MADE IN ITALY

Fini COMPRESSORS

AIR TREATMENT RANGE 17.3







Drying - Filtration - Energy saving

unoflow®
YOUR PREFERRED FLOW PARTNER

Invest on air quality

The compression process increases the concentration of solid particles suspended in the atmosphere, generated by natural phenomena but also by polluting agents or industrial processes.
Water, oil, impurities and odours cause alterations in the quality of the air produced, corrosion of the pipes and damage to the pneumatic equipment, thus negatively affecting performance.

Inside 100 m^3 of compressed air, there are: 2.2 litres of water (75% in liquid form and 25% in gaseous form)*
2 grams of oil, 8 million solid particles and odours, determined by the compression process but mainly by the environment in which the compressor sucks air.
Some production processes do not tolerate the presence of these substances.

The quality of compressed air is therefore fundamental for the reliability of the machinery and quality of the final product.
The ISO 8573-1:2001 standard (see tables) classifies the maximum values accepted for each application, in terms of oil, water and particles content, defining the quality requirements of the air of the same system, based on the process needs.

FINI *boasts more than 60 years of experience and it is one of the most important global organizations in the professional and industrial compressed air sector. Synonymous with quality and professionalism, the Fini brand is also specialized in the production and distribution of a wide range of products for t he treatment of compressed air.*

A complete range
From the compression room to the utilization point of the compressed air, we propose items for different user requirements, from the simple workshop to large industries.

Innovation and technology
Our products are designed by highly skilled technicians using the latest technologies available on the market. Innovation, quality in the business processes and proposed solutions, as well as flexibility and dynamism being the key features that set us apart.

QUALITY CLASS	DUST		WATER		OIL
	Micron	mg/m³	Dew point under pressure	g/m³	mg/m³
1	0,1	0,1	- 70 °C	3	0,01
2	1	1	- 40 °C	117	0,1
3	5	5	- 20 °C	880	1
4	15	8	+ 3 °C	5.953	5
5	40	10	+ 7 °C	7.732	25
6	–	–	+ 10 °C	9.356	–

APPLICATION FIELDS	DIN ISO 8573-1			QM: *Prefilter* RD: *Refrigerated air dryer dryer (dew point +3 °C)* PM: *Oil separator filter* DD: *Desiccant dryer (-20°C -40°C)* HM:*Fine oil separator filter* CM: *Active carbon filter*					
	DUST	WATER	OIL						
General air for industry, blowing air	–	–	–						
Sand-blasting, simple painting	3	–	–	QM					
High-quality sand-blasting, simple spray painting	2	4	2	QM	RD	PM			
Pneumatic tools, air for governors, for system testers and governors	1	4	1	QM	RD	PM		HM	
Dentist's surgery, photo labs	1	1-2-3	1	QM		PM	DD	HM	CM
Air for control equipments, air for tools. Pneumatic end, high quality spray painting, air-to surface finishing	1	1-2-3	1	QM		PM	DD	HM	CM
Medical instruments, breathable air, food industries	1	1-2-3	1	QM		PM	DD	HM	CM

** These data refer to air at 25 °C, with relative humidity at 70%, when compressed at 7 bars.*

Refrigerated air dryers


RD 30


RD 25.A


RD 810.1

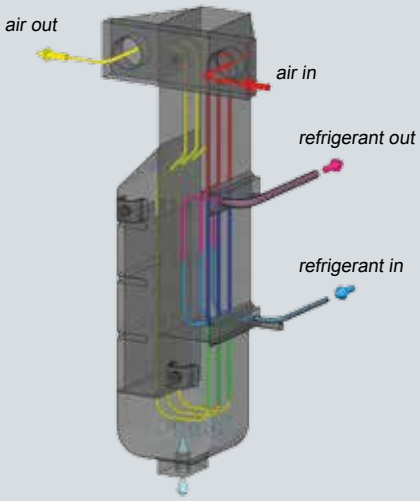
Efficient, functional, ecologic.

The refrigerated air dryer dryers ensure the production of quality, clean and dry air, essential to preserve the systems and the quality of the finished product.
They achieve excellent performance even in instances of unfavorable environmental conditions, and high inlet temperatures.
The highly efficient and ultra compact heat exchanger is able to operate effectively in ambient temperatures up to 45 °C, ensuring a reduced compressed air pressure drop.

The electronic controller indicate the dryer operating condition (Dew Point), controls the condensate drain valve via a cyclic timer and the condenser fan via a temperature probe.
The aluminium module has a vertical flow layout ensuring the wet compressed air flows down to the automatic drain.

All materials are in compliance with our environmental policy: only environmentally friendly refrigerants are used.
Components conform with 2002/95/CE "RoHS" (restriction of hazardous substances) and 2002/96/CE "WEEE" (waste electrical and electronic equipment) European Directives.
Models from RD 4 to RD 32 are equipped with ecologic refrigerating fluid R134a, all others use R407c.

HEAT EXCHANGER



The highly efficient and ultra compact heat exchanger is able to operate effectively in ambient temperatures up to 45°C, ensuring a reduced compressed air pressure drop.
This compact aluminium module contains the various stages of the compressed air treatment.

Air-air exchanger: a pre-cooling of the intake air takes place in this section.
This allows to reduce the energy consumption of the refrigeration circuit and reduces the possibility of condensation on the outer surface of the pipe from the dryer.
Air-gas exchanger: the pre-cooled air in the air/air heat exchanger comes in t he evaporator and cools to the dew point.

Demister: the air cooled in the evaporator passes through a demister separator that allows the drainage of the condensate in a large collection chamber.
The geometry of the module and the demister allows to keep the load losses low.

RD COMPACT refrigerated air dryers

Compact size, streamlined layout and innovative solutions are the main assets of RD COMPACT 4-30 models, that rely on a high-efficiency exchanger evolution based on the horizontal layout of the air connections that simplifies coupling and streamlines the inner flow.

RD 30

	CODE	TYPE	Volt/Ph/Hz	kW	Amp. max.	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	L x D x H (cm)	kg	lbs
GAS R134a		**RD 4**	230/1/50-60	0,16	1,4	400	24	14	16	232	3/8"	22 x 56 x 46	21	46
		RD 9	230/1/50-60	0,19	1,5	900	54	32	16	232	1/2"	22 x 56 x 46	24	53
		RD 11	230/1/50-60	0,21	1,7	1.100	66	39	16	232	1/2"	22 x 56 x 46	25	55
		RD 17	230/1/50-60	0,28	2,1	1.700	102	60	16	232	1"	22 x 56 x 46	27	60
		RD 24	230/1/50-60	0,33	3,1	2.400	144	85	16	232	1"	22 x 56 x 46	29	64
		RD 30	230/1/50	0,45	3,7	3.000	180	106	14	203	1"	22 x 56 x 58	32	71

Correction factors										
Pressure (barg)	4	5	6	7	8	10	12	14	15	16
Factor F1	0,77	0,86	0,93	**1,00**	1,05	1,14	1,21	1,27	1,30	1,33

Ambient temperature (°C)	<=25	30	35	40	45
Factor F2	**1,00**	0,95	0,88	0,79	0,68

Air inlet temperature (°C)	<=30	35	40	45	50	55
Factor F3	1,11	**1,00**	0,81	0,67	0,55	0,45

Dew Point (°C)	3	5	7	10
Factor F4	0,73	0,80	0,87	**1,00**

Reference data in accordance with DIN-ISO 7183	
Pressure dew-point t_{pd}*:*	**10 °C**
Air flow related to:	**20 °C, 1 bar**
Compressed air inlet temperature t_1*:*	**35 °C**
Operating pressure p_1*:*	**7 bar**
Cooling air temperature t_c*:*	**25 °C**
Operating conditions	
Max. compressed air inlet temperature t_1*:*	**55 °C**
Max. operating pressure p_1*:*	**14 bar**
Range of ambient temperature t_a*:*	**1÷45 °C**

RD.A high performance refrigerated air dryers

RD 25.A

The unique design of these dryers, with the panels can be easily removed, has been designed and built to facilitate inspection and maintenance.
The new high-performance heat exchanger ensures a perfect match to the standard air flow of an air compressor.
The cleaning of the drain valve does not require any tools thanks to the quick bayonet.

	CODE	TYPE	Volt/Ph/Hz	kW	Amp. max.	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	L x D x H (cm)	kg	lbs
GAS R134a		**RD 6.A**	230/1/50-60	0,16	1,4	600	36	21	16	232	1/2"	36 x 43 x 77	28	62
		RD 9.A	230/1/50-60	0,19	1,5	950	57	34	16	232	1/2"	36 x 43 x 77	29	64
		RD 12.A	230/1/50-60	0,21	1,7	1.200	72	42	16	232	1/2"	36 x 43 x 77	31	68
		RD 18.A	230/1/50-60	0,29	2,4	1.800	108	64	16	232	1/2"	36 x 43 x 77	34	75
		RD 25.A	230/1/50-60	0,39	3,1	2.500	150	88	14	203	1"	36 x 43 x 77	35	77
		RD 32.A	230/1/50	0,48	3,6	3.200	192	113	14	203	1"1/4	36 x 43 x 77	40	88
GAS R407c		**RD 43.A**	230/1/50	0,71	4,5	4.300	258	152	14	203	1"1/4	53,5 x 58 x 91	43	95
		RD 52.A	230/1/50	0,72	5,2	5.200	312	184	14	203	1"1/4	53,5 x 58 x 91	44	97
		RD 63.A	230/1/50	0,82	5,2	6.300	378	222	14	203	1"1/2	53,5 x 58 x 91	54	119
		RD 80.A	230/1/50	0,71	8,9	8.000	480	283	14	203	1"1/2	53,5 x 58 x 91	56	123
		RD 105.A	230/1/50	0,92	8,9	10.500	630	371	14	203	2"	55,5 x 62,5 x 97,5	94	207
		RD 135.A	230/1/50	1,40	11,2	13.500	810	477	14	203	2"	55,5 x 62,5 x 97,5	96	211
		RD 168.A	230/1/50	1,50	11,2	16.800	1.008	594	14	203	2"	66,5 x 72,5 x 110,5	144	317

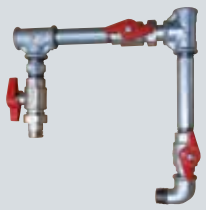
Correction factors

Pressure (barg)	4	5	6	7	8	10	12	14
Factor F1	0,77	0,86	0,93	**1,00**	1,05	1,14	1,21	1,27

Ambient temperature (°C)	<=25	30	35	40	45
Factor F2	**1,00**	0,95	0,88	0,79	0,68

Air inlet temperature (°C)	<=30	35	40	45	50	55
Factor F3	1,11	**1,00**	0,81	0,67	0,55	0,45

Dew Point (°C)	3	5	7	10
Factor F4	**1,00**	1,11	1,19	1,38



** By-pass group are provided not assembled.*

BY PASS*

CODE	TYPE	G
9058162	**RD 4-11, RD 6.A-18.A**	1/2"
9058156	**RD 17-30, RD 25.A**	1"
9058319	**RD 32.A-52.A**	1"1/4
9058320	**RD 63.A-80.A**	1"1/2
9058321	**RD 105.A-130.A**	2"-230 mm
9058322	**RD 168.A**	2"-360 mm
9058323	**RD 190.1-240.1**	2"1/2
9058324	**RD 350.1-410.1**	DN80

RD.1 industrial refrigerated air dryers

RD 810.1

Designed and built taking into consideration the high reduction of energy consumption.
The main advantages are:
- *limited pressure drop*
- *low power consumption*
- *high efficiency refrigeration compressor*
- *new gas by-pass valve*
- *dewpoint extremely constant.*
- *functionality even under extreme working conditions (ambient temperature 50 °C)*

GAS R407c

CODE	TYPE	Volt/Ph/Hz	kW	Amp. max.	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	L x D x H (cm)	kg	lbs
	RD 190.1	400/3/50	2,1	5,7	19.000	1.110	653	14	203	2"1/2	64,5 x 92 x 110	189	417
	RD 240.1	400/3/50	2,3	6,7	24.000	1.500	883	14	203	2"1/2	64,5 x 92 x 110	212	467
	RD 350.1	400/3/50	3,60	10,2	35.000	2.100	1.236	14	203	DN80	79 x 100 x 147	276	607
	RD 410.1	400/3/50	3,90	11,2	41.000	2.460	1.449	14	203	DN80	79 x 100 x 147	311	684
	RD 480.1	400/3/50	5,20	14,5	48.000	2.880	1.696	14	203	DN100	114 x 121 x 175	463	1.019
	RD 620.1	400/3/50	5,90	15,9	62.000	3.720	2.191	14	203	DN100	114 x 121 x 175	538	1.184
	RD 810.1	400/3/50	7,10	22,4	81.000	4.860	2.860	14	203	DN100	114 x 121 x 175	612	1.346
	RD 900.1	400/3/50	8,40	30,1	90.000	5.400	3.178	14	203	DN150	130 x 175 x 181	830	1.826
	RD 1100.1	400/3/50	10,80	37,1	110.000	6.600	3.885	14	203	DN150	130 x 175 x 181	940	2.068
	RD 1200.1	400/3/50	11,30	38,8	120.000	7.200	4.238	14	203	DN200	140 x 220 x 187	1.055	2.321
	RD 1500.1	400/3/50	16,80	47,8	150.000	9.000	5.297	14	203	DN200	140 x 220 x 187	1.200	2.640

Correction factors								
Pressure (barg)	4	5	6	7	8	10	12	14
Factor F1	0,77	0,86	0,93	**1,00**	1,05	1,14	1,21	1,27

Ambient temperature (°C)	<=25	30	35	40	45
Factor F2	**1,00**	0,95	0,88	0,79	0,68

Air inlet temperature (°C)	<=30	35	40	45	50	55
Factor F3	1,11	**1,00**	0,81	0,67	0,55	0,45

Dew Point (°C)	3	5	7	10
Factor F4	**1,00**	1,11	1,19	1,38

Reference data in accordance with DIN-ISO 7183	
Pressure dew-point t_{pd}:	**3 °C**
Air flow related to:	**20 °C, 1 bar**
Compressed air inlet temperature t_1:	**35 °C**
Operating pressure p_1:	**7 bar**
Cooling air temperature t_c:	**25 °C**
Operating conditions	
Max. compressed air inlet temperature t_1:	**55 °C**
Max. operating pressure p_1:	**14 bar**
Range of ambient temperature t_a:	**1÷45 °C**

RD HT refrigerated air dryers for high temperatures

RD HT 18

The RD HT series of dryers is specifically designed for an efficient treatment of the compressed air at high inlet temperatures.
They can withstand temperatures up to 90 °C, making them ideal for use in tropical zones and for piston compressors.

This range, the only one of its kind on the market, has a built-in high efficiency pre-cooler, that ensures a reduction of the input temperature.
The excellent performance and compactness of the machine reduce the pressure drop and allows quick and easy installation.

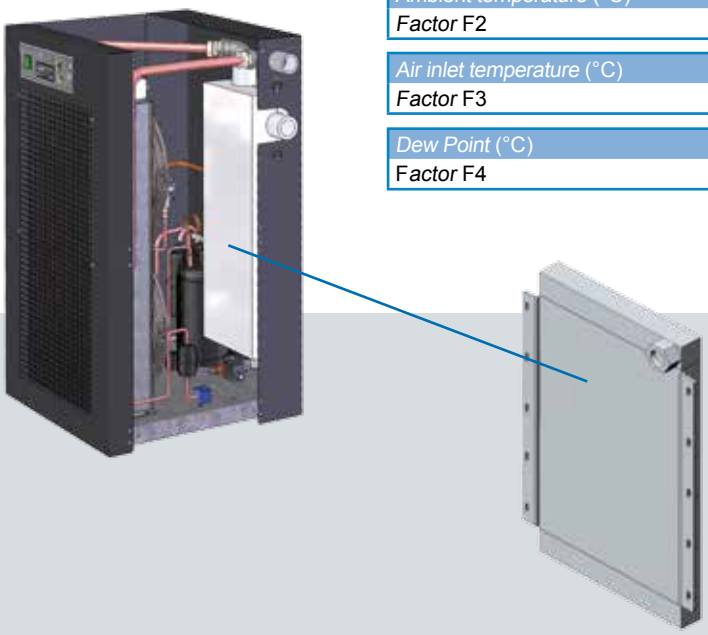
CODE	TYPE	Volt/Ph/Hz	kW	Amp. max.	l/min.	m^3/h	c.f.m.	bar	p.s.i.	G	L x D x H (cm)	kg	lbs
	RD HT 8	230/1/50	0,21	1,7	800	48	28	16	232	1/2"	42 x 41 x 65	33	73
	RD HT 12	230/1/50	0,23	2	1.200	72	42	16	232	1/2"	42 x 41 x 65	34	75
	RD HT 18	230/1/50	0,34	2,6	1.800	108	64	16	232	1/2"	42 x 41 x 65	37	81
	RD HT 25	230/1/50	0,36	3	2.500	150	88	14	203	1"	44 x 44 x 90	45	99
	RD HT 32	230/1/50	0,63	3,9	3.200	192	113	14	203	1"1/4	44 x 44 x 90	49	108
	RD HT 45	230/1/50	0,84	5,2	4.500	270	159	14	203	1"1/4	47 x 51 x 90	61	134

Correction factors								
Pressure (barg)	4	5	6	7	8	10	12	14
Factor F1	0,77	0,86	0,93	**1,00**	1,05	1,14	1,21	1,27

Ambient temperature (°C)	<=30	32	35	40	45
Factor F2	1,05	**1,00**	0,93	0,84	0,74

Air inlet temperature (°C)	<=70	80	90
Factor F3	1,11	**1,00**	0,89

Dew Point (°C)	5	7	10
Factor F4	0,75	0,92	**1,00**



The built-in high efficiency pre-cooler ensures a reduction of the input temperature.

DD desiccant dryers

Absolutely without condensation

A wide range from 85 to 7.000 lt/min. with the dew point of -40°C to -70°C, are ideal for those production processes where compressed air must be absolutely without condensation (painting, plastic mould, medical, chemical, food sectors, etc.).

The high quality of the activated alumina achieve consistent dew point. The DD desiccant dryers are less than the half the weight and size of a traditional twin tower design.

DD desiccant air dryers can be mounted to the wall by the help of the mounting brackets to win more space and also can be applied to the ground very easily.

The mini PLC is very user-friendly and shows the working action simultanously. I t is possible to get an alarm signal or remote control thanks to an easy access plug below the dryer.

DEW POINT -40 °C

CODE	TYPE	Volt/Ph/Hz	l/min.	m^3/h	c.f.m.	bar	p.s.i.	G	L x D x H (cm)	kg	lbs	By-Pass CODE
	DD 08	115-240/1/50-60	83	5	3	16	232	1/2"	32 x 31 x 56	15	33	**9058326**
	DD 17	115-240/1/50-60	167	10	5	16	232	1/2"	32 x 31 x 64	17	37	**9058327**
	DD 30	115-240/1/50-60	333	20	10	16	232	1/2"	32 x 31 x 91	23	51	**9058328**
	DD 42	115-240/1/50-60	417	25	15	16	232	1/2"	32 x 37 x 80	25	55	**9058329**
	DD 58	115-240/1/50-60	583	35	20	16	232	1/2"	32 x 37 x 110	35	77	**9058330**
	DD 70	115-240/1/50-60	750	45	25	16	232	1/2"	32 x 37 x 125	41	90	**9058331**
	DD 83	115-240/1/50-60	833	50	30	16	232	1/2"	32 x 37 x 150	46	101	**9058332**
	DD 116	115-240/1/50-60	1.167	70	40	16	232	1"1/2	43 x 43 x 125	71	156	**9058333**
	DD 142	115-240/1/50-60	1.417	85	50	16	232	1"1/2	43 x 43 x 140	78	172	**9058334**
	DD 170	115-240/1/50-60	1.667	100	59	16	232	1"1/2	43 x 43 x 175	92	202	**9058335**
	DD 216	115-240/1/50-60	2.167	130	75	16	232	1"1/2	43 x 62 x 130	120	264,5	**9058336**
	DD 285	115-240/1/50-60	2.833	170	100	16	232	1"1/2	43 x 62 x 145	133	293,2	**9058337**
	DD 340	115-240/1/50-60	3.333	200	120	16	232	1"1/2	43 x 62 x 175	795	1753	**9058338**
	DD 500	115-240/1/50-60	5.000	300	180	16	232	1"1/2	71 x 43 x 150	185	407	**9058339**
	DD 680	115-240/1/50-60	6.667	400	240	16	232	1"1/2	85 x 43 x 150	235	517	**9058340**
On demand	**DD 955**	115-240/1/50-60	9.545	575	337	16	230	1"1/2	65 x 90 x 199	450	990	–
	DD 1130	115-240/1/50-60	11.288	680	399	16	230	2"	75 x 100 x 216	535	1177	–
	DD 1410	115-240/1/50-60	14.110	850	499	16	230	2"	80 x 105 x 230	700	1540	–
	DD 1660	115-240/1/50-60	16.600	1000	587	16	230	2"	86 x 112 x 239	785	1727	–
	DD 2075	115-240/1/50-60	20.750	1250	733	16	230	DN80	101 x 130 x 231	980	2156	–
	DD 2490	115-240/1/50-60	24.900	1500	880	16	230	DN80	101 x 130 x254	1210	2662	–
	DD 2990	115-240/1/50-60	29.880	1800	1.056	16	230	DN80	101 x 139 x 241	1250	2750	–
	DD 3650	115-240/1/50-60	36.520	2200	1.290	16	230	DN80	111 x 149 x 248	1525	3355	–
	DD 4480	115-240/1/50-60	44.820	2700	1.584	16	230	DN80	121 x 195 x 224	1870	4114	–
	DD 5310	115-240/1/50-60	53.120	3200	1.877	16	230	DN100	121 x 192 x 246	2215	4873	–
	DD 5975	115-240/1/50-60	59.760	3600	2.112	16	230	DN100	121 x 183 x 260	2300	5060	–
	DD 7300	115-240/1/50-60	73.040	4400	2.581	16	230	DN100	121 x 192 x 248	2800	6160	–
	DD 8300	115-240/1/50-60	83.000	5000	2.933	16	230	DN125	135 x 192 x 296	3180	6996	–
	DD 10460	115-240/1/50-60	104.580	6300	3.695	16	230	DN150	165 x 250 x 276	4000	8800	–
	DD 12000	115-240/1/50-60	119.520	7200	4.223	16	230	DN150	165 x 250 x 292	4570	10054	–
	DD 14600	115-240/1/50-60	146.080	8800	5.162	16	230	DN150	165 x 250 x 320	5585	12287	–
	DD 18000	115-240/1/50-60	179.280	10800	6.335	16	230	DN200	172 x 250 x 372	6855	15081	–

Models with Dew Point -70 °C available on demand

Air filters

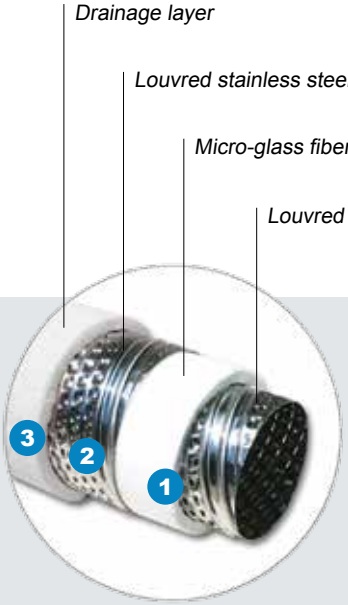
The proper choice of the filters avoids problems to the systems caused by the presence of oil or impurities in the air. Our filters ensure clean compressed air, free of oil and impurities, for the many different applications, also the most demanding ones.

The air filters have 4 ranges of efficiencies, removing down to 0.01 micron at up to 235 psi (16 barg) - 1/4" to 3" NPT/G pipe sizes.

All filters are provided with:

- *Integrated differential pressure gauge (except for CM models)*
  These filters are equipped with differential pressure gauges for easy maintenance and energy efficiency.
- *Body protected from oxidation with anodising treatment*
  Zero-porosity aluminum and durable epoxy powder-coat finish, along with acorrosion resistant internal coating gives long service life.
- *Auto-drain built-in*
  A protected auto float drain (2 mm orifice) is standard for reliable removal of liquid contaminants.
- *Filter elements of large diameter for a better separation.*

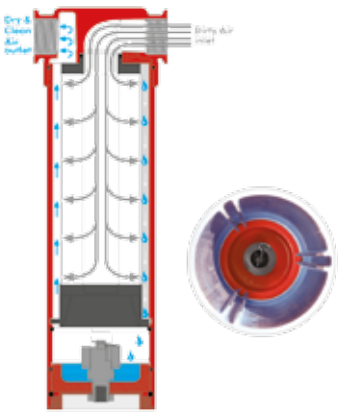
Anodising provides supreme corrosion resistance.



1- The "wrapped" separation material enables a lower pressure drop.

2- The filter element has a high resistance due to the use of steel tubes drilled diagonally. With this system the preseparation is optimal and the pressure drop is minimal.

3- PVC impregnated foam favours the drainage of condensate and oil.



QM *Prefilter (filter/element air flow direction is outside to inside)*

PM *Oil separator filter (filter/element air flow direction is inside to outside)*

HM *Fine oil separator filter (filter/element air flow direction is inside to outside)*

CM *Active carbon filter (filter/element air flow direction is outside to inside)*

Depending on the type of application, the range include pre-filters for the removal of dust, oil filters and activate carbon filters for the elimination of oil vapours and odours.

The entire range is characterized by a minimum pressure drop and high working lifespan.
The filters are available with floating automatic condensate drain and of course electronic level control drains can be installed.

Filter combinations are configured to meet specific application requirements.
Filters comply with PED and perform as per related ISO 8573 standards.

FILTER	*TYPE*	*FILTERING DEGREE*	*OIL RESIDUAL*	CLASS ISO 8573-1 *OIL*	MAX TEMP. °C	DELTA P bar
QM	*Prefilter*	5 micron	–	–	80	0,7
PM	*Oil separator filter*	1 micron	0,5 mg/m^3	2	80	0,7
HM	*Fine oil separator filter*	0,01 micron	0,01 mg/m^3	1	80	0,7
CM	*Active carbon filter*	–	0,003 mg/m^3	< 1	25	0,7

Correction factors								
Pressure (barg)	1	3	5	7	9	11	13	15
Factor	0,5	0,71	0,87	**1,00**	1,12	1,22	1,32	1,44

Air filters: technical data

QM - QMC

FILTERING DEGREE:
5 micron
Must always be installed before the dryer.
Its long life and excellent heat-resistance and abrasionproofing, make this filter a perfect start protection means for compressed air systems.

Suitable for metallurgical and mechanical workings.

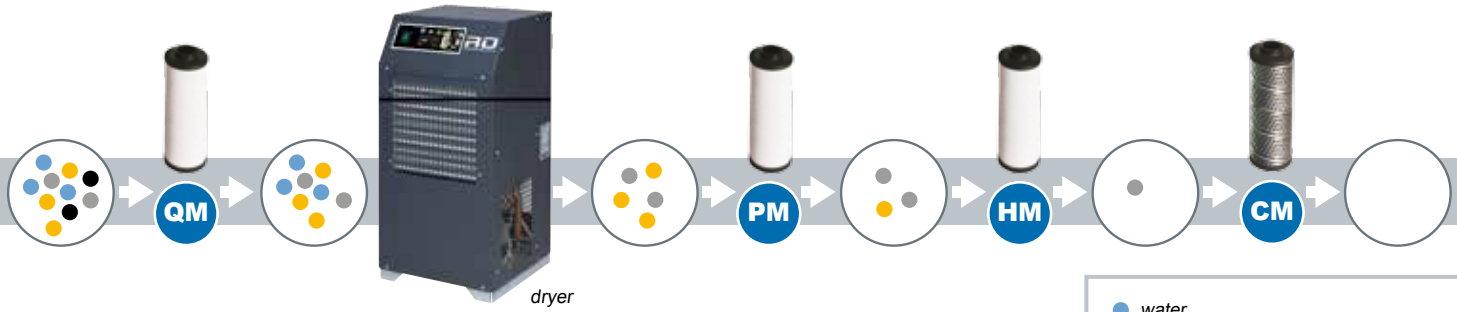
FILTERS									CARTRIDGES	
CODE	TYPE	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	Ø x H (cm)	CODE	TYPE
	QM 05	417	25	15	16	232	1/4"	10 x 22	**9058197**	**QMC 05**
	QM 10	833	50	30	16	232	3/8"	10 x 22	**9058198**	**QMC 10**
	QM 18	1667	100	59	16	232	1/2"	10 x 25	**9058199**	**QMC 18**
	QM 30	2.500	150	88	16	232	3/4"	12 x 29	**9058200**	**QMC 30**
	QM 34	3.333	200	118	16	232	3/4"	12 x 36	**9058201**	**QMC 34**
	QM 50	5.000	300	176	16	232	1" 1/4	12 x 45	**9058202**	**QMC 50**
	QM 72	8.333	500	294	16	232	1"1/4	12 x 48	**9058203**	**QMC 72**
	QM 95	10.000	600	353	16	232	1"1/2	16 x 62	**9058204**	**QMC 95**
	QM 125	14.183	851	500	16	232	2"	16 x 62	**9058205**	**QMC 125**
	QM 165	20.167	1.210	712	16	232	2"	16 x 69	**9058206**	**QMC 165**
	QM 220	25.333	1.520	895	16	232	2" 1/2	19 x 72	**9058208**	**QMC 220**
	QM 280	30.333	1.820	1.070	16	232	3"	19 x 86	**9058209**	**QMC 280**
	QM 350	37.000	2.220	1.305	16	232	3"	19 x 92	**9058210**	**QMC 350**
	QM 440	45.000	2.700	1.588	16	232	3"	19 x 106	**9058211**	**QMC 440**

PM - PMC

FILTERING DEGREE:
1 micron + residual oil 0.5 mg/m³
To install after the dryer or QM filters.
This filter, following cut-off and coalescence principles, forces the oily fluid particles
to collide and build larger drops.

Suitable for painting jobs.

FILTERS									CARTRIDGES	
CODE	TYPE	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	Ø x H (cm)	CODE	TYPE
	PM 05	417	25	15	16	232	1/4"	10 x 22	**9058227**	**PMC 05**
	PM 10	833	50	30	16	232	3/8"	10 x 22	**9058228**	**PMC 10**
	PM 18	1667	100	59	16	232	1/2"	10 x 25	**9058229**	**PMC 18**
	PM 30	2.500	150	88	16	232	3/4"	12 x 29	**9058230**	**PMC 30**
	PM 34	3.333	200	118	16	232	3/4"	12 x 36	**9058231**	**PMC 34**
	PM 50	5.000	300	176	16	232	1" 1/4	12 x 45	**9058232**	**PMC 50**
	PM 72	8.333	500	294	16	232	1"1/4	12 x 48	**9058233**	**PMC 72**
	PM 95	10.000	600	353	16	232	1"1/2	16 x 62	**9058234**	**PMC 95**
	PM 125	14.183	851	500	16	232	2"	16 x 62	**9058235**	**PMC 125**
	PM 165	20.167	1.210	712	16	232	2"	16 x 69	**9058236**	**PMC 165**
	PM 220	25.333	1.520	895	16	232	2" 1/2	19 x 72	**9058238**	**PMC 220**
	PM 280	30.333	1.820	1.070	16	232	3"	19 x 86	**9058239**	**PMC 280**
	PM 350	37.000	2.220	1.305	16	232	3"	19 x 92	**9058240**	**PMC 350**
	PM 440	45.000	2.700	1.588	16	232	3"	19 x 106	**9058241**	**PMC 440**



- water
- odours
- oil
- impurities

HM - HMC

FILTERING DEGREE:
0.01 micron + residual oil 0.01 mg/m³
To install after the QM and PM filters.
This filter differs from the PM filter only for its filtering degree. This filter provides a supply of air with 0.01 mg/m³ residual oil content.

Suitable for water-based painting jobs.

FILTRI | *FILTERS*									*CARTRIDGES*	
CODE	TYPE	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	Ø x H (cm)	CODE	TYPE
	HM 05	417	25	15	16	232	1/4"	10 x 22	**9058257**	**HMC 05**
	HM 10	833	50	30	16	232	3/8"	10 x 22	**9058258**	**HMC 10**
	HM 18	1667	100	59	16	232	1/2"	10 x 25	**9058259**	**HMC 18**
	HM 30	2.500	150	88	16	232	3/4"	12 x 29	**9058260**	**HMC 30**
	HM 34	3.333	200	118	16	232	3/4"	12 x 36	**9058261**	**HMC 34**
	HM 50	5.000	300	176	16	232	1" 1/4	12 x 45	**9058262**	**HMC 50**
	HM 72	8.333	500	294	16	232	1"1/4	12 x 48	**9058263**	**HMC 72**
	HM 95	10.000	600	353	16	232	1"1/2	16 x 62	**9058264**	**HMC 95**
	HM 125	14.183	851	500	16	232	2"	16 x 62	**9058265**	**HMC 125**
	HM 165	20.167	1.210	712	16	232	2"	16 x 69	**9058266**	**HMC 165**
	HM 220	25.333	1.520	895	16	232	2" 1/2	19 x 72	**9058268**	**HMC 220**
	HM 280	30.333	1.820	1.070	16	232	3"	19 x 86	**9058269**	**HMC 280**
	HM 350	37.000	2.220	1.305	16	232	3"	19 x 92	**9058270**	**HMC 350**
	HM 440	45.000	2.700	1.588	16	232	3"	19 x 106	**9058271**	**HMC 440**

CM - CMC

OIL RESIDUAL:
0.003 mg/m³ + oil vapors and odours
To install after the HM filter.
Where applications require oil free, vaporless and odourless air, the activated carbon filter eliminates odours and vapours using the absorption technique.

Recommended for packing applications in pharmaceutical and food industries.

FILTERS									*CARTRIDGES*	
CODE	TYPE	l/min.	m³/h	c.f.m.	bar	p.s.i.	G	Ø x H (cm)	CODE	TYPE
	CM 05	417	25	15	16	232	1/4"	10 x 22	**9058287**	**CMC 05**
	CM 10	833	50	30	16	232	3/8"	10 x 22	**9058288**	**CMC 10**
	CM 18	1667	100	59	16	232	1/2"	10 x 25	**9058289**	**CMC 18**
	CM 30	2.500	150	88	16	232	3/4"	12 x 29	**9058290**	**CMC 30**
	CM 34	3.333	200	118	16	232	3/4"	12 x 36	**9058291**	**CMC 34**
	CM 50	5.000	300	176	16	232	1" 1/4	12 x 45	**9058292**	**CMC 50**
	CM 72	8.333	500	294	16	232	1"1/4	12 x 48	**9058293**	**CMC 72**
	CM 95	10.000	600	353	16	232	1"1/2	16 x 62	**9058294**	**CMC 95**
	CM 125	14.183	851	500	16	232	2"	16 x 62	**9058295**	**CMC 125**
	CM 165	20.167	1.210	712	16	232	2"	16 x 69	**9058296**	**CMC 165**
	CM 220	25.333	1.520	895	16	232	2" 1/2	19 x 72	**9058298**	**CMC 220**
	CM 280	30.333	1.820	1.070	16	232	3"	19 x 86	**9058299**	**CMC 280**
	CM 350	37.000	2.220	1.305	16	232	3"	19 x 92	**9058300**	**CMC 350**
	CM 440	45.000	2.700	1.588	16	232	3"	19 x 106	**9058301**	**CMC 440**

Accessories for filters

Assembling kit for filters

CODE	TYPE
9058302	*Diferential gauge*
9058303	*Automatic drain for filters*
9058304	*Bracket for joint filters from 05 to 18*
9058305	*Bracket for joint filters from 30 to 34*
9058307	*Bracket for joint filters from 50 to 95*
9058308	*Bracket for joint filters from 125 to 165*
9058309	*Bracket for joint filters from 220 to 440*
9058310	*Wall bracket kit for filter from 05 to 18*
9058311	*Wall bracket kit for filter from 30 to 34*
9058312	*Wall bracket kit for filter from 50 to 95*
9058313	*Wall bracket kit for filter from 125 to 165*
9058314	*Wall bracket kit for filter from 220 to 440*

Zero Clearance
The major innovation for enduser will be the zero clearance: enables on easier bowl removal without using tool.

Condensate separators

CODE	TYPE	l/min.	m^3/h	c.f.m.	bar	p.s.i.	G	Ø x H (cm)
	WS 08	417	25	15	16	232	1/4"	10 x 26
	WS 20	1.667	100	59	16	232	1/2"	10 x 26
	WS 35	3.333	200	118	16	232	3/4"	12 x 28
	WS 50	5.000	300	176	16	232	1"	12 x 28
	WS 100	10.000	600	353	16	232	1" 1/2	12 x 30
	WS 210	20.000	1.200	706	16	232	2"	16 x 48
	WS 430	36.667	2.200	1.305	16	232	3"	20 x 55

Recommended operating temperature	**80 °C**
Minimum recommended operating temperature	**1,5 °C**
Typical pressure loss at rated flow	**50 mbar**
Maximum working pressure	**16 barg**

Cyclone condensate separator, complete with automatic float condensate drain. Uses a mechanical process to remove up to 60% of the water suspended in the air, significantly reducing the amount of condensate that flows into tank and dryer. To install before tank or dryer.

These separators have been designed for the removal of bulk liquid water and particulate from compressed air and gases. Unique centrifugal action removes contaminants with low-pressure drop for energy savings.

Vertical tanks

PAINTED TANKS

GALVANIZED TANKS

Vertical tanks complete with certified safety valve, pressure gauge, air outlet cock and condensate drain cock. Compliant with requirements set forth by law.

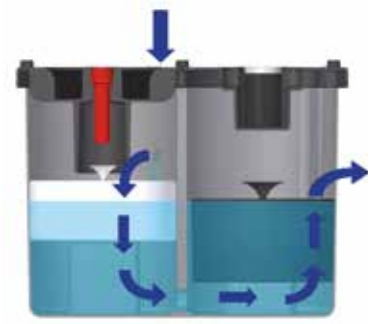
	CODE	LT	bar	p.s.i.	G	kg	lbs	Ø x H (cm)
VERNICIATI / *PAINTED*	**100 106 100**	**100**	11	160	3/4"	28	61	37 x 115
	100 106 150	**150**	11	160	1"	43	94	40 x 136
	100 106 200	**200**	11	160	1"	53	116	44 x 148
	100 106 270	**270**	11	160	1"	65	142	49 x 166
	100 106 500	**500**	11	160	2"	115	252	60 x 205
	100 106 720	**720**	11	160	2"	178	390	75 x 203
	100 106 900	**900**	11	160	2"	194	433	80 x 214
	100 106 220	**2000**	12	174	2"	388	850	110 x 249
	100 106 330	**3000**	12	174	2"	594	1301	120 x 299
	100 106 550	**5000**	12	174	3"	596	1305	120 x 299
	100 106 215	**200 AP (high pressure)**	15	217,5	1"	63	138	44 x 148
	100 106 315	**300 AP (high pressure)**	15	217,5	1"	88	193	50 x 172
	100 106 515	**500 AP (high pressure)**	16	232	2"	145	318	60 x 205
	100 106 116	**1000 AP (high pressure)**	16	232	2"	245	537	80 x 235
	100 106 215	**2000 AP (high pressure)**	16	232	2"	450	986	100 x 274
GALVANIZED	**100 106 515**	**500**	11	160	2"	119	261	60 x 205
	100 106 723	**720**	11	160	2"	181	396	75 x 203
	100 106 901	**900**	11	160	2"	196	429	80 x 214
	100 106 515	**500 AP (high pressure)**	16	232	2"	149	326	60 x 205
	100 106 116	**1000 AP (high pressure)**	16	232	2"	249	545	80 x 235

ECOWATER oil-water separators

EW 20

No pollution in the environment
According to European regulations, the residual oil content per litre of water released into drainage systems must not exceed 10 mg/l. The oil content in non treated condensate exceeds 250 mg/l.

The "EcoWater" water/oil separators are capable of removing mineral and synthetic oil resulting from the use of any compressors from the condensate discharged by compressed air systems giving a residual oil content well below current law limits. Separator inlet accommodates any type of condensate drain (float, timer-operated, capacitance drains, etc.) and outlet water can be piped directly into the drainage system.




EW 70

The EcoWater separators, with a two-towers multi-stage configuration, is constituted by a polypropylene fiber element and an active carbon element, specially selected and treated to maximize the adsorption properties, allowing the maximum filtration efficiency. The compact design and light weight of the elements, facilitate the inspection and routine maintenance.

CODE	TYPE	l/min.	m³/h	c.f.m.	G
	EW 20	2.000	120	70	1/2"
	EW 30	3.000	180	105	1/2"
	EW 70	7.000	420	245	1/2"
	EW 150	15.000	900	526	1/2"

SPARE PARTS

CODE	TYPE
EWC30	**Kit EWC 30**
EWC70	**Kit EWC 70**
EWC150	**Kit EWC 150**

CONDENSATE DRAIN

CODE	m³/min	bar	G
548300000	100	16	1/2"

Pro-Drain 100
Automatic capacitance condensate drain: no air loss, designed for tanks and large-size filters.

CODE	bar	G
9058317	16	1/2"

Sac 140
Magnetic automatic float condensate drain. Zero-loss.

CODE	m³/min	bar	G
3402	10	16	1/2"

Kaptiva MD 3402
Electronic condensate drain with minimum level, low air loss, ideal for tanks.

CODE	bar	G
548302000	16	1/8"

T1
Automatic timer-operated condensate drain T1, single timer, designed for filters and small compressors.

CODE	bar	G
548304000	16	1/4"

T2
Automatic timer-operated condensate drain, dual timer, complete with stainless steel safety strain and G 1/2" ball valve, ideal for tanks.

HRS Heat Recovery System

HRS is a system for the recovery of the heat generated by screw compressors, for the production of hot water.

Most of the energy used to produce compressed air is actually converted into heat: up to 90% of this energy is reusable!

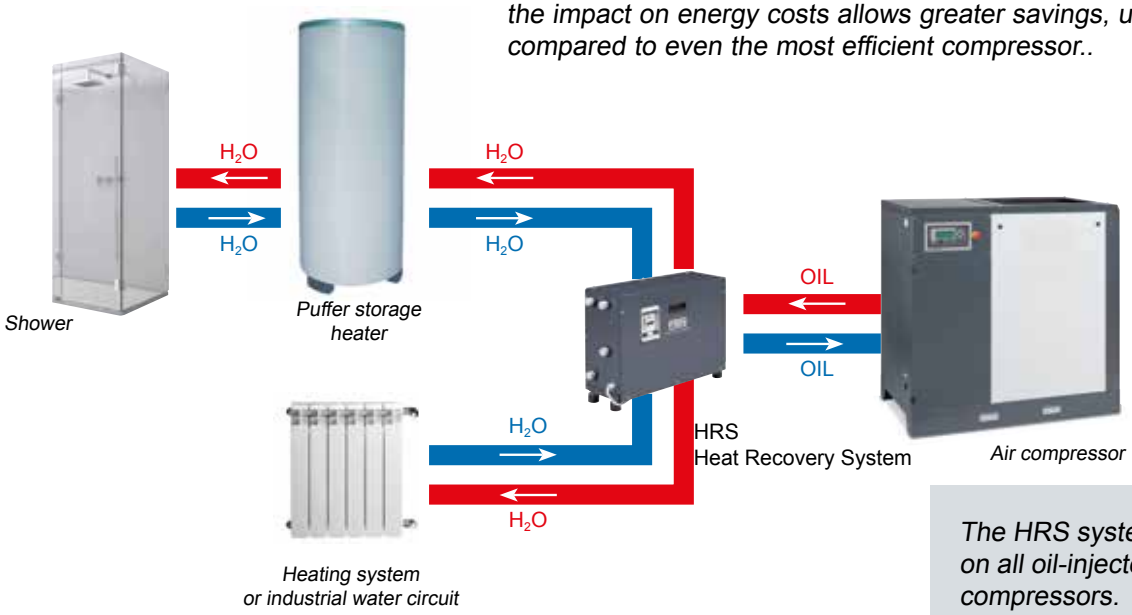
About 75% of the energy used is found in the lubrication and cooling circuit and can be used as a heat source, the remaining 15% is contained in the compressed air.

It is therefore easier to produce the compressed air in a reliable way, as it is to recover the thermal energy.

How great the recovery actually is, depends on the size of the compressors and the type of replaced energy (electricity, gas, heating oil), but the investment interest becomes sensitive from compressors of 11 kW installed power.

Given the current energy costs, the depreciation period of heat recovery systems fluctuates between 6 months and 2 years (with reference to a plate heat exchanger for heating systems).

Heat recovery is a real opportunity to increase the effectiveness of a compressed air system, the impact on energy costs allows greater savings, up to 3 times compared to even the most efficient compressor..



The HRS system can be used on all oil-injected screw compressors.

CODE	TYPE	V/Ph/Hz	kW*	*Max water flow rate (m^3/h)*	G	L x D x H (mm)	kg	lbs
HRS for screw compressors								
	HRS 20	230/1/50	11 - 15	1,86	3/4"	666 x 236 x 430	24,2	53,3
	HRS 30	230/1/50	18,5 - 22	1,92	3/4"	666 x 236 x 430	24,4	53,8
	HRS 50	230/1/50	30 - 37	4,2	3/4"	666 x 236 x 430	27,5	60,6
	HRS 75	230/1/50	45 - 55	6	3/4"	666 x 236 x 430	29,3	64,6
	HRS 100	230/1/50	75	7,8	3/4"	666 x 236 x 430	35,3	77,8

** kW refer to the electric compressor power*

A wide range of solutions for industrial applications

K-Max 5,5-15

Gearless direct drive oil-injected screw compressors, from 5.5 to 15 kW power, fixed and variable speed.

K-Max 22-38

Gearless direct drive oil-injected screw compressors, from 22 to 37 kW power, fixed and variable speed.

Micro - Plus

Belt-driven oil-injected rotary screw compressors, from 2.2 to 75 kW power, fixed and variable speed.

Tera SD

Gearless direct drive oil-injected screw compressors, from 75 to 250 kW power, fixed and variable speed.

OS Scroll

Oil-free spiral scroll compressors, from 2.2 to 22 kW power, single or multi-scroll, fixed and variable speed.

ENERGY SAVING DEVICES

The Air Saver device, made up of a motorised ball valve and a programmable timer, installs at tank outlet and can be programmed to open automatically just before work begins and shut down right after shift end to prevent losses and cut running costs due to compressor and air treatment system idle time.

AS1

AS2

CODE	TYPE	bar	p.s.i.	G
8193600	**AS1**	16	232	1”
8193601	**AS2**	16	232	2”

AIR LEAKAGE DETECTOR

The losses of compressed air in the distribution lines on the premises are a huge loss of electricity;
Locator is a simple electronic instrument capable of detecting leaks of compressed air up to 10 meters away.

CODE	TYPE
8193602	**Locator**

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