

Compressor Gas Cooler

CCA series



CCA

SS
GL
PV

جنس مبدل

1=150
2=250

NI/hr
فلوی گاز

1
2
4

تعداد مبدل

مدل یک / دو و چهار مبدله

۱۵۰ و ۲۵۰ لیتر بر ساعت

استیل ، شیشه ، تفلون

CCA-xxx1

CCA-xxx2

CCA-xxx4

Highlights :

- ✓ Gas outlet temperature from gas cooler adjusting from +2 °C to +7 °C
- ✓ Gas outlet temperature stability ± 0.1 °C
- ✓ 2 relays for Status Alarm Ready to work signal
- ✓ With PID electronic controller with digital display
- ✓ Working Ambient Temperature: 0...+50 °C
- ✓ Start-up time < 15 min and stable 2 hours in constant process condition
- ✓ Wall mount Enclosure and Standard 19" Rack mount
- ✓ Special Version for -40°C gas outlet dew point temperature

ویژگیها :

- ✓ تنظیم دمای نقطه شبنم خروجی از +2 °C تا +7 °C
- ✓ پایداری دمای تنظیم شده خروجی گاز ± 0.1 °C
- ✓ دو خروجی رله آلارم اعلام وضعیت آماده بکار
- ✓ PID کنترلر الکترونیکی با نمایشگر دیجیتالی دما
- ✓ دمای محیط کار 0...+50 °C
- ✓ زمان راه اندازی کمتر از ۱۵ دقیقه و پایداری ۲ ساعت
- ✓ بدنه دیواری و راک استاندارد ۱۹ اینچ
- ✓ مدل ویژه جهت دمای نقطه شبنم گاز خروجی -40°C

Applications:

Suitable to install in gas analyzer system of Cement, Steel plants

- For all gas analyzer system
- Instrument air drier at the using point

کاربردها :

نصب در سیستم های آنالایزر بر خط گاز در کلیه صنایع

- کلیه سیستمهای آنالایزر بر خط گاز
- خشک کن هوای ابزار دقیق در نقطه مصرف

1&2&4 heat exchanger Models:

- 9910C9100 For single Heat exchanger type
- 9910C9200 For two Heat exchangers type
- 9910C9400 For four Heat exchangers type

مدلهای یک و دو و چهار مبدل :

- 9910C9100 کولر تک مبدله
- 9910C9200 کولر دو مبدله
- 9910C9400 کولر چهار مبدله

Heat Exchanger Part NO:



9910C2150
150 NI/hr
IN/OUT: 1/4" SS
Drain: 3/8 FNTF



9910C1250
250 NI/hr
IN/OUT: 1/4" SS
Drain: 3/8 FNTF



Technical Information For CCA

1

HOW TO ORDER

CCA-□¹

Note 1: Heat Exchanger Materials Details in section 2

-□²

Note 2: gas flow rate of each Heat exchanger 1 = 150 NI/hr / 2= 250 NI/hr

□³

Note 3: last place is Number of Heat Exchangers 1/2/4

Example1: Gas cooler with 2 heat exchangers 150 NI/hr out of PVDF CCA-□¹ □²□³

CCA-PV12

gas flow: 1 = 150 NI/hr / 2= 250 NI/hr

No. of heat exchangers(1/2/4)

Example2: Gas cooler with 4 heat exchangers 250 NI/hr out of SS-316

CCA-SS24

2

Heat Exchanger Materials and Codes



GL

GL: Duran Glass (imported) Borosilicate glass



PV

PV: PVDF (manufactured by Arka Behbood Farayand) also similar Dimension of existing heat changer by order.



SS

SS: SS 316 (manufactured by Arka Behbood Farayand) also similar Dimension of existing GL and PV heat changer by order

1593K0140 , #1 Stream 250NI/h
1597K0100 , #2 Streams 150NI/h
1502K9100 , #4 Streams 250NI/h

1593K0170 , #1 Stream 250NI/h
1597K0110 , #2 Streams 150NI/h
1502K9300 , #4 Streams 250NI/h

9910C1250 , #1 Stream 250NI/h
9910C2150 , #2 Streams 150NI/h
9910C4250 , #4 Streams 250NI/h

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CCA Part No Technical Information

مشخصات فنی کولر تک مبدله

9910C9100 ⁴

Compressor gas cooler type CCA-xxx1. In panel version. depth of housing: 400mm. Prepared for one Jet-stream heat exchanger with 250NI/h. electronicl controlled at +5°C, high/low temperature alarm range and sample outlet dew point adjustable by incorporated electronic controller, temperature adjusted at +5°C, with 1 changeover contact, Thermometer with digital display: -10/+50°C. Power: 230V/50Hz.

Note 4: Part No 9910C9101 is similar to 9910C9100 with Power: 115V/50Hz.

مشخصات فنی کولر دو مبدله

9910C9200 ⁵

Compressor gas cooler type CCA-xxx2. In panel version. depth of housing: 400mm. Prepared for two Jet-stream heat exchanger with 150NI/h. electronicl controlled at +5°C, high/low temperature alarm range and sample outlet dew point adjustable by incorporated electronic controller, temperature adjusted at +5°C, with 1 changeover contact, Thermometer with digital display: -10/+50°C. Power: 230V/50Hz.

Note 5: Part No 9910C9201 is similar to 9910C9200 with Power: 115V/50Hz.

مشخصات فنی کولر چهار مبدله

9910C9400 ⁶

Compressor gas cooler type CCA-xxx4. In panel version. depth of housing: 400mm. Prepared for four Jet-stream heat exchanger with 250NI/h. electronicl controlled at +5°C, high/low temperature alarm range and sample outlet dew point adjustable 3temperature adjusted at +5°C, with 1 changeover contact, Thermometer with digital display: -10/+50°C. Power: 230V/50Hz.

Note 6: Part No 9910C9401 is similar to 9910C9400 with Power: 115V/50Hz.

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Heat Exchanger Part No Technical Information

9910C1250 , #1 stream

Jet stream heat exchanger for cooler type CCA-xxx1, material SS316, Connections: sample gas 1/4" tube condensate 3/8"G. 250NI/h Manufacturer: Arka Behbood Farayand , Made in IRAN

Stagnant space approx. 100 ml

Sample gas pressure abs. max. 6 barg

9910C2150 , #2 streams

Jet stream heat exchanger for cooler type CCA-xxx2, material SS316, Connections: sample gas 1/4" tube condensate 3/8"G. 150NI/h Manufacturer: Arka Behbood Farayand , Made in IRAN

Stagnant space approx. 40 ml

Sample gas pressure abs. max. 6 barg

9910C4250 , #4 streams

Jet stream heat exchanger for cooler type CCA-xxx4, material SS316, Connections: sample gas 1/4" tube condensate 3/8"G. 250NI/h Manufacturer: Arka Behbood Farayand , Made in IRAN

Stagnant space approx. 70 ml

Sample gas pressure abs. max. 6 barg



5	Other Heat Exchanger Part No Technical Information	1593K0140 , #1 stream , GL Jet-stream heat exchanger for cooler type CCA-xxx1, Material: Duran glass. Connections: sample gas GL18-6mm, condensate GL25-12mm. 250NI/h. Manufacturer: M&C , Made in Germany Stagnant space approx. 100 ml Sample gas pressure abs. max. 2 bar	1597K0100 , #2 stream , GL Jet stream heat exchanger, type CCA-xxx2, material Duran glass, connections: sample gas GL18-6/6mm, condensate GL25-12mm. 150NI/h Manufacturer: M&C , Made in Germany Stagnant space approx. 40 ml Sample gas pressure abs. max. 2 bar	1502K9100 , #4 streams , GL Jet-stream heat exchanger type CCA-xxx4. Material: Duran-glass. Connections: Sample gas: 2x GL18-6mm, Condensate: 1x GL25-12mm 250NI/h Manufacturer: M&C , Made in Germany Stagnant space approx. 70 ml Sample gas pressure abs. max. 2 bar
		1593K0170 , #1 stream , PV Jet-stream heat exchanger for cooler type CCA-xxx1. Material: PVDF. Connections: sample gas G1/4"i, condensate G3/8"i.. 250NI/h Manufacturer: M&C , Made in Germany Stagnant space approx. 100 ml Sample gas pressure abs. max. 3 bar	1597K0110 , #2 stream , PV Jet stream heat exchanger, type CCA-xxx2, material PVDF, connections: sample gas 6mm condensate G3/8"i. 250NI/h : M&C , Made in Germany Stagnant space approx. 40 ml Sample gas pressure abs. max. 3 bar	1502K9300 , #4 streams , PV Jet-stream heat exchanger type CCA-xxx4. Material: PVDF. Connections: sample gas: 2x G1/4"i, condensate: 1x G3/8"i. 250NI/h Manufacturer: M&C , Made in Germany Stagnant space approx. 70 ml Sample gas pressure abs. max. 3 bar

6	CCA additional Technical Data	Sample outlet dew point Dew point stability Sample inlet temperature Ambient temperature Storage temperature Total cooling capacity Ready for working Power consumption Main power connection Electrical connections Status alarm System of protection Case color Method of mounting Dimensions Weight	Range of adjustment: +2 °C..... +7 °C, factory setting: +5 °C at const. conditions: < ±0,1°C max. +180°C 0 to +50°C -20 to +70°C Min 40W at 10°C ... 50°C ambient temperature < 15 min (stability time at constant process condition > 120 mins) max. 200VA (start up current at 230V=2,5A; at 120V=4,5A) 240V/120V, 50Hz/60Hz (a):-15%/+10% terminals: 6-12mm, cable gland: 2xPG11 1 free configurable status alarm with 2 potential free change-over contacts, alarm point: < 2°C and > 8°C contact rating 250VAC, 2A; 500 VA; 50W IP20 white wall mounting 310 x 270 x 450 mm (WxHxD) 12kg/17,5kg (version: 230V/115V)

7 Condensate Removal Options



**Peristaltic pump SR25.2
1501P1300 (Optional)**

Peristaltic pump SR25.2, for panel mounting Wall thickness max.1,5mm capacity of 0,30 l/hr, pressure range 200mbar up to 2,2bar abs. Material: Novopren, PVDF, connections for tube DN 4/6mm, power: 115/230V, 50/60Hz.

Other Technical Specification and other Enclosure Dimensions acceptable on order.



**Automatic condensate trap
1509K3000 (optional)**

Automatic condensate trap with float type AD-SS. Condensate-IN: 1/2"NPTi, Condensate-OUT: 1/2"NPTi. Material: stainl. steel.

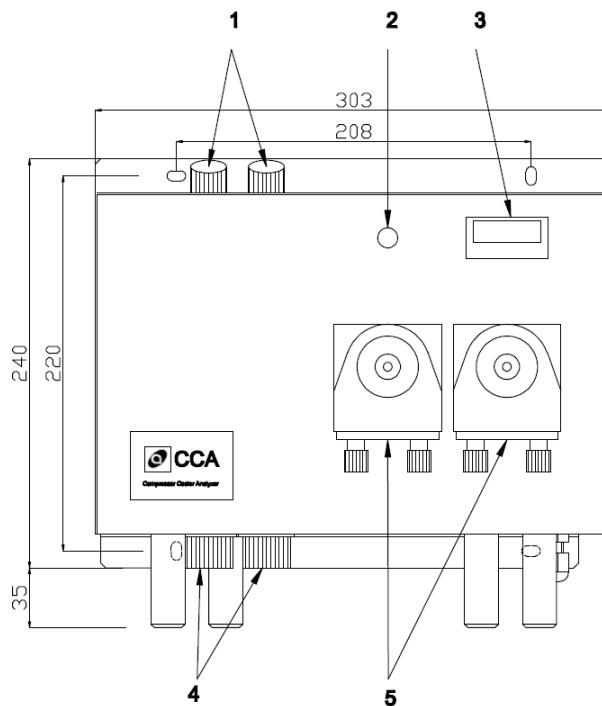
توجه : مشخصات فنی دستگاه با توجه به نیاز مشتری با هر ابعاد بدنه و توان برودتی و هر تعداد مبدل در زمان سفارش مورد قبول است.



Dimensions

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Front View



- (1) sample gas inlet / outlet
- (2) status LED (compressor works OK)
- (3) PID controller digital display
- (4) Condensate outlet
- (5) SR25.2 peristaltic pumps (if ordered)

- (۱) ورودی و خروجی گاز sample
- (۲) LED نشانگر کارکرد کمپرسور
- (۳) PID کنترلر و نمایشگر دما
- (۴) خروجی آب از میلد
- (۵) پمپ های SR25.2 جهت مکش آب از خروجی میلد

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Side View

