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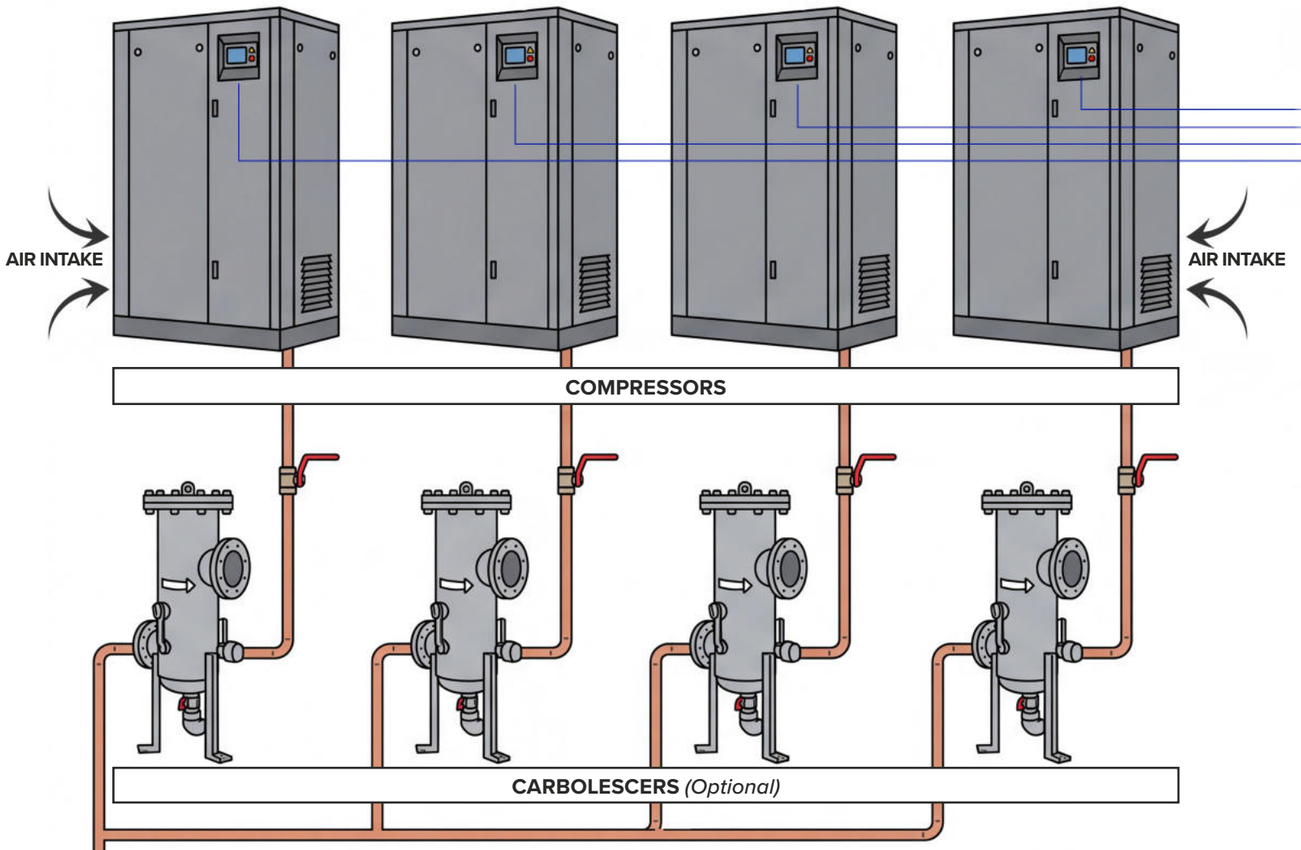
MEDAIR (MA4 – SA7)
Medical Compressed Air Systems

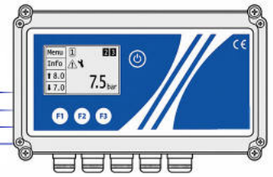
Medical air systems are centralized systems designed to provide clean, dry, high-purity compressed air, which is critical for patient respiratory support, surgical procedures, and other medical applications in hospitals and healthcare facilities.

These systems incorporate essential components such as **compressors, air receivers, dryers, filters, and pressure regulators** to ensure the reliable production and delivery of medical air.

Thanks to its modular design, MEDAIR comes as an easily **configurable package**, offering reliable and flexible solutions to meet a wide range of medical air requirements.

MEDICAL COMPRESSED AIR SYSTEM SCHEMATIC





EQUAL AGING CONTROLLER (Synchroniser)

OPTIMUM SYSTEM CONFIGURATION

This schematic illustrates a comprehensive medical compressed air system configuration, incorporating additional air treatment, cooling and protection equipment for **enhanced system performance and air quality.**

The equipment shown represents an optimum configuration and is intended to demonstrate the complete range of available system components.

Depending on project requirements, operating conditions, air quality and system design, certain components may not be required and can be omitted.

COMPRESSOR CONFIGURATION

Oil-free scroll and **oil-injected screw** compressors can be selected according to the required system capacity, and project requirements. Multiple compressor configurations, including **double, triple, and quadruple arrangements**, may be provided depending on the required air demand and system design.

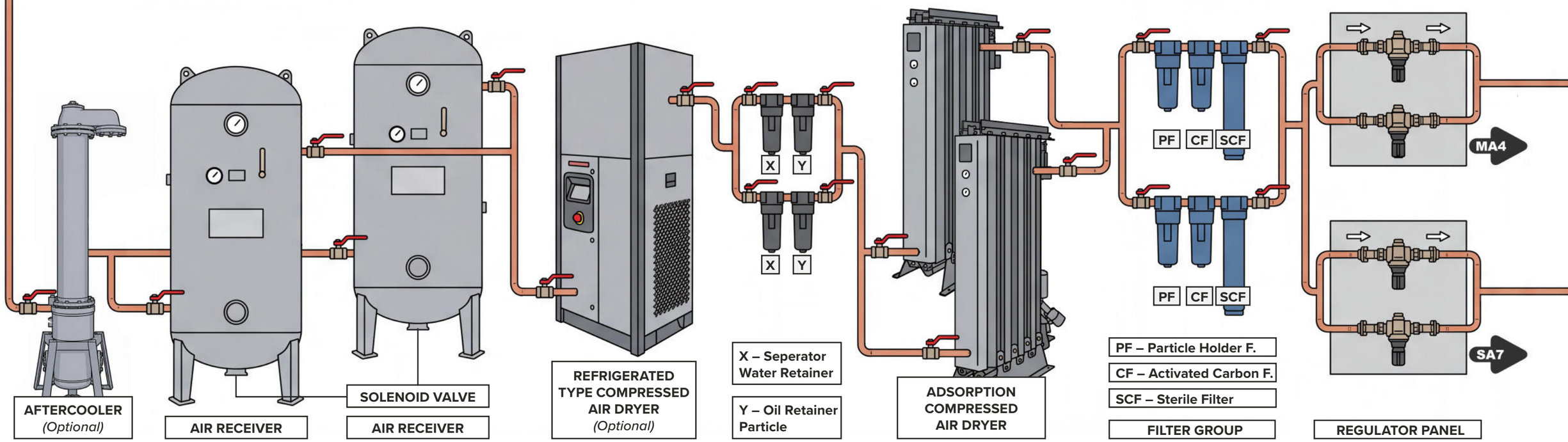
The number, type, and capacity of compressors are determined according to project requirements.

DRYER CONFIGURATION

The configuration shown represents an **optimum combination** of **refrigerated and adsorption dryers.**

Adsorption drying is generally preferred for medical compressed air applications. **Both drying methods can be used individually**; a refrigerated dryer may also be used as a standalone solution where project and ambient conditions permit.

The number, type, and capacity of dryers are determined according to project requirements.



Rotary Screw Air Compressors

- TIDY-DVK Series screw compressors can be integrated into MEDAIR medical air systems according to the required capacity and system configuration
- **Oil-Injected, Belt-Driven and Fixed-Speed** design provides reliable continuous operation with compact dimensions and flexible configuration options.



Compressor Options

TIDY-DVK Series – Screw

The screw block provides high-capacity air and is specially selected according to each model's capacity requirements.

The system operates reliably at ambient temperatures and offers superior reliability.

The Optimized air intake chamber separates cool air intake and hot air discharge.

Efficient motor and high-quality components reduce energy and maintenance costs while ensuring long service life.

Without the need for an external main controller, ability to co-aged work synchronized with Master/Slave for up to two compressors.

Main Motor and Drive System
IE3 efficiency-class electric motor
Belt-Pulley drive system

Oil Seperator
Effective separator elements keep oil content low (1–3 mg/m^3) for high-quality compressed air.

Cooling System
High efficiency thanks to optimized cooling performance

Air Filter
Two-stage filtration with 99.9% particle separation efficiency dowr to 3 microns. (initial/precision)

Controller
Internal ModBus communication
Alarm log records last 20 alarms

Model	Pressure		Capacity*		Motor	Connection	Dimensions [Width x Length x Height] (mm)		Weight (kg)	
	bar	psi	m³/min	cfm	kW/HP		Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer
TIDY 3	7,5	110	0,3	10,6	2,2/3	G1/2”	757 x 628 x 1057	1830 x 680 x 1557	165	320
	8,5	125	0,28	9,9						
	10	145	0,22	7,6						
	13	190	0,18	6,4						345
TIDY 4	7,5	110	0,44	15,4	3/4	G1/2”	757 x 628 x 1057	1830 x 680 x 1557	170	325
	8,5	125	0,36	12,7						
	10	145	0,28	9,7						
	13	190	0,20	7,1						350
TIDY 5	7,5	110	0,54	19,2	4/5,5	G1/2”	757 x 628 x 1057	1830 x 680 x 1557	170	325
	8,5	125	0,5	17,7						
	10	145	0,37	12,9						
	13	190	0,29	10,2						350
TIDY 7	7,5	110	0,71	25,2	5,5/7,5	G1/2”	785 x 715 x 1106	1880 x 715 x 1606	205	360
	8,5	125	0,66	23,3						
	10	145	0,56	19,8						
	13	190	0,41	14,5						385
TIDY 10	7,5	110	1,07	37,8	7,5/10	G3/4”	785 x 715 x 1106	1880 x 715 x 1606	230	405
	8,5	125	1	35,3						
	10	145	0,87	30,9						
	13	190	0,64	22,6						430
TIDY 15	7,5	110	1,65	58,2	11/15	G3/4”	962 x 732 x 1200	1880 x 732 x 1700	295	470
	8,5	125	1,51	53,4						
	10	145	1,35	47,8						
	13	190	1,11	39,2						495
TIDY 20	7,5	110	2,26	79,9	15/20	G3/4”	962 x 732 x 1200	1880 x 732 x 1700	315	490
	8,5	125	2,18	77						
	10	145	2,05	72,4						
	13	190	1,48	53						515
TIDY 25	7,5	110	2,92	103	18,5/25	G3/4”	1039 x 948 x 1462	2135 x 1200 x 2010	425	835
	8,5	125	2,78	98,2						
	10	145	2,49	87,9						
	13	190	2,07	73,1						
TIDY 30	7,5	110	3,45	122	22/30	G3/4”	1039 x 948 x 1462	2135 x 1200 x 2010	465	900
	8,5	125	3,09	112						
	10	145	3,03	107						
	13	190	2,53	89,3						
TIDY 40	7,5	110	5,42	191	30/40	G1 1/4”	1135 x 1035 x 1600	-	665	-
	8,5	125	5,11	183						
	10	145	4,73	167						
	13	190	3,91	138						
TIDY 50	7,5	110	6,5	230	37/50	G1 1/4”	1135 x 1035 x 1600	-	725	-
	8,5	125	6,17	218						
	10	145	5,37	189						
	13	190	4,41	156						
DVK 60	7,5	110	7,34	259	45/60	G1 1/2”	1345 x 1150 x 1800	-	1030	-
	8,5	125	7,02	248						
	10	145	6,75	238						
	13	190	5,23	185						
DVK 75	7,5	110	9,66	341	55/75	G1 1/2”	1345 x 1150 x 1800	-	1130	-
	8,5	125	9,2	325						
	10	145	8,46	299						
	13	190	6,8	240						
DVK 100	7,5	110	12,5	441	75/100	G2	1600 x 1191 x 1900	-	1565	-
	8,5	125	11,87	419						
	10	145	11,07	391						
	13	190	9,23	326						

Technical specifications are subject to change without prior notice. Images are for illustrative purposes only and may vary by model.

Scroll Air Compressors

- DS Series scroll compressors can be integrated into MEDAIR medical air systems according to the required capacity and system configuration.
- **Oil-Free and Belt-Driven** design provides reliable continuous operation, compact dimensions and flexible configuration options.



Compressor Options

DS Series – Scroll

Orbital and fixed spiral elements align to create compression chambers.

The continuous movement of the orbital spiral compresses air from the atmosphere producing oil-free and pollutant-free air.

Soundproofed canopy with internal air cooler(s) water separator, stainless steel pipes, and a robust, durable single-unit or stacked design.

Without the need for an external main controller, ability to co-aged work synchronized with Master/Slave for up to two compressors.

For dual and multi-unit models:
3-time weekly programmer, maintenance alerts and history, equal ageing between units, and automatic operation based on air demand.

Main Motor and Drive System
IE3 efficiency-class electric motors
Belt-Pulley drive system

Compressor Block
Effective and oil-free scroll design
Integrated cooling fan on the scroll unit for effective cooling

Quiet Operation
Low noise level thanks to low vibration operation.

Easy Maintenance
Component placement specifically designed to reduce downtimes during maintenance process

Controller
Internal ModBus communication
Alarm log records last 20 alarms

	Model	Pressure		Capacity *		Motor	Connection	Dimensions [Width x Length x Height] (mm)			Weight (kg)		
		bar	psi	m³/min	cfm	kW/HP		Base Mounted	Tank Mounted	Tank + Dryer	Base Mounted	Tank Mounted	Tank + Dryer
SINGLE	DS1.5-S	8	115	0,16	5,65	1,5 / 2	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	195	329	372
	DS2.2-S	8	115	0,24	8,48	2,2 / 3	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	200	334	377
		10	145	0,2	7,06								
	DS3.7-S	8	115	0,4	14,13	3,7 / 5	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	220	354	397
		10	145	0,34	12,01								
	DS5.5-S	8	115	0,6	21,19	5,5 / 7	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	230	364	407
		10	145	0,47	16,6								
	DS7.5-S	8	115	0,85	30,01	7,5 / 10	G 1/2"	750x731x900	1773x823x1381	1818x823x1428	235	369	431
		10	145	0,68	24,01								
DOUBLE	DS7,5-D	8	115	0,8	28,25	(2 x 3,7) / 10	G 3/4"	1500x821x1050	1972x926x1725	-	405	590	-
		10	145	0,68	24,01								
	DS11-D	8	115	1,2	42,38	11(2 x 5,5) / 15	G 3/4"	1500x821x1050	1972x926x1725	-	425	610	-
		10	145	0,94	33,2								
	DS15-D	8	115	1,7	60,03	15(2 x 7,5) / 20	G 3/4"	1500x821x1050	1972x926x1725	-	440	625	-
		10	145	1,36	48,02								
TRIPLE	DS11-T	8	115	1,2	42,38	(3 x 3,7) / 15	G 1"	1500x823x1840	-	-	540	-	-
		10	145	1,02	36,02								
	DS16,5-T	8	115	1,8	63,57	16,5(3 x 5,5) / 22	G 1"	1500x823x1840	-	-	615	-	-
		10	145	1,41	49,79								
	DS22.5-T	8	115	2,55	90,05	22,5(3 x 7,5) /30	G 1"	1500x823x1840	-	-	625	-	-
		10	145	2,04	72,04								
QUADRUPLE	DS15-Q	8	115	1,6	56,5	15(4 x 3,7) / 20	G 1"	1500x823x1840	-	-	645	-	-
		10	145	1,36	48,03								
	DS22-Q	8	115	2,4	84,75	22(4 x 5,5) / 30	G 1"	1500x823x1840	-	-	745	-	-
		10	145	1,88	66,39								
	DS30-Q	8	115	3,4	120,07	30(4 x 7,5) / 40	G 1"	1500x823x1840	-	-	755	-	-
		10	145	2,72	96,06								

Unit performances measured in reference conditions which are 1 bar absolute air pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature.

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Aftercooler

The aftercooler cools hot compressed air leaving the compressor after the final compression stage. During the cooling process, water vapor in the air condenses into liquid, and the resulting condensate is removed from the system through a drainage system.

This process helps reduce moisture accumulation and corrosion risk in the compressed air piping while lowering the moisture load on downstream drying equipment.

Post-Compression Cooling
Cools hot compressed air after the final compression stage.

Condensate Removal
Removes condensed moisture through a separator and drain.

Air / Water Cooled
Available in air-cooled or water cooled configurations.

Reduced Moisture Load
Reduces the moisture load on downstream dryers.

The aftercooler is an optional equipment offered according to system and project requirements.



Compressor Synchronization & Equal Aging Controller

An industrial electronic controller designed for efficient and balanced compressor room management.

Three operating modes — **Balance Hours, Priority, and Smart** — provide flexible compressor management for different system needs, helping maintain balanced operation and stable system performance.

An integrated timer enables programmable time bands and pressure settings while helping maintain constant line pressure and optimize energy consumption.

Balance Hours
Rotates compressor operation based on running hours to ensure balanced use and even wear.

Priority Mode
Assigns compressor priorities to define the preferred operating sequence.

Smart Mode
Automatically adjusts compressor operation to actual air demand for optimized energy consumption.

Programmable Time Bands
Enables different operating times and pressure settings.

Energy Optimization
Helps reduce energy consumption.



Compressed Air Receivers

Instead of requiring the air compressors to run continuously at maximum capacity for every sudden air demand, the tank stores a volume of compressed air. This helps maintain stable pressure across the system during changing demand conditions.

The automatic drainage system automatically removes condensed liquid accumulated in the tank.

Available in different capacities to meet various system requirements.

Automatic Drainage
Bottom-mounted solenoid valve

Fast Response
Handles sudden demand peaks

Pressure Stability
Keeps system pressure steady

Air Reserve
Supports continuous air availability

Long-Lasting
Engineered for lasting performance

Material Options
Galvanized or stainless steel

Model	Volume	Pressure	Configuration	Dimensions (mm)		Connection Inlet / Outlet
	L	bar		Diameter	Height	
DHT 100	100	10	VERTICAL	324	1564	G 1"
		15	VERTICAL	324	1564	G 1"
DHT 200	200	10	VERTICAL	450	1618	G 1"
		15	VERTICAL	450	1618	G 1"
DHT 300	300	10	VERTICAL	450	1918	G ¾"
		16,5	VERTICAL	500	1960	G 1"
		40	VERTICAL	450	2012	G 1"
DHT 500	500	10	VERTICAL	642	1980	G 1"
		17	VERTICAL	642	2115	G 1"
		40	VERTICAL	642	2083	G 1 ¼"
DHT 900	900	10	VERTICAL	800	2120	G 1 ½"
DHT 1000	1000	10	VERTICAL	850	2120	G 1 ½"
		17	VERTICAL	850	2292	G 1 ½"
		40	VERTICAL	850	2120	G 1 ½"
DHT 1800	1800	10	VERTICAL	1150	2150	G 2"
		15	VERTICAL	1150	2150	G 2"
DHT 2000	2000	10	VERTICAL	1080	2566	G 2"
		15	VERTICAL	1080	2566	G 2"
		15	VERTICAL	1150	2240	G 2"
DHT 3000	3000	10	VERTICAL	1400	2370	G 2 ½"
		15	VERTICAL	1400	2370	G 2 ½"
DHT 4000	4000	10	VERTICAL	1400	3120	G 3"
		15	VERTICAL	1400	3120	G 3"
DHT 5000	5000	10	VERTICAL	1400	3870	G 3"
		15	VERTICAL	1400	3870	G 3"
DHT 6000	6000	10	VERTICAL	1500	3930	G 3"
		15	VERTICAL	1500	3930	G 3"
DHT 8000	8000	10	VERTICAL	1750	4040	DN100
		15	VERTICAL	1750	4040	DN100
DHT 10000	10000	10	VERTICAL	1900	4100	DN100
		15	VERTICAL	1900	4100	DN100

Technical specifications are subject to change without prior notice. Images are for illustrative purposes only and may vary by model.



Dryer Options

DMD Modular Adsorption Compressed Air Dryers

DMD model adsorption dryers use a modular design for a lightweight, compact body.

DMD Series adsorption dryers can be integrated into MEDAIR medical air systems according to the required capacity and system configuration.

Having half the size and weight of traditional twin tower adsorption dryers, they provide users with the advantage of flexible installation.

This is one of the adsorption air dryer models with the lowest pressure drop in the world with its highly engineered inlet valve and discharge manifold design.

Low Footprint
Lightweight, compact design

Corrosion Resistance
Durable aluminium structure

Reliable Control
Problem-free electronic control

Flexible Mounting
Floor, bench, or wall installation

Workplace Flexibility
Suitable layout for any workplace

High Efficiency
Flexible and optimized energy use

Low Dew Point
-40°C to -70°C (optional)

Model	Capacity		Max. Pressure		Connection	Filter	Voltage	Dimensions (mm)			Weight	Controller
	m³/min	cfm	bar	psi			(V/ph/Hz)	Length	Width	Height	kg	
DMD 3	0,08	3	16	232	G 1/2"	GON35 MX+MY+MP	230/1/50-60	336	320	558	17	Crouzet Millenium 3
DMD 5	0,17	5	16	232	G 1/2"	GON35 MX+MY+MP	230/1/50-60	320	320	633	19	Crouzet Millenium 3
DMD 10	0,33	10	16	232	G 1/2"	GON35 MX+MY+MP	230/1/50-60	320	320	908	27	Crouzet Millenium 3
DMD 15	0,42	15	16	232	G 1/2"	GON35 MX+MY+MP	230/1/50-60	350	370	808	31	Crouzet Millenium 3
DMD 20	0,58	20	16	232	G 1/2"	GON55 MX+MY+MP	230/1/50-60	350	370	1108	42	Crouzet Millenium 3
DMD 25	0,75	25	16	232	G 1/2"	GON55 MX+MY+MP	230/1/50-60	350	370	1258	48	Crouzet Millenium 3
DMD 30	0,83	30	16	232	G 1/2"	GON55 MX+MY+MP	230/1/50-60	350	370	1508	54	Crouzet Millenium 3
DMD 40	1,17	40	16	232	G 1 1/2"	GON100 MX+MY+MP	230/1/50-60	495	410	1250	71	Crouzet Millenium 3
DMD 50	1,42	50	16	232	G 1 1/2"	GON100 MX+MY+MP	230/1/50-60	495	410	1400	78	Crouzet Millenium 3
DMD 60	1,67	60	16	232	G 1 1/2"	GON100 MX+MY+MP	230/1/50-60	495	410	1750	92	Crouzet Millenium 3
DMD 75	2,17	75	16	232	G 1 1/2"	GON150 MX+MY+MP	230/1/50-60	622	430	1300	120	Crouzet Millenium 3
DMD 100	2,83	100	16	232	G 1 1/2"	GON225 MX+MY+MP	230/1/50-60	622	430	1450	133	Crouzet Millenium 3
DMD 120	3,33	120	16	232	G 1 1/2"	GON225 MX+MY+MP	230/1/50-60	622	430	1750	152	Crouzet Millenium 3
DMD 180	5,00	180	16	232	G 1 1/2"	GON400 MX+MY+MP	230/1/50-60	734	410	1499	186	Crouzet Millenium 3
DMD 240	6,67	240	16	232	G 1 1/2"	GON500 MX+MY+MP	230/1/50-60	889	410	1497	235	Crouzet Millenium 3
DMD 340	9,6	340	16	232	2"	GON600 MX+MY+MP	230/1/50-60	994	400	1654	400	Crouzet Millenium 3
DMD 400	11,3	400	16	232	2"	GON800 MX+MY+MP	230/1/50-60	1335	400	1554	600	Crouzet Millenium 3
DMD 500	14,2	500	16	232	2"	GON1000 MX+MY+MP	230/1/50-60	1505	400	1654	700	Crouzet Millenium 3
DMD 590	16,7	590	16	232	2"	GON1000 MX+MY+MP	230/1/50-60	1675	400	1754	850	Crouzet Millenium 3
DMD 735	20,8	735	16	232	3"	GON1550 MX+MY+MP	230/1/50-60	1675	400	2054	950	Crouzet Millenium 3
DMD 890	25	890	16	232	3"	GON1550 MX+MY+MP	230/1/50-60	1845	400	2054	1050	Crouzet Millenium 3
DMD 1060	30	1060	16	232	3"	GON2000 MX+MY+MP	230/1/50-60	2015	400	2054	1200	Crouzet Millenium 3
20 bar												
DMD 20	0,7	25	20	290	G 1/4"	GON55 MX+MY+MP	115-230/1/50-60	483	365	1112	37	Crouzet Millenium 3
DMD 30	1	35	20	290	G 1/4"	GON55 MX+MY+MP	115-230/1/50-60	453	310	1510	48	Crouzet Millenium 3
DMD 40	1,5	53	20	290	G 3/8"	GON100 MX+MY+MP	115-230/1/50-60	382	410	1209	73	Crouzet Millenium 3
DMD 50	1,7	60	20	290	G 3/8"	GON100 MX+MY+MP	115-230/1/50-60	382	410	1360	80	Crouzet Millenium 3
DMD 75	2,2	78	20	290	G 1/2"	GON150 MX+MY+MP	115-230/1/50-60	382	520	1260	120	Crouzet Millenium 3
DMD 100	2,7	95	20	290	G 1/2"	GON150 MX+MY+MP	115-230/1/50-60	382	520	1410	133	Crouzet Millenium 3

CORRECTION FACTORS FOR DMD SERIES														
Pressure (bar)	4,5	5	6	7	8	9	10	11	12	13	14	15	16	20
F1	0,7	0,8	0,9	1	1,12	1,25	1,37	1,5	1,62	1,74	1,87	1,99	2,11	2,2
Inlet Temperature (°C)	20	25	30	35	40	45	50	–	–	–	–	–	–	–
F2	1	1	1	1	0,8	0,73	0,59	–	–	–	–	–	–	–

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2

DMD Dryer Sizing Example;

If a compressor delivers 2,0 m3 /min at 10 bar, the dryer inlet temperature is 40 °C.
Please choose your dryer as follows;

Dryer Capacity = 2,0 / 1,37 / 0,80 = 1,82 m3 /min

The correct dryer model for this application is DMD 75.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal

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Dryer Options

DRYAR DK Refrigerated Type Compressed Air Dryers

DRYAIR DK refrigerated type compressed air dryers cool the compressed air passing through them and keep it dry down to a dew point of +3°C. Inlet and outlet filters integrated into the dryer (up to the DK 210 model) reduce the particle level by 0.01 microns and the oil particle level by 0.01 mg/m^3.

DRYAIR DK dryers can be integrated into MEDAIR medical air systems according to the required capacity and system configuration.

With a compact design and minimum footprint, they provide flexible installation and easy access.

Smooth Performance
Very low pressure losses

Optimized Layout
Separate Electrical & Cooling Areas

Space Saving
Compact design, minimum footprint

Smart Management
Digital controller for energy savings

Efficient Operation
High efficiency and flexibility

Service Friendly
Easy access for maintenance

High Temperature Tolerance
Operates at 60°C inlet and 50°C ambient temperature

MODEL	Capacity*		Connection Size	Voltage**	Refrigerant	Maximum Working Pressure	Maximum Ambient Temperature	Maximum Inlet Temperature	Included Filter and Type	Dimensions (mm)			Weight
	m³/min	cfm				bar	°C	°C		Length	Width	Height	Kg
Dryair DK 10	0,35	12	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 55 MX+MY	423	393	567	32
Dryair DK 20	0,58	20	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 55 MX+MY	423	393	567	32
Dryair DK 30	0,83	29	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 55 MX+MY	423	393	567	32
Dryair DK 35	1,05	37	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 75 MX+MY	423	393	567	35
Dryair DK 40	1,45	51	G ¾"	230V/1/50 Hz	R-134a	16	50	60	GKON 155 MX+MY	473	453	832	51
Dryair DK 50	2,17	77	G ¾"	230V/1/50 Hz	R-134a	16	50	60	GKON 155 MX+MY	473	453	832	53
Dryair DK 60	2,83	100	G ¾"	230V/1/50 Hz	R-134a	16	50	60	GKON 155 MX+MY	473	453	832	55
Dryair DK 70	3,30	117	G 1 ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 405 MX+MY	553	503	874	78
Dryair DK 80	4,7	166	G 1 ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 405 MX+MY	553	503	874	83
Dryair DK 90	5,9	208	G 1 ½"	230V/1/50 Hz	R-134a	16	50	60	GKON 405 MX+MY	553	503	874	86
Dryair DK 100	7,8	275	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKON 805 MX+MY	678	648	1157	160
Dryair DK 110	9,8	346	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKON 805 MX+MY	678	648	1157	165
Dryair DK 120	13,8	487	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKON 1205 MX+MY	948	728	1370	220
Dryair DK 130	18,3	646	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKON 1205 MX+MY	948	728	1370	230
Dryair DK 140	21,8	770	G 3"	400V/3/50Hz	R-134a	16	50	60	GKON 1805 MX+MY	948	798	1460	270
Dryair DK 150	27,1	957	G 3"	400V/3/50Hz	R-134a	16	50	60	GKON 1805 MX+MY	948	798	1460	285
Dryair DK 160	36,7	1296	G 3"	400V/3/50Hz	R-134a	16	50	60	GKON 2775 MX+MY	1163	778	1725	392
Dryair DK 170	43,7	1543	G 3"	400V/3/50Hz	R-134a	16	50	60	GKON 2775 MX+MY	1163	778	1725	410
Dryair DK 180	52,4	1850	DN100	400V/3/50Hz	R-134a	16	50	60	GKON 5850 MX+MY	1397	847	1770	492
Dryair DK 190	61,6	2175	DN100	400V/3/50Hz	R-134a	16	50	60	GKON 5850 MX+MY	1397	847	1770	520
Dryair DK 200	80,0	2825	DN100	400V/3/50Hz	R-134a	16	50	60	GKON 5850 MX+MY	1467	1077	1930	696
Dryair DK 210	92,0	3249	DN100	400V/3/50Hz	R-134a	16	50	60	GKON 5850 MX+MY	1467	1077	1930	718
Dryair DK 220	109,7	3874	DN150	400V/3/50Hz	R-134a	16	50	60	Not Included	2188	1062	1925	900
Dryair DK 230	123,9	4375	DN150	400V/3/50Hz	R-134a	16	50	60	Not Included	2188	1062	1925	925
Dryair DK 240	141,6	5001	DN150	400V/3/50Hz	R-134a	16	50	60	Not Included	2247	1200	2044	975
Dryair DK 250	165,2	5834	DN200	400V/3/50Hz	R-134a	16	50	60	Not Included	2247	1200	2044	1100
Dryair DK 260	196,7	6946	DN200	400V/3/50Hz	R-134a	16	50	60	Not Included	2550	1550	2100	1400

CORRECTION FACTORS FOR DRYAIR DK AIR DRYERS:								
Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,7	-	-
Pressure Bar	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25

DRYAIR DK Dryer Sizing Example;

If a compressor delivers 20 m3 /min at 6 bar, the dryer inlet temperature is 40OC and the ambient temperature is 30 °C,

Please choose your dryer as follows;

Dryer Capacity = 20 / 0.94 / 0.92 / 0.98 = 23,6 m3/min

The correct dryer model for this application is Dryair DK 150.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal

Capacity is given at atmospheric Pressure at 20 °C (ISO 1217) in accordance with norms ISO 7183-8573-1 and Pneurop 6611- Class 4-7 bar -35 °C inlet - 25 °C ambient. Consult sales representative for optional voltages.

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Compressed Air Filters

- **Durable Construction** — High-quality, corrosion-resistant aluminum die-cast housing for reliable performance
- **Corrosion Protection** — Electrostatic powder coating for maximum resistance against outdoor conditions
- **Manual Drain Valve** — Standard manual drain valve supplied with all filter models
- **Automatic Drain Options** — Float-operated or timer-controlled solenoid valve options available upon request
- **Differential Pressure Indicator** — Optional indicator for monitoring filter contamination levels



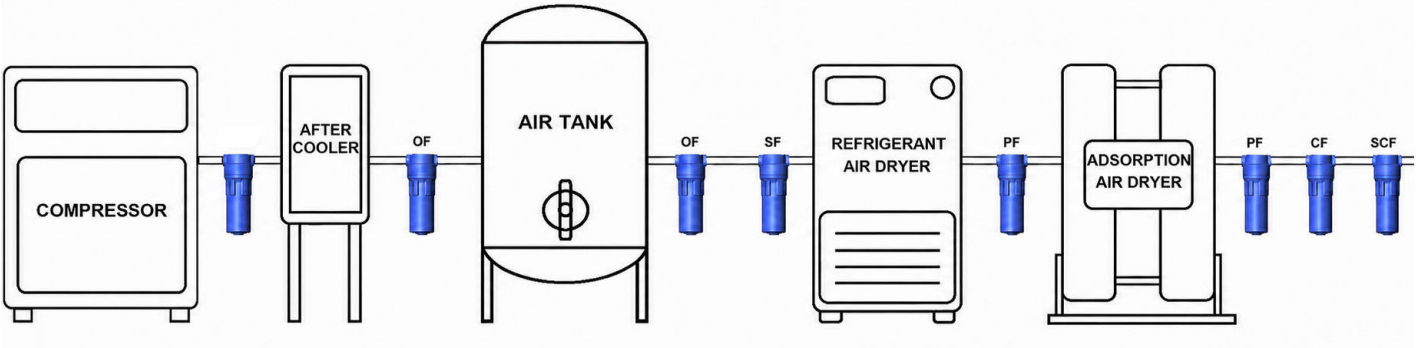
Filter Series	Function & Installation
OF Series	General-purpose pre-filter for dust and particle removal. Installed before the refrigerated dryer.
SF Series	General-purpose inlet filter for dust and oil removal. Installed at the refrigerated dryer inlet.
PF Series	Fine outlet filter for effective dust and oil removal. Installed at the refrigerated dryer outlet.
CF Series	Activated carbon filter for odor and oil vapor removal. Installed after PF filters.
SCF Series	Sterile outlet filter for breathing air applications. Installed after CF filters.

Element Type / Element Description	UNIT	OF SERIES General Purpose Filter	SF SERIES Water & Oil Filter	PF SERIES Fine Particle Filter	CF SERIES Activated Carbon Filter	SCF SERIES Sterile Filter
Particle Separation	micron	3	0.1	0.01	–	0.01
Oil Carryover (21°C)	mg/m³	–	0.1	0.01	0.003	0.01
Pressure Drop / New & Dry	mbar	35	60	80	60	80
Replacement Pressure Drop	mbar	700	700	700	6 months	6 months

Technical Specifications

Filter Model	Filter Capacity		Connection	Operating Temp.		Working Pressure		Filter Element Replacement		
	m³/h	L/Min.		Min.	Max.	Min.	Max.	Model	Hour	ΔP(bar)
F014	87	1.450	1/2”	2 °C	80 °C	2 bar	16 bar	EF014	3.500	0,7
F018	108	1.800	3/4”	2 °C	80 °C	2 bar	16 bar	EF018	3.500	0,7
F030	180	3.000	1”	2 °C	80 °C	2 bar	16 bar	EF030	3.500	0,7
F040	240	4.000	1”	2 °C	80 °C	2 bar	16 bar	EF040	3.500	0,7
F060	360	6.000	1 1/2”	2 °C	80 °C	2 bar	16 bar	EF060	3.500	0,7
F075	450	7.500	1 1/2”	2 °C	80 °C	2 bar	16 bar	EF075	3.500	0,7
F110	660	11.000	1 1/2”	2 °C	80 °C	2 bar	16 bar	EF110	3.500	0,7
F160	900	15.000	2”	2 °C	80 °C	2 bar	16 bar	EF160	3.500	0,7
F210	1200	20.000	2”	2 °C	80 °C	2 bar	16 bar	EF210	3.500	0,7
F300	1800	30.000	3”	2 °C	80 °C	2 bar	16 bar	EF300	3.500	0,7
F400	2400	40.000	3”	2 °C	80 °C	2 bar	16 bar	EF400	3.500	0,7
F500	3000	50.000	3”	2 °C	80 °C	2 bar	16 bar	EF500	3.500	0,7

Correction Factor	0,5	0,72	0,87	1	1,06	1,12	1,22	1,32	1,44
BAR	1	3	5	7	8	9	11	13	15
PSI	15	44	73	100	116	131	160	189	218

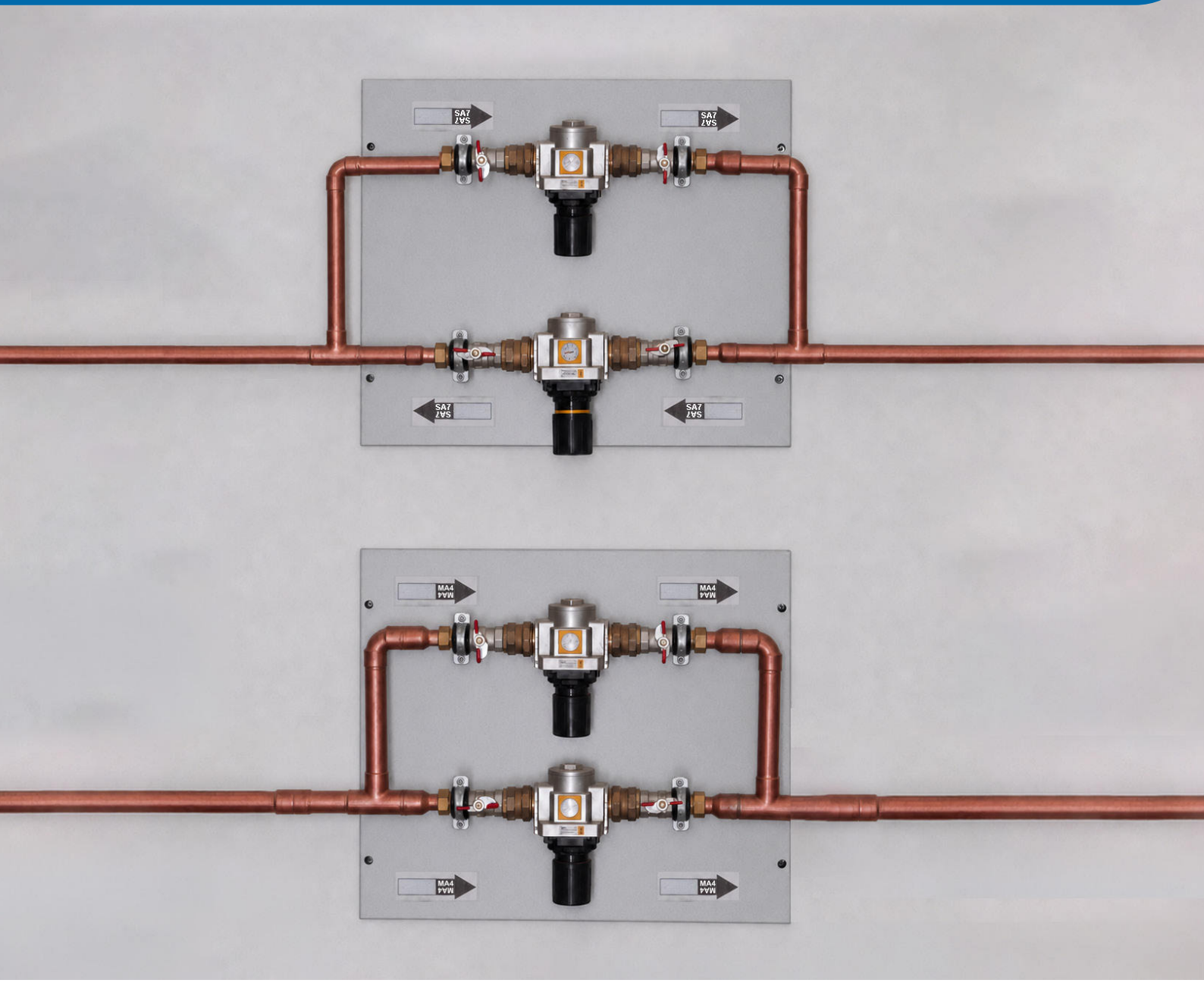


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Pressure Regulator Panel

The Air Regulator Group provides the final pressure regulation of compressed air from the medical air station, ensuring delivery at the required 4 and 7 bar pressure levels. *(May vary depending on the project.)*

- **Final Pressure —** Regulates compressed air from the medical air station to the required pressure level.
- **Controlled Air Supply —** Ensures stable pressure delivery for medical equipment and systems.
- **Flexible Configurations** — Dual-regulator (default) or regulator/bypass valve (optional) arrangements.



RE-1/2 REGULATOR	
Connection	G 1/2"
Working Pressure	0 - 16 bar
Outlet Pressure	0,3 - 10 bar
Flow Rate (L/min)	(6,3 bar ΔP: 1 bar) 2500 L/dk
Operating Temperature	0°C - 50°C (10 bar)
Minimum Pressure Difference	0,2 bar
Weight	581 gr

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