

ANKERSMID Peltier cooler

APC 14xx/16xx Series

Application

Ankersmid Peltier Coolers are used to lower the dew point of humid gas to avoid condensate entering into the gas analyser.

A good and stable gas dew point avoids cross-interference if the analyser is sensitive to H_2O .

PELTIER COOLER APC 1400 series * Pictures may vary

Description

This unique microprocessor controlled Peltier Cooler has been designed with two powerful Peltier elements and an unique patented heat-pipe system. The dew-point is set at +4°C but can be changed at any value between 1 and 15°C. The condensate that is formed should be removed by a peristaltic pump, automatic drain or collection vessel.

The heat exchanger is demountable and PFA®-coated.

The digital controlled cooler has many control and warning features like programmable alarms, mA-output, digital inputs and Modbus or RS485 communication.

The alarm status changes when the temperature deviates by \bullet \pm 3°C from the set point.

Available for 230VAC and 115VAC power supply.

- Special demountable heatexchanger with unique design
- Digital controlled high stable outlet dew point ± 0,1°C
- Ambient temperature up to +50°C
- Alarm contact
- Optional digital communication Modbus/RS485
- Power supply 115/230VAC
- Universal housing for 2 different versions; 1x 250NI/h or 1x 350NI/h
- Isolation cap for heat exchanger head to avoid condensation



ANKERSMID Peltier cooler

Technical data

APC 14xx/16xx Series

Model APC xxxx	14x3	16x3
Number of heat exchanger	1	
Housing version	Stainless steel/Aluminum anodized, Wall-mounting	
Dimensions (HxLxD)	200 x 280) x 190mm
Data per heat exchanger		
Gas flow rate	1x 250NI/h max.	1x 350Nl/h max.
Sealing	Vite	on [®]
Maximum pressure	10	bar a
Pressure drop	3mbar at 200Nl/h	5mbar at 350NI/h
Dead volume	35	cm ³
Sample gas inlet	1x 1/4	4"f NPT
Sample gas outlet	1x 1/4"f NPT	
Condensate outlet	1x 3/8"f NPT	
Material of gas wetted parts	PFA [®]	
Operation data		
Gas inlet dew point	Max	. 50°C
Gas inlet temperature	Max.	190°C
Gas outlet temperature	+1°C +15°C, factory setting: +4°C	
Total cooling capacity	Max. 245kJ/h	
Stability	0,1°C at ambient temperature 20°C	
Ambient temperature	+5°C t	to +45°C
Electrical data general		
Mains connection	Electrical terminals 2,5mm ² / Cable gland 2 x PG13	
Alarm contact	Free programmable contact 1NO / 1NC, rating: 250V, 16A AC	
Alarm set points	< +2°C / > +8°C	
Protection class	IP20 EN 60529 / EN 61010	
Electrical protection	Fuse 1,6A	
Power consumption	2 Peltier elements á 34W	
Weight	4,0 kg	4,5 kg
Model APC	1403	1603
Power supply	230VAC, 50/60Hz	
Model APC	1413 1613	
Power supply	115VAC, 50/60Hz	

Maximum values in technical data's must be rated in consideration of total cooling capacity at 25°C ambient temperature and 5°C outlet dew point PTFE = Polytetrafluoroethylene (Teflon®) PVDF = Polyvinylidenfluoride

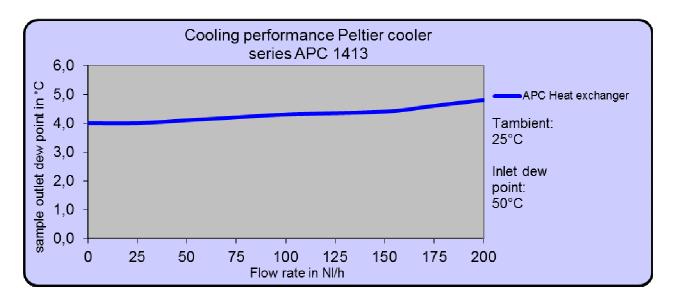
FFPM = Perfluorelastomer (Kalrez®) PPS = Polypropylenesulphide (Ryton®)



ANKERSMID Peltier cooler

Performance

APC 14xx/16xx Series





Price List 2018

Part no.

Ankersmid Peltier Cooler Series APC

List price



Pictures:

Series APC

APC 1403	Peltier gas cooler type APC 1403 in a stainless steel housing for wall-mounting. With 1 heat exchanger for 1x 250NI/h, material of gas wetted parts: PFA®. Electronically controlled at 4°C, digital display, high/low alarm contact. Connections: 1/4"f NPT (gas inlet/outlet), 3/8"f NPT (condensate outlet). Power: 230VAC	€ 2.090,00	Pc.	_
APC 1603	Peltier gas cooler type APC 1603 in a stainless steel housing for wall-mounting. With 1 heat exchanger for 1x 350NI/h, material of gas wetted parts: PFA®. Electronically controlled at 4°C, digital display, high/low alarm contact. Connections: 1/4"F NPT (gas injet/quitlet): 3/8"f NPT (condensate outlet). Power: 230VAC	€ 2.990,00	Pc.	Ī

Options

APC 015	Option for cooler APC 1xxx, power supply 115V/60Hz instead of standard 230V/50Hz	€ 0,00	Pc.	
VDC. U1U	Extra charge for Peltier coolers series APC xxx with integrated electronic temperature controller, incl. high/low alarm (combined) and RS 485 Modbus interface	€ 270,00	Pc.	Ī

Spare parts

Heat exchanger spindle for ACP cooler series APC 14xx/15xx, until 03/2015. Incl. O-ring. Materials: PFA®, Viton®. Connections: 1/4"f NPT (gas outlet), 3/8"f NPT (condensate outlet) Heat exchanger spindle for ACP cooler series ACC tax neo, ACC 4xx neo, APC 1403, APC 1503, from 04/2015. Incl. O-ring. Materials: PFA®, Viton®. Connections: 1/4"f NPT (gas inlet/outlet), 3/8"f NPT (condensate outlet) APC 156 Heat exchanger spindle for ACP cooler series APC 16xx. Incl. O-ring. Materials: PFA®, Viton®. Connections: 1/4"f NPT (gas outlet), 3/8"f NPT (condensate outlet) APC 120 Thermal conductivity paste (5gr.) APC 121 Thermal conductivity paste (5gr.) APC 130 Power transistor for Peltier cooler series APC 1xxx APC 131 Peltier element for Peltier cooler series APC 1xxx APC 132 Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x. Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 141 Power supply for Peltier cooler series APC 1xxx APC 142 Insulation set for Peltier cooler series APC 3xx APC 143 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 APC 137 APC 138 Fan for Peltier cooler series APC 1xxx APC 139 APC 139 Fan for Peltier cooler series APC 1xxx APC 130 APC 131 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 APC 137 APC 138 APC 139 Fan for Peltier cooler series APC 1xxx APC 139 APC 130 Fan for heat exchanger system series APC 1xxx APC 130 APC 131 Fan for heat exchanger system series APC 15xx APC 132 APC 135 Fan for heat exchanger system series APC 15xx APC 136 APC 137 Fan for heat exchanger system series APC 15xx APC 139 Fan for heat exchanger system series APC 16xx APC 130 Fan for heat exchanger system series APC 16xx APC 131 Fan for heat exchanger system series APC 16xx APC 132 Fan for heat exchanger system series APC 16xx				
ACC 155 ACC 155 Heat exchanger spindle for ACC cooler series ACC 1xx neo, ACC 4xx neo, APC 1403, APC 1503, from 04/2015. Incl. O-ring. Materials: PFA®. Viton®. Connections: 1/4"F NPT (gas outlet), 3/8"f NPT (condensate outlet) Heat exchanger spindle for ACP cooler series APC 16xx. Incl. O-ring. Heat exchanger spindle for ACP cooler series APC 16xx. Incl. O-ring. Materials: PFA®. Viton®. Connections: 1/4"F NPT (gas outlet), 3/8"f NPT (condensate outlet) Heat exchanger spindle for ACP cooler series APC 16xx. Incl. O-ring. Materials: PFA®, Viton®. Connections: 1/4"F NPT (gas outlet), 3/8"f NPT (condensate outlet) APC 120 Thermal conductivity paste (5gr.) APC 121 Thermal conductivity paste (5gr.) APC 130 Power transistor for Peltier cooler series APC 1xxx APC 131 APC 132 Temperature sensor Pt100 for Peltier cooler series APC 1xxx APC 133 Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x. Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 141 Insulation set for Peltier cooler series APC 1xxx APC 142 Insulation set for Peltier cooler series APC 1xxx APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx € 90,00 Pc. APC 185 O-ring for heat exchanger system series APC 14xx, ACC1xx/4xx, material: Viton® APC 190 Isolation cap for heat exchanger system series APC 14xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx € 42,00 Pc. APC 192 Isolation cap for heat exchanger system series APC 15xx € 42,00 Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx	APC 155		€ 370,00 P	Pc.
Materials: PFA®, Viton®. Connections: 1/4"f NPT (qas inlet/outlet), 3/8"f NPT (condensate outlet) APC 156 Heat exchanger spindle for ACP cooler series APC 16xx. Incl. O-ring. Materials: PFA®, Viton®. Connections: 1/4"f NPT (gas outlet), 3/8"f NPT (condensate outlet) APC 120 Thermal conductivity paste (5gr.) APC 121 Thermal conductivity paste (5gr.) APC 132 Power transistor for Peltier cooler series APC 1xxx APC 133 Power transistor for Peltier cooler series APC 1xxx APC 134 Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x. Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 141 Insulation set for Peltier cooler series APC 3xx APC 142 Insulation set for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 143 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx € 90,00 Pc. APC 185 O-ring for heat exchanger system series APC 16xx, material: Viton® APC 191 Isolation cap for heat exchanger system series APC 15xx € 42,00 Pc. APC 192 Isolation cap for heat exchanger system series APC 15xx € 42,00 Pc. APC 192 Isolation cap for heat exchanger system series APC 15xx € 42,00 Pc.	7 10 100		C 100/00	
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Materials: PFA®, Viton®. Connections: 1/4"f NPT (gas outlet), 3/8"f NPT (condensate outlet) APC 120 Thermal conductivity paste (5gr.) APC 121 Thermal conductivity paste (50gr.) APC 130 Power transistor for Peltier cooler series APC 1xxx APC 131 Temperature sensor Pt100 for Peltier cooler series APC 1xxx APC 132 Temperature sensor Pt100 for Peltier cooler series APC 1xxx APC 133 Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 141 Insulation set for Peltier cooler series APC 3xx APC 142 Insulation set for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx APC 185 O-ring for heat exchanger system series APC 16xx, material: Viton® APC 186 O-ring for heat exchanger system series APC 14xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx E 42,00 Pc. APC 192 Isolation cap for heat exchanger system series APC 15xx E 42,00 Pc.	7.00 100		0 37 0/00	
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APC 130 Power transistor for Peltier cooler series APC 1xxx APC 132 Temperature sensor Pt100 for Peltier cooler series APC 1xxx APC 133 Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x. Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 141 Insulation set for Peltier cooler series APC 3xx APC 142 Insulation set for Peltier cooler series APC 3xx APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx APC 137 For Peltier cooler series APC 1xxx and gas conditioning systems series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx APC 137 For Peltier cooler series APC 1xxx APC 138 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® APC 189 Isolation cap for heat exchanger system series APC 14xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 16xx APC 193 Isolation cap for heat exchanger system series APC 15xx APC 194 Isolation cap for heat exchanger system series APC 15xx APC 195 Isolation cap for heat exchanger system series APC 15xx APC 196 Isolation cap for heat exchanger system series APC 15xx APC 197 Isolation cap for heat exchanger system series APC 16xx APC 198 Isolation cap for heat exchanger system series APC 16xx APC 199 Isolation cap for heat exchanger system series APC 16xx	APC 120	Thermal conductivity paste (5gr.)	€ 5,25	Pc.
APC 132 Temperature sensor Pt100 for Peltier cooler series APC 1xxx APC 133 Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x. Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 142 Insulation set for Peltier cooler series APC 3xx APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx APC 137 Fan for Peltier cooler series APC 1xxx APC 138 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® APC 186 O-ring for heat exchanger system series APC 14xx APC 190 Isolation cap for heat exchanger system series APC 14xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx APC 193 Isolation cap for heat exchanger system series APC 15xx APC 194 Isolation cap for heat exchanger system series APC 15xx APC 195 Isolation cap for heat exchanger system series APC 15xx APC 196 Isolation cap for heat exchanger system series APC 15xx APC 197 Isolation cap for heat exchanger system series APC 15xx APC 198 Isolation cap for heat exchanger system series APC 15xx APC 199 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 16xx APC 190 Isolation cap for heat exchanger system series APC 16xx	APC 121	Thermal conductivity paste (50gr.)	€ 31,50	Pc.
Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x. Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 142 Insulation set for Peltier cooler series APC 3xx APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx APC 185 O-ring for heat exchanger system series APC 16xx, material: Viton® APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® APC 187 APC 188 Isolation cap for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® APC 190 Isolation cap for heat exchanger system series APC 14xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx APC 193 Isolation cap for heat exchanger system series APC 15xx APC 194 Isolation cap for heat exchanger system series APC 15xx APC 195 Isolation cap for heat exchanger system series APC 15xx APC 196 Isolation cap for heat exchanger system series APC 15xx APC 197 Isolation cap for heat exchanger system series APC 15xx APC 198 Isolation cap for heat exchanger system series APC 15xx APC 199 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 16xx	APC 130	Power transistor for Peltier cooler series APC 1xxx	€ 19,95	Pc.
PC. 133 Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 142 Insulation set for Peltier cooler series APC 3xx APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx APC 185 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® APC 190 Isolation cap for heat exchanger system series APC 14xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx APC 193 Isolation cap for heat exchanger system series APC 15xx APC 194 Isolation cap for heat exchanger system series APC 15xx APC 195 Isolation cap for heat exchanger system series APC 15xx APC 196 Isolation cap for heat exchanger system series APC 15xx APC 197 Isolation cap for heat exchanger system series APC 15xx APC 198 Isolation cap for heat exchanger system series APC 15xx APC 199 Isolation cap for heat exchanger system series APC 15xx APC 199 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx APC 190 Isolation cap for heat exchanger system series APC 15xx	APC 132	Temperature sensor Pt100 for Peltier cooler series APC 1xxx	€ 57,75	Pc.
Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (Sgr.) APC 140 Power supply for Peltier cooler series APC 1xxx APC 142 Insulation set for Peltier cooler series APC 3xx APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 145 Fan for Peltier cooler series APC 1xxx with RS 485 interface. Power: 115/230VAC APC 186 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® APC 190 Isolation cap for heat exchanger system series APC 14xx APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 16xx APC 192 Isolation cap for heat exchanger system series APC 16xx APC 192 Isolation cap for heat exchanger system series APC 16xx APC 193 Isolation cap for heat exchanger system series APC 16xx APC 194 Isolation cap for heat exchanger system series APC 16xx APC 195 Isolation cap for heat exchanger system series APC 16xx APC 196 Isolation cap for heat exchanger system series APC 16xx APC 197 Isolation cap for heat exchanger system series APC 16xx APC 198 Isolation cap for heat exchanger system series APC 16xx	ADC 122	Peltier element for Peltier cooler series APC 1xxx and gas conditioning systems series APS 31x, ASS 31x.	€ 157,50 P	De
APC 142 Insulation set for Peltier cooler series APC 3xx $\in 120,75$ Pc. APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC $\in 315,00$ Pc. APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC $\in 450,00$ Pc. APC 136 Fan for Peltier cooler series APC 1xxx $\in 90,00$ Pc. APC 185 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® $\in 10,50$ Pc. APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® $\in 18,90$ Pc. APC 191 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 15xx APC 192 Isolation cap for heat exchanger system series APC 16xx APC 192 Isolation cap for heat exchanger system series APC 16xx $\notin 42,00$ Pc.	APC 133	Power consumption: 34W. Single-layer design. Incl. thermal conductivity paste (5gr.)	€ 157,50	PC.
APC 143 Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC APC 136 Fan for Peltier cooler series APC 1xxx $ \begin{array}{c} $	APC 140	Power supply for Peltier cooler series APC 1xxx	€ 294,00	Pc.
APC 144 Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: $115/230$ VAC $\in 450,00$ Pc. APC 136 Fan for Peltier cooler series APC 1xxx $\in 90,00$ Pc. APC 185 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® $\in 10,50$ Pc. APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® $\in 18,90$ Pc. APC 190 Isolation cap for heat exchanger system series APC 14xx $\in 42,00$ Pc. APC 191 Isolation cap for heat exchanger system series APC 15xx $\in 42,00$ Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx $\in 42,00$ Pc.	APC 142	Insulation set for Peltier cooler series APC 3xx	€ 120,75	Pc.
APC 136 Fan for Peltier cooler series APC 1xxx $\in 90,00$ Pc. APC 185 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® $\in 10,50$ Pc. APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® $\in 18,90$ Pc. APC 190 Isolation cap for heat exchanger system series APC 14xx $\in 42,00$ Pc. APC 191 Isolation cap for heat exchanger system series APC 15xx $\in 42,00$ Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx $\in 42,00$ Pc.	APC 143	Electronic controller type ATC 142 for Peltier cooler series APC 1xxx. Power: 115/230VAC	€ 315,00	Pc.
APC 185 O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton® $\in 10,50$ Pc. APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® $\in 18,90$ Pc. APC 190 Isolation cap for heat exchanger system series APC 14xx $\in 42,00$ Pc. APC 191 Isolation cap for heat exchanger system series APC 15xx $\in 42,00$ Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx $\in 42,00$ Pc.	APC 144	Electronic controller type ATC 142rs for Peltier cooler series APC 1xxx, with RS 485 interface. Power: 115/230VAC	€ 450,00	Pc.
APC 186 O-ring for heat exchanger system series APC 16xx, material: Viton® \in 18,90 Pc. APC 190 Isolation cap for heat exchanger system series APC 14xx \in 42,00 Pc. APC 191 Isolation cap for heat exchanger system series APC 15xx \in 42,00 Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx \in 42,00 Pc.	APC 136	Fan for Peltier cooler series APC 1xxx	€ 90,00	Pc.
APC 190 Isolation cap for heat exchanger system series APC 14xx $\in 42,00$ Pc. APC 191 Isolation cap for heat exchanger system series APC 15xx $\in 42,00$ Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx $\in 42,00$ Pc.	APC 185	O-ring for heat exchanger system series APC 14xx/15xx, ACC1xx/4xx, material: Viton®	€ 10,50	Pc.
APC 191 Isolation cap for heat exchanger system series APC 15xx $\in 42,00$ Pc. APC 192 Isolation cap for heat exchanger system series APC 16xx $\in 42,00$ Pc.	APC 186	O-ring for heat exchanger system series APC 16xx, material: Viton®	€ 18,90	Pc.
APC 192 Isolation cap for heat exchanger system series APC 16xx € 42,00 Pc.	APC 190	Isolation cap for heat exchanger system series APC 14xx	€ 42,00	Pc.
	APC 191	Isolation cap for heat exchanger system series APC 15xx	€ 42,00	Pc.
APC 123 Fine fuse 1AT (5 Pcs.) for Peltier cooler series APC € 10,50 Pc.	APC 192	Isolation cap for heat exchanger system series APC 16xx	€ 42,00	Pc.
	APC 123	Fine fuse 1AT (5 Pcs.) for Peltier cooler series APC	€ 10,50	Pc.