*acura*Line®

SPECIFICATIONS

*acura*Air
COMPRESSED AIR FILTER CDF 290

Modern manufacturing industry requires the cleanest, most reliable compressed air supply available. Compromising your compressed air supply can result in a reduction in product quality, affect site safety and can even result in a production line coming to a halt. A modest investment in the ***acura*Air** range of compressed air filters will pay for itself many times over.
The filter cartridge is retained using a positive seal O-ring. This design feature allows the quick and easy replacement of the filter element, eliminating the need for a tie rod. The element grade is clearly identified by the use of different coloured outer foam sleeves.

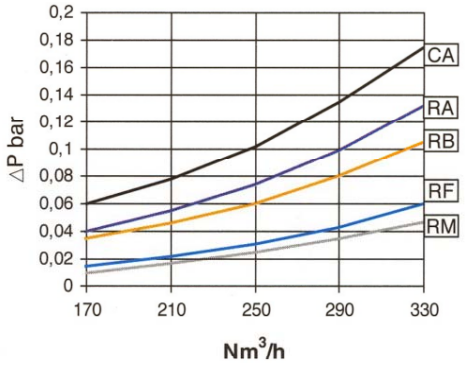
SPECIFICATIONS

Connection	:	G 1"
Housing Material	:	Aluminium
Max. Working Pressure	:	16 bar
Max. Working Temperature	:	-10/+60°C
Volume	:	1,6 l
Weight	:	1,9 kg
Max. / Recommended Flowrate	:	330 / 290 Nm³/h (at 7 bar)

CHOICE OF FILTERELEMENTS

Filterelement: ARS-290 ❒ ❒ =Filtration Grade

Filterelement (Filtration Grade)	RM	RF	RB	RA	CA
Particulate Removal (µm)	10	1	1	0,01	--
Residual Oil (ppm)	15	--	0,1	0,01	0,003
Air Purity ISO 8573/1	4.-.5	2.-.4	2.-.2	1.-.1	1.-.1



ORDERING INFORMATIONS

Filterhousing CDF 290 - ❒
❒ OO = Manual valve XAD-300
❒ OD = Automatic inner condensate drain XAD-251
❒ MD = OD - Version with differential gauge XAM-100

OPTIONS

Mounting bracket	:XAS-2
Housing connection kit	:XAK-2
O-Ring seal kit	:XAG-2

Differetial Gauge XAM-100

The differential gauge XAM-100 measures the pressure difference between the inlet and outlet of the filter assembly. With the scale being centrally set at „0“, the gauge can be mounted through a rotation of 180°. Element replacement is advised when the pointer enters into the red coloured field.

Autom. Float Drain XAD-251

The automatic float condensate drain XAD-251 can run in 3 different ways. Automatic - Semi-automatic and Manual.

Easy Installation

Mounting Kits are available which enables the installation of several filters in series. The design of our compact assembly XAK allows the use of a multi stage system to be used where minimal space is available.

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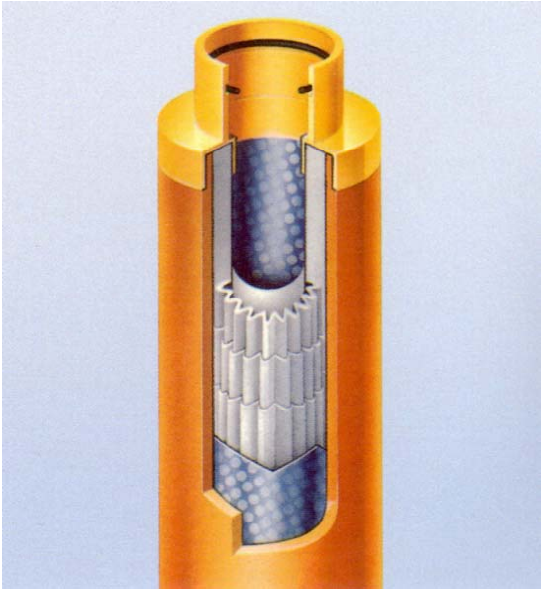
*acura*Air
FILTERELEMENTS ARS



The acuraAir ARS range of filter elements in our compressed air series are constructed using multiple filter layers, each of which is used for a specific function. The contaminated air (travelling throug the cartridge from inside to out) first passes a pre-filtration layer of resin impregnated cellulose fibres, where particles greater then 5 µm retained.
The use of resin for impregnation guarantees the consistent high strength of the filter material, even in the presence of water.
The air then passes through the second filtration layer, which consists of borosilicate microfibres. This allows the capture of particles with sizes down to 0.01 micron and the formation of condensate droplets, which are conveyed to the outer coalescing layers of the cartridge.
The outer barrier collects the separated droplets of water and oil, allowing them to run down to the bottom of the cartridge and into the bowl of the housing assembly. Although the compressed air elements allow liquids to pass through, the retained solids eventually result in them becoming blocked.

Filtration Grade RM / RF		**Applications:**
Particles Removal	: 10 µm / 1 µm	- Removal of condensate and solid particles, protecting air receivers and refrigerant driers.
Residual Oil	: < 15 ppm / < 8 ppm	- Pre filter for the RB & RA grades.
Replacement	: at 0,6 bar	- After filter collecting dust and debris generated by Desiccant driers.

Filtration Grade RB		**Applications:**
Particles Removal	: 1 µm	- Industrial filtration for general purpose air and pre filter for refrigeration driers.
Residual Oil	: < 0,1 ppm	- Pre filter for the RA & CA grades.
Air Quality to ISO 8573.1	: Class 2	- Vacuum pump inlet protection filter.
Clean pressure drop	: 60 mbar	- Removal of particles down to 1 µm, coalesced water and oil (liquid).
Replacement	: at 0,6 bar	- Max. remaining oil content of 0.1 ppm at 21°C.

Filtration Grade RA		**Applications:**
Particles Removal	: 0,01 µm	- Adsorption driers.
Residual Oil	: < 0,01 ppm	- Sophisticated instrumentation.
Air Quality to ISO 8573.1	:Class 1	- Spray paint plants. Electronisc, food & textiles industries.
Clean pressure drop	: 80 mbar	- Removal of particles down to 0.01 µm including oil & water aerosols, which provides a max. remaining oil content of < 0,01 mg/m³ at 21°C.
Replacement	: at 0,6 bar	

Filtration Grade CA		**Applications:** **Always to be preceded by the RA grade.**
Residual Oil	: < 0,003 ppm	- Compressed air for food & beverage
Air Quality to ISO 8573.1	: Class 1	- Compressed air for pharmaceutical
Clean pressure drop	: 140 mbar	- Compressed air for process air, textiles, electronics
Replacement	: after 1000 h	- Removal of oil vapour and hydrocarbons, which provides a max. remaining oil content of < 0,003 mg/m³ at 21°C.

Correction factor for specific line pressures. Flow rate values stated for this filterunit are for 7 bar *

Pressure on line (bar)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction Factor	0,38	0,53	0,65	0,75	0,80	0,90	1	1,10	1,15	1,20	1,25	1,30	1,35	1,40	1,45	1,50

*) For specific line pressure, multiply the flow rates by the corresponding correction factor.