only one level of
a rack at a time.

Electronic options

- ▶ Level indicator and / or regulation and...
- ▶ Temperature indicator
- ▶ Level indicator – regulation (except ARPEGE 40)

A system designed to
secure and keep each
storage box in its place in
the rack.



		Liquid phase		Gas Phase		liquid						
ARPEGE						liquid and gas						
						40	70	110	140	170	55	75
CHARACTERISTICS												
Liquid capacity	l					40	72	116	144	172	55	72
							15	15	20	20		
Weight empty	kg					57	91	136	166	195	75	95
							50	60	73	77		
Static holding time	d					140	130	193	222	246	23	29
							25	23	30	28		
Diameter of neck	mm					120	215	215	215	215	378	378
Weight empty	kg					25	33	42	50	56	31	37
External diameter	mm					467	586	586	683	683	468	468
Total height	mm					735	738	962	911	1 028	755	930
Daily evaporation rate	l/d ¹⁾					0.29	0.6	0.65	0.65	0.7	2.4	2.5

1) Daily evaporation and static holding time are given for the following conditions: 20°C, 1 013 mb, and vessel is stationary with lid closed.

These are nominal values and may vary according to the history of the vessel and the manufacturing tolerances.

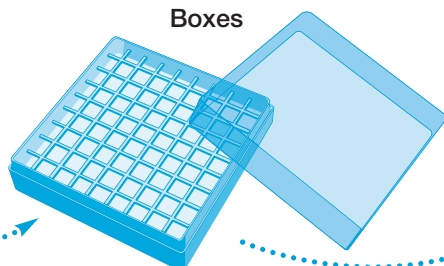
2) Indicative value may vary greatly based on the time the vessel did not have its lid closed.

ARPEGE 40 – 170 – Cryo-vials

Cryo-vials



Boxes



Rack



Rack clips ®
AIR LIQUIDE



OPTIMAL		Tele-Monitoring	
INITIAL / ESSENTIAL			
SIMPLE	BASIC	CHOICE I:	CHOICE II:
without racks without electronics	including racks without electronics	level indicator N temperature indicator T Automatic filling R	4/20mA box RS485 box



* page 54



Liquid phase



Gas Phase

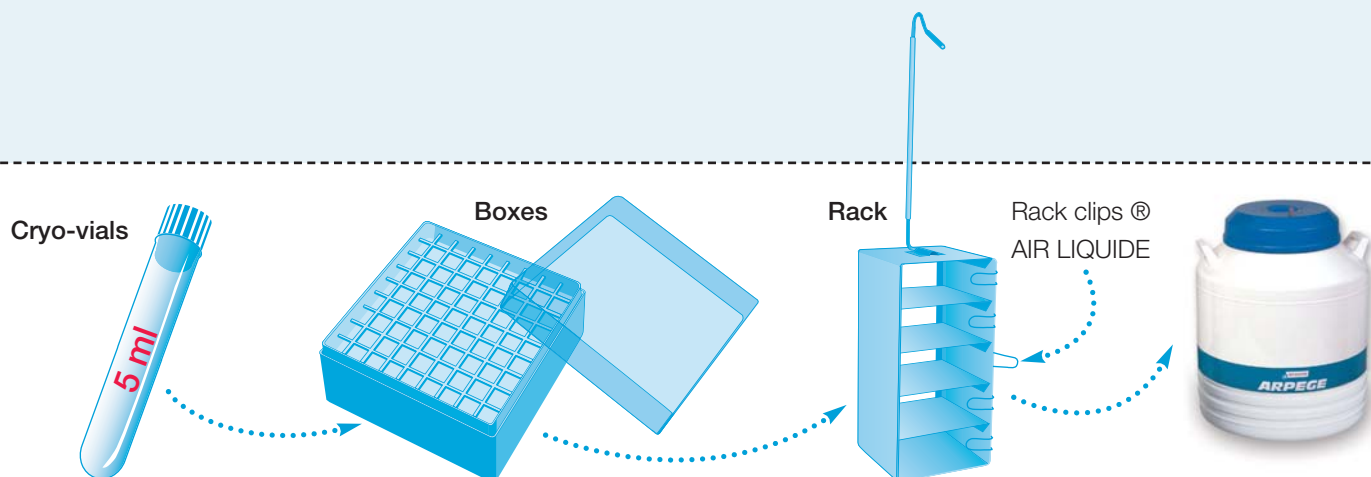
Arpege – Rack for cryo-vials 1.2 / 2ml			40	70	110	140	170
Number of racks			6	4	4	6	6
Number of cryo-vials per box of 25			25	81/100	81/100	81/100	81/100
Number of levels per rack			5	5	9	8	10
			—	4	8	7	9
Number of cryo-vials 1.2 / 2ml			750 ¹⁾	2,000 ²⁾	3,600 ²⁾	4,800 ²⁾	6,000 ²⁾
			—	1,600 ²⁾	3,200 ²⁾	4,200 ²⁾	5,400 ²⁾
SIMPLE without racks, without electronics			ARPEGE40-L-1 —	ARPEGE70-L-1 ARPEGE70-G-1	ARPEGE110-L-1 ARPEGE110-G-1	ARPEGE140-L-1 ARPEGE140-G-1	ARPEGE170-L-1 ARPEGE170-G-1
BASIC includes: racks cryo-vials 2ml, without electronics			ARPEGE40-L-100 —	ARPEGE70-L-100 —	ARPEGE110-L-100 —	ARPEGE140-L-100 —	ARPEGE170-L-100 —
INITIAL N + T			ARPEGE40-L-102 —	ARPEGE70-L-102 —	ARPEGE110-L-102 —	ARPEGE140-L-102 —	ARPEGE170-L-102 —
ESSENTIAL N + T + R			— —	ARPEGE70-L-104 ARPEGE70-G-104	ARPEGE110-L-104 ARPEGE110-G-104	ARPEGE140-L-104 ARPEGE140-G-104	ARPEGE170-L-104 ARPEGE170-G-104
OPTIMAL N + T + R + 4/20mA box			— —	ARPEGE70-L-107 ARPEGE70-G-107	ARPEGE110-L-107 ARPEGE110-G-107	ARPEGE140-L-107 ARPEGE140-G-107	ARPEGE170-L-107 ARPEGE170-G-107
OPTIMAL N + T + R + RS485 box			— —	ARPEGE70-L-108 ARPEGE70-G-108	ARPEGE110-L-108 ARPEGE110-G-108	ARPEGE140-L-108 ARPEGE140-G-108	ARPEGE170-L-108 ARPEGE170-G-108

MAIN ACCESSORY REFERENCES

A1: Roller base (height: 220 mm)	ACC-ALU-29	ACC-ALU-30
A1: Non magnetic roller base (height: 205 mm)	ACC-ALU-31	—
B: Fixation kit for the roller base (3 parts)		ACC-ALU-32
C: Flexible transfer hose with (DN10) – 180/180 for nitrogen length =1.5 m	— ³⁾	ACC-FL180180NL-15
D: Set of boxes	ACC-BOXTUBE-105 ⁴⁾	ACC-BOXTUBE-104 ⁵⁾

1) in boxes 76 x 76 x 51 mm (25) 2) in boxes 133 x 133 x 512 mm (81 or 100) 3) ARPEGE 40: automatic filling is not available

4) set of 8 boxes 76 x 76 x 51 mm (25) 5) set of 10 boxes 133 x 133x 512 mm (81 or 100)



OPTIMAL		Tele-Monitoring	
INITIAL / ESSENTIAL			
SIMPLE without racks without electronics	BASIC including racks without electronics	CHOICE I: level indicator N temperature indicator T Automatic filling A	CHOICE II: 4/20mA box RS485 box

* page 52/53



* page 54

Liquid phase

Gas Phase

Arpege – Rack for cryo-vials 5 ml

			70	110	140	170
Number of	racks		4	4	6	6
Number of	cryo-vials per box		81	81	81	81
Number of	levels per rack		3	5	4	5
			2	4	3	4
Number of	cryo-vials 5 ml		972	1,620	1,944	2,430
			648	1,296	1,458	1,944
SIMPLE	without racks, without electronics		ARPEGE70-L-1	ARPEGE110-L-1	ARPEGE140-L-1	ARPEGE170-L-1
			ARPEGE70-G-1	ARPEGE110-G-1	ARPEGE140-G-1	ARPEGE170-G-1
BASIC	includes: racks for cryo-vials 5 ml without electronics		ARPEGE70-L-200	ARPEGE110-L-200	ARPEGE140-L-200	ARPEGE170-L-200
			–	–	–	–
INITIAL	N + T		ARPEGE70-L-202	ARPEGE110-L-202	ARPEGE140-L-202	ARPEGE170-L-202
			–	–	–	–
ESSENTIAL	N + T + R		ARPEGE70-L-204	ARPEGE110-L-204	ARPEGE140-L-204	ARPEGE170-L-204
			ARPEGE70-G-204	ARPEGE110-G-204	ARPEGE140-G-204	ARPEGE170-G-204
OPTIMAL	N + T + R + 4/20mA box		ARPEGE70-L-207	ARPEGE110-L-207	ARPEGE140-L-207	ARPEGE170-L-207
			ARPEGE70-G-207	ARPEGE110-G-207	ARPEGE140-G-207	ARPEGE170-G-207
OPTIMAL	N + T + R + RS485 box		ARPEGE70-L-208	ARPEGE110-L-208	ARPEGE140-L-208	ARPEGE170-L-208
			ARPEGE70-G-208	ARPEGE110-G-208	ARPEGE140-G-208	ARPEGE170-G-208

MAIN ACCESSORY REFERENCES

A: Roller base lockable (height: 220 mm)	ACC-ALU-30
B: Fixation kit for the roller base (3 parts)	ACC-ALU-32
C: Flexible transfer hose with (DN10) – 180/180 for nitrogen length = 1.5m -1	ACC-FL180180NL-15
D: Set of 4 boxes 133 x 133 x 512 mm ¹⁾	ACC-BOXTUBE-107

1) 81 boxes

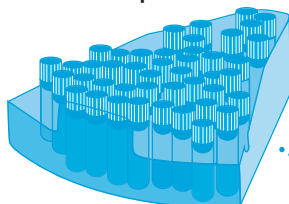
ARPEGE 55 and 75

Cryo-vials

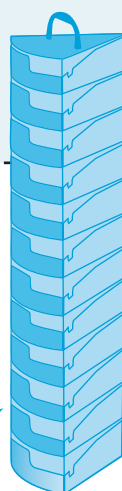
Cryo-vials



Rack type "Camembert"
or pie



Rack



OPTIMAL		Tele-Monitoring	
INITIAL / ESSENTIAL			
SIMPLE	BASIC	CHOICE I:	CHOICE II:
without racks	including racks	level indicator N	4/20mA box
without electronics	without electronics	temperature indicator T	RS 485 box
		Automatic filling A	



* page 54

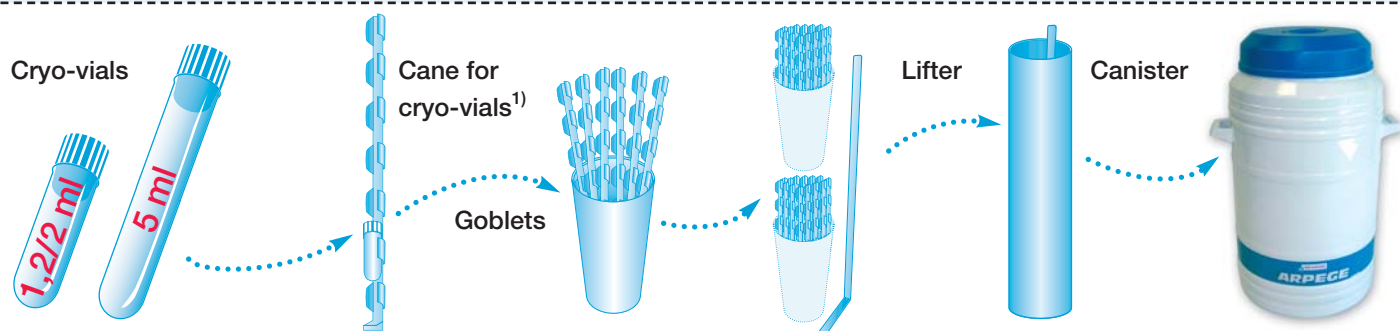
Liquid phase

Arpege – Rack for cryo-vials 1.2 / 2ml			55	75
Number of	racks		6 ¹⁾	6 ¹⁾
Number of	levels per rack		9	12
Number of	cryo-vials per box		67	67
Number of	cryo-vials 1.2 / 2ml		3,618	4,824
SIMPLE	without racks, without electronics		ARPEGE55-L-1	ARPEGE75-L-1
BASIC	includes: racks for cryo-vials 1.2 / 2ml, without electronic		ARPEGE55-L-100	ARPEGE75-L-100
INITIAL	N + T		ARPEGE55-L-102	ARPEGE75-L-102
ESSENTIAL	N + T + R		ARPEGE55-L-104	ARPEGE75-L-104
OPTIMAL	N + T + R + 4/20mA box		ARPEGE55-L-107	ARPEGE75-L-107
OPTIMAL	N + RA + RS485 box		ARPEGE55-L-108	ARPEGE75-L-108

MAIN ACCESSORY REFERENCES

A1: Roller base – lockable (height: 220 mm)	ACC-ALU-29
A1: Non magnetic roller base – lockable (height: 205 mm)	ACC-ALU-31
B: Fixation kit for the roller base (3 parts)	ACC-ALU-32
C: Flexible transfer hose with (DN10) – 180/180 for nitrogen length = 1.5m	ACC-FL180180NL-15

1) with electronic kit and maximum of 5 racks



OPTIMAL		Tele-Monitoring	
INITIAL / ESSENTIAL			
SIMPLE	BASIC	CHOICE I:	CHOICE II:
without racks	including racks	level indicator N	4/20mA box
without electronics	without electronics	temperature indicator T	RS 485 box
		automatic filling R	

* page 52/53



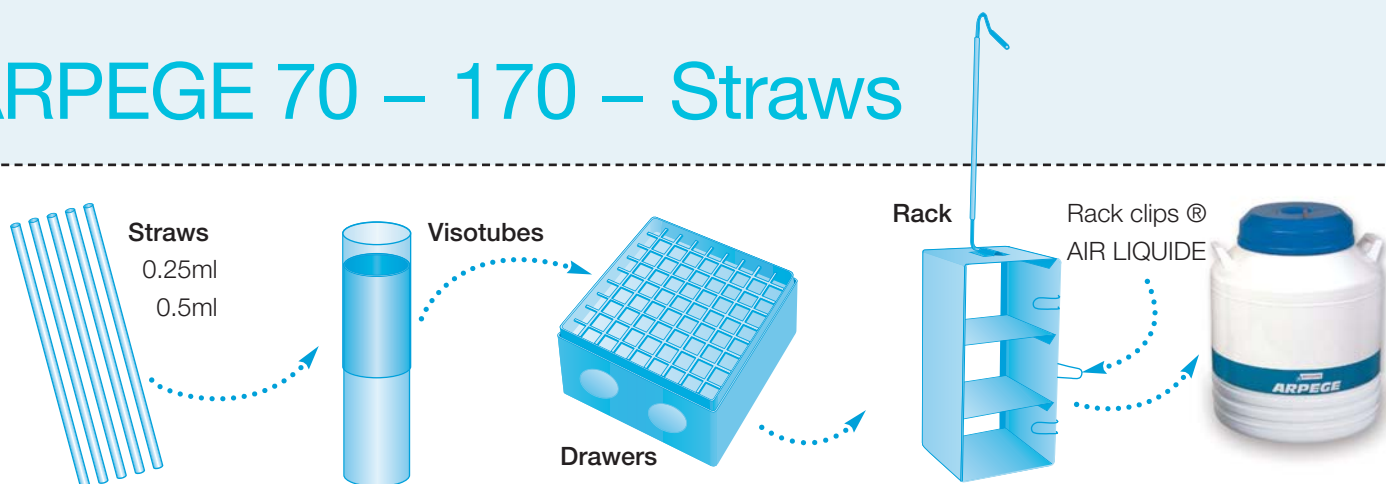
* page 54

Liquid phase

Arpege – Canisters pour cryo-tubes 2 / 5ml & gobelet		55	75
Number of canisters		21	21
Number of goblets per canister		1	2
Number of cryo-vial canes per goblet		17	17
Number of cryo-vials 1.2 / 2ml		2,142	4,284
Number of cryo-vials 5ml		1,071	2,142
BASIC includes. canisters for cryo-vials 2 / 5ml + goblets + lifter		ARPEGE55-L-200	ARPEGE75-L-200
INITIAL N + T		ARPEGE55-L-202	ARPEGE75-L-202
ESSENTIAL N + T + R		ARPEGE55-L-204	ARPEGE75-L-204
OPTIMAL N + T + R + 4/20mA box		ARPEGE55-L-207	ARPEGE75-L-207
OPTIMAL N + T + R + RS485 box		ARPEGE55-L-208	ARPEGE75-L-208
MAIN ACCESSORY REFERENCES			
A1: Roller base – lockable (height: 220 mm)		ACC-ALU-29	
A2: Non magnetic roller base – lockable (height: 205 mm)		ACC-ALU-31	
B: Fixation kit for the roller base (3 parts)		ACC-ALU-32	
C: Flexible transfer hose with (DN10) – 180/180 for nitrogen length =1.5m		ACC-FL180180NL-15	

1) Maximum 6 cryo-vials 2ml per cane. Maximum 3 cryo-vials 5ml per cane.

ARPEGE 70 – 170 – Straws



OPTIMAL		Tele-Monitoring	
INITIAL / ESSENTIAL			
SIMPLE	BASIC	CHOICE I:	CHOICE II:
without racks	including racks	level indicators N	4/20mA box
without electronics	without electronics	temperature indicator T	RS 485 box
		automatic filling R	

* page 52/53



* page 54

Liquid phase

Gas Phase

Arpege – Racks pour paillettes				70	110	140	170
Number of	racks			4	4	6	6
Number of	levels per rack ¹⁾			2	3	3	4
Number of	visotubes ²⁾ per level			85	85	85	85
Number of	0.25ml straws ¹⁾			15,040	23,460	35,190	46,920
Number of	0.5ml straws ¹⁾			6,120	9,180	13,770	18,360
Number of	CBS™ (0.3ml – 0.5ml) straws ¹⁾			4,080	6,120	9,180	12,240
SIMPLE	without racks, without electronics			ARPEGE70-L-1	ARPEGE110-L-1	ARPEGE140-L-1	ARPEGE170-L-1
				–	–	–	–
BASIC	includes. racks for straws, without electronics			ARPEGE70-L-300	ARPEGE110-L-300	ARPEGE140-L-300	ARPEGE170-L-300
				–	–	–	–
INITIAL	N + T			ARPEGE70-L-302	ARPEGE110-L-302	ARPEGE140-L-302	ARPEGE170-L-302
				–	–	–	–
ESSENTIAL	N + T + R			ARPEGE70-L-304	ARPEGE110-L-304	ARPEGE140-L-304	ARPEGE170-L-304
				ARPEGE70-G-304	ARPEGE110-G-304	ARPEGE140-G-304	ARPEGE170-G-304
OPTIMAL	N + T + R + 4/20mA box			ARPEGE70-L-307	ARPEGE110-L-307	ARPEGE140-L-307	ARPEGE170-L-307
				ARPEGE70-G-307	ARPEGE110-G-307	ARPEGE140-G-307	ARPEGE170-G-307
OPTIMAL	N + T + R + RS485 box			ARPEGE70-L-308	ARPEGE110-L-308	ARPEGE140-L-308	ARPEGE170-L-308
				ARPEGE70-G-308	ARPEGE110-G-308	ARPEGE140-G-308	ARPEGE170-G-308

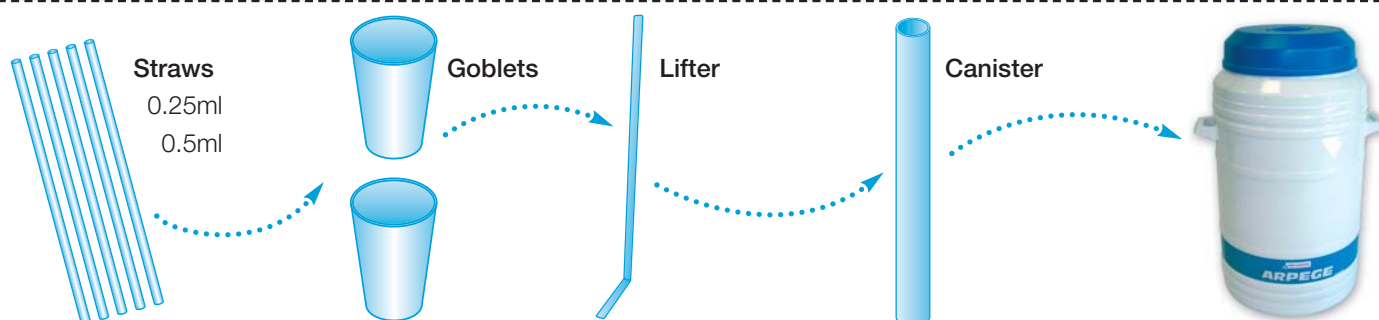
MAIN ACCESSORY REFERENCES

A: Roller base lockable (height: 220 mm)	ACC-ALU-30
B: Fixation kit for the roller base (3 parts)	ACC-ALU-32
C: Flexible transfer hose with (DN10) – 180/180 for nitrogen length = 1.5m	ACC-FL180180NL-15
D: Batch of 100 Visotubes with lids	ACC-BOXTUBE-5

1) Storage capacity of straws in liquid phase vessels, please contact AL DMC for storage capacity of straws in gas phase vessels.

2) Visotubes ø 12 mm with lid

ARPEGE 55 et 75 – Straws



	OPTIMAL			Tele-Monitoring
	INITIAL / ESSENTIAL			
SIMPLE	BASIC	CHOICE I:		CHOICE II:
without canisters	includes: canisters	level indicator	N	4/20mA box
without electronics	without electronics	temperature indicator	T	RS485 box
		Automatic filling	R	

* page 52/53



* page 54

Liquid phase

Arpege – Canisters pour paillettes & gobelets		55	75
Number of canisters		21	21
Number of goblets per canister		3	4
Number of 0.25ml straws		51,660	68,880
Number of 0.5ml straws		22,995	30,660
Number of CBS™ (0.3ml – 0.5ml) straws		14,175	18,900
SIMPLE without canisters, without electronics		ARPEGE55-L-1	ARPEGE75-L-1
BASIC includes: canisters for straws + goblets + lifter		ARPEGE55-L-300	ARPEGE75-L-300
INITIAL N + T		ARPEGE55-L-302	ARPEGE75-L-302
ESSENTIAL N + T + R		ARPEGE55-L-304	ARPEGE75-L-304
OPTIMAL N + T + R + 4/20mA box		ARPEGE55-L-307	ARPEGE75-L-307
OPTIMAL N + T + R + RS485 box		ARPEGE55-L-308	ARPEGE75-L-308

MAIN ACCESSORY REFERENCES	
A1: Roller base – lockable (height: 220 mm)	ACC-ALU-29
A2: Non magnetic roller base – lockable (height: 205 mm)	ACC-ALU-31
B: Fixation kit for the roller base (3 parts)	ACC-ALU-32
C: Flexible transfer hose with (DN10) – 180/180 for nitrogen length =1.5m	ACC-FL180180NL-15
D: Grouped (canisters + goblets)	ACC-PLASCAN-109 ¹⁾ ACC-PLASCAN-107 ²⁾
E: Set of 10 marguerite goblets ø 65mm + lids	ACC-BOXTUBE-302

1) ARPEGE 55: 21 canisters + 63 goblets

2) ARPEGE 55: 21 canisters + 84 goblets