
Product Catalogue



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pneumatech
Pure air . Pure gas

Compressed Air Treatment

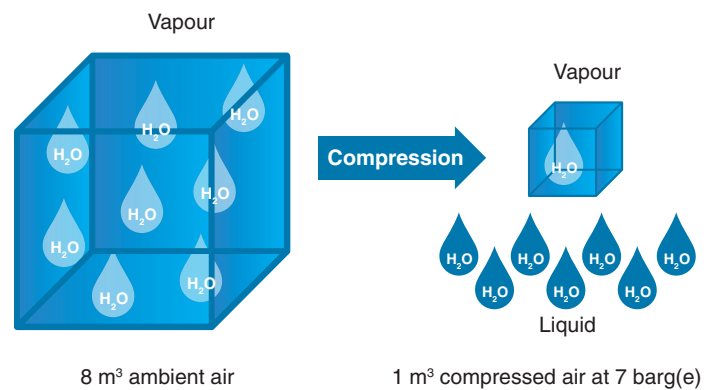
Untreated compressed air always contains contaminants because of the nature of the gas and how it is produced. The need for air treatment basically results from 3 characteristics of compressed air.

Contaminants

- Liquid water - water aerosols - water vapor

How are the contaminants formed?

As water is incompressible, the amount of moisture per m^3 increases when air is compressed. The maximum amount of moisture per m^3 air¹ is however limited for a certain temperature. Condensation will thus be formed when air is compressed.



What problems can the contaminants cause?

- Corrosion of pipe lines
- Bad quality of the end product
- Malfunctioning of controls
- Build-up of ice
- Cultivation of micro-organisms

The Pneumatech solution

- Water separators
- Drains
- Refrigeration dryers
- Adsorption dryers

¹The so-called holding capacity of moisture in air.

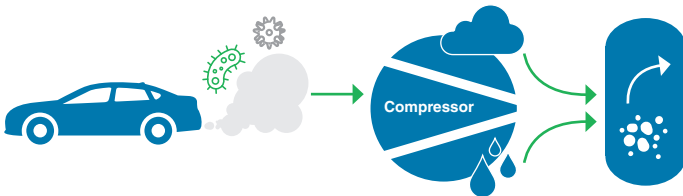
Contaminants

- Liquid oil - oil aerosols - oil vapor
- Dirt - microorganisms - pipescale
- Trace gases: carbon monoxide, sulfur dioxide, nitrous oxide

How are the contaminants formed?

Added by the compressor installation through oil lubricated compressors (oil), adsorption dryers and activated carbon filters (dirt), piping network and vessels (pipescale).

Trash in, trash out: oil vapors from car exhausts and industrial processes, atmospheric dirt and microorganisms get sucked in by the compressor. As with water, their concentration – and thus importance – increases significantly after compression.



What problems can the contaminants cause?

- Damaged production equipment, leading to inefficiencies and increased costs
- Air pollution, creating unhealthy work environments
- Pollution of the condensate

The Pneumatech solution

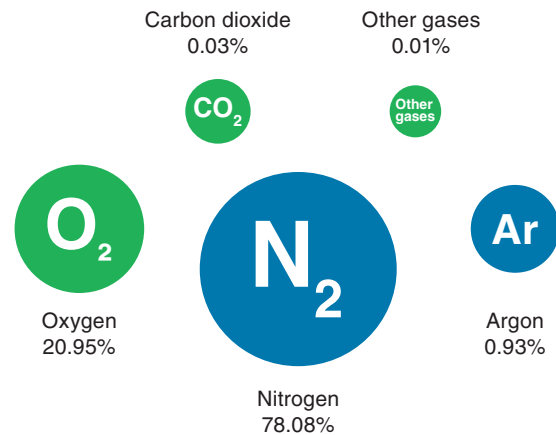
- Coalescing filters for oil aerosols/particles
- Oil vapor filters
- Dust filters
- Oil-water separators
- Breathing air units

Contaminants

- Oxygen: contaminant if oxidation is unwanted
- Nitrogen: contaminant if oxidation is wanted

How are the contaminants formed?

Dry air is mainly composed of nitrogen (78%) and oxygen (21%). Air will keep the same nitrogen/oxygen ratio after compression, so additional treatment is needed to change this gas mix.



What problems can the contaminants cause?

- Oxygen causes oxidation, leading to explosions or fire of flammables (fast oxidation) or to rotting processes and corrosion of metals (slow oxidation).
- Nitrogen is an inert gas that can prevent oxidation to happen.

The Pneumatech solution

- PSA nitrogen generators
- Membrane nitrogen generators
- PSA oxygen generators

AD-series Refrigerant Dryer



AD-series Refrigerant Dryer

- Optimized design, prevent the condensed water into compressed air system



Cost Saving

- Long maintenance intervals, reduce the downtime and maintenance times
- Improve the service-life and reliability of pneumatic instruments and devices
- Reduce the pipeline leakage and energy consumption
- Reduce the possibility that the final product quality be effected by moisture



Safe & Reliable

- Redundant design, high quality component
- Highly efficient cooling system contro (hot air by-pass)



Easy Installation

- Install and run
- Optimized structure, easy to install
- Single electric interface, automatic load adjustment



Technical data

50Hz

Model	Max Working Pressure bar	Air Treatment Capacity			Electrical V/Ph/Hz	Connection G/DN	Dimension LxWxH (mm)	Weight kg	Refrigerant
		l/min	CFM	m³/hr					
AD 30	13	1000	35	60	230/1/50	G3/4"	352x430x445	30	R 134A
AD 45	13	1500	53	90	230/1/50	G1"	550x370x800	32	R 134A
AD 65	13	2100	74	126	230/1/50	G1"	550x370x800	36	R 134A
AD 100	13	3500	124	210	230/1/50	G1.5"	520x500x800	60	R 410A
AD 135	13	4500	159	270	230/1/50	G1.5"	550x600x980	68	R 410A
AD 170	13	6000	212	360	230/1/50	G2"	550x600x980	75	R 410A
AD 215	13	7500	265	450	230/1/50	G2"	550x600x980	85	R 410A
AD 250	13	9000	318	540	230/1/50	G2"	900x750x1000	120	R 410A
AD 325	13	11500	406	690	230/1/50	G2.5"	1025x660x1120	138	R 410A
AD 415	13	15000	530	900	230/1/50	G2.5"	1025x660x1120	156	R 410A
AD 515	13	17500	618	1050	230/1/50	G2.5"	1025x660x1120	168	R 410A
AD 600	13	22500	794	1350	230/1/50	G2.5"	1025x660x1120	175	R 410A
AD 870	10	24600	869	1476	230/1/50	G2.5"	1025x660x1120	215	R410A
AD 1270	10	36000	1272	2160	400/3/50	DN100	1220x1000x1700	400	R410A
AD 1560	10	45000	1590	2700	400/3/50	DN100	1220x1000x1700	410	R410A
AD 1800	10	51000	1802	3060	400/3/50	DN100	1220x1000x1700	425	R410A
AD 2120	10	60000	2120	3600	400/3/50	DN150	1670x1000x1900	580	R410A
AD 2650	10	75000	2650	4500	400/3/50	DN150	1670x1000x1900	600	R410A

Technical data

60Hz

Model	Max Working Pressure bar	Air Treatment Capacity			Electrical V/Ph/Hz	Connection G	Dimension LxWxH (mm)	Weight kg	Refrigerant
		l/min	CFM	m ³ /hr					
AD 30	13	1000	35	60	220/1/60	G3/4"	432x354x445	30	R134A
AD 45	13	1500	53	90	220/1/60	G1"	550x370x800	36	R134A
AD 65	13	2100	74	126	220/1/60	G1"	550x370x800	38	R134A
AD 100	13	3300	116	198	220/1/60	G1.5"	520x500x800	60	R410A
AD 135	13	4500	159	270	220/1/60	G2"	550x600x980	85	R410A
AD 170	13	5700	201	342	220/1/60	G2"	550x600x980	85	R410A
AD 215	13	7200	254	432	220/1/60	G2"	550x600x980	85	R410A
AD 250	13	8400	297	504	220/1/60	G2.5"	1025x660x1120	135	R410A
AD 325	13	10800	381	648	220/1/60	G2.5"	1025x660x1120	135	R410A
AD 415	13	13800	487	828	220/1/60	G2.5"	1025x660x1120	135	R410A
AD 515	13	1700	600	1020	220/1/60	G2.5"	1025x660x1120	155	R410A
AD 600	13	20000	706	1200	220/1/60	G2.5"	1025x660x1120	155	R410A
AD 715	13	24000	847	1440	220/1/60	G2.5"	1025x660x1120	155	R410A

Correction Factor for conditions differing from the project $K=A \times B \times C$

AD 30-600

Temperature									
Room Temperature (A)									
Environment Temperature (°C)	25	30	35	40	45				
Correction Factor	1	0.91	0.81	0.72	0.62				
Operating Temperature (B)									
Inlet Temperature (°C)	25	30	35	40	45	50	55		
Correction Factor	1	1	1	0.82	0.69	0.58	0.49		
Operating Pressure (C)									
Inlet Pressure (bar)	5	6	7	8	9	10	11	12	13
Correction Factor	0.90	0.96	1.00	1.03	1.06	1.08	1.10	1.12	1.13

Correction factors to be used for site conditions outside of normal reference conditions (1) stated above = $A \times B \times C$

The new flow rate value can be obtained by dividing the current or real flow rate by the correction factor related to the real operation conditions.

AD 870-2650

Temperature									
Room Temperature (A)									
Environment Temperature (°C)	25	30	35	40	45				
Correction Factor	1	0.93	0.87	0.8	0.7				
Operating Temperature (B)									
Inlet Temperature (°C)	25	30	35	40	45	50	55		
Correction Factor	1	1	1	0.82	0.67	0.55	0.44		
Operating Pressure (C)									
Inlet Pressure (bar)	2	3	4	5	6	7	8	9	10
Correction Factor	0.375	0.5	0.625	0.75	0.875	1	1.08	1.15	1.22

Note	
Reference Conditions	
Operating Pressure	7 bar(100psi)
Operating Temperature	35°C
Room Temperature	25°C
Limit Conditions	
Max Operating Pressure	13 bar(188psi)
Max/Min Operating Temperature	55°C
Max Room Temperature	5°C/45°C

PRIMAK D-series Refrigerant Dryer



Precise dryness to meet your actual production requirements

- Excellent water separation efficiency and high heat dissipating capacity ensures PDP performance.



More energy saving system to improve your production efficiency

- Compared to the shell & tube refrigerant cooler, the HE with energy recycle system can reduce the energy consumption by 50%
- R410A refrigerant, energy saving and environment friendly.



Proper dimension and minimum installation space

- Integrated design makes full use of spaces to maximize the area occupied
- Flexible placement allowed backside to the wall



More reliable operation saves maintenance

- The cooling compressor with imported industrial-class motor
- HGB& Capillary system to keep the long-term stable operation
- Automatic assembly on flowline ensures the reliability of connections
- Strict factory inspection and pressure test ensure long-time and reliable operation

Design Standards	PRIMAK D10-21	PRIMAK D40-260
Dew Point	10°C	10°C
Pressure Range	4-13 bar / 60-188 psi	4-13 bar / 60-188 psi
Voltages	230V	230V
Frequency	50Hz	50Hz
Controller	Basic	Basic
Technology	Refrigerant R134a	Refrigerant R410A
Usage	Continuous	Continuous
Common Applications	Automotive, General Industry	Automotive, General Industry, Wood, Paper, Cement, Mining

Technical data

50Hz

Model	Max Working Pressure bar	Air Treatment Capacity			Electrical V/Ph/Hz	Weight kg	Connection G	Dimension LxWxH (mm)	Refrigerant
		l/min	CFM	m ³ /hr					
PRIMAK D10	13	1000	35	60	230/1/50	30	G3/4"	430x354x463	R 134a
PRIMAK D13	13	1300	46	78	230/1/50	36	G3/4"	548x400x615	R 134a
PRIMAK D21	13	2100	74	126	230/1/50	38	G3/4"	548x400x615	R 134a
PRIMAK D40	13	4000	141	240	230/1/50	56	G1"	600x520x750	R 410A
PRIMAK D66	13	6600	233	396	230/1/50	58	G1.5"	600x520x750	R 410A
PRIMAK D85	13	8500	300	510	230/1/50	75	G1.5"	650x650x875	R 410A
PRIMAK D105	13	10500	371	630	230/1/50	79	G2"	650x650x875	R 410A
PRIMAK D140	13	14000	494	840	230/1/50	102	G2"	752x745x960	R 410A
PRIMAK D175	13	17500	618	1050	230/1/50	119	G2"	752x800x1020	R 410A
PRIMAK D220	13	22000	777	1320	230/1/50	168	G2.5"	927x795x1126	R 410A
PRIMAK D260	13	26000	918	1560	230/1/50	174	G2.5"	927x795x1126	R 410A

Correction Factor

for conditions differing from the project $K=AxBxC$

Pressure Dew Point 10°C



Temperature									
Room Temperature (A)									
Environment Temperature (°C)	25	30	35	40	45				
Correction Factor	1	0.91	0.81	0.72	0.62				
Operating Temperature (B)									
Inlet Temperature (°C)	25	30	35	40	45	50	55	60	
Correction Factor	1	1	1	0.82	0.69	0.58	0.45	0.41	
Operating Pressure (C)									
Inlet Pressure (bar)	5	6	7	8	9	10	11	12	13
Correction Factor	0.90	0.97	1.00	1.03	1.06	1.08	1.10	1.12	1.13

Primak D design working condition: environment temperature 25°C. intake temperature 35°C. The maximal pressure drop: less than 0.35bar.

The new flow rate value can be obtained by dividing the current or real flow rate by the correction factor related to the real operation conditions.

Compressed Air Filters

Pneumatech Pride

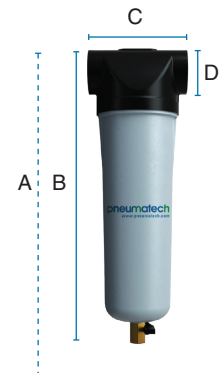
For over 40 years, Pneumatech products have provided complete solutions for all of our customers' filtration needs. Today, we're very proud to continue that legacy with our newest line of enhanced filtration systems and replacement elements – all in stock and ready to ship.

In the Pneumatech product range, we can deliver compressed air filters in dual offer with the PEF (Economic) and the PFF (Professional) variants.



Technical Data (PEF)

Model	Nominal Capacity			Max. pressure		Connection D	Dimension (mm)			Weight kg
	l/min	m³/h	CFM	bar	psi		A (For Disassembling)	B	C	
PEF 9	720	43	25	16	232	3/4"	312	237	90	0.76
PEF 18	1500	90	53	16	232	3/4"	312	237	90	0.77
PEF 25	2100	126	74	16	232	3/4"	367	292	90	0.89
PEF 35	3000	180	106	16	232	1"	380	305	110	1.39
PEF 60	4800	288	170	16	232	1.5"	435	360	126	1.67
PEF 105	8400	504	297	16	232	2"	565	465	155	3.29
PEF 140	11400	684	403	16	232	2"	600	500	155	3.63
PEF 175	15600	936	551	16	232	2"	645	545	155	3.86
PEF 260	21600	1296	763	16	232	2.5"	767	617	193	6.12
PEF 380	31500	1890	1112	16	232	3"	920	720	210	8.76
PEF 490	40500	2430	1430	16	232	3"	1090	890	210	10.3



Reference conditions:
 Compressed air inlet pressure: 7bar (g) 102 psig
 Compressed air inlet temperature: 1 °C/33.8°F

Important features and benefits
Enhanced high-performance filter cores ensure ultimate strength and low risk of implosion
New, enhanced filter design to ensure high filter efficiency, low pressure drop and guaranteed lifetime performance
Optimized head design for low pressure drop
Robust and extremely easy to maintain
Cartridge labeling color based on type of filtration grade, makes it easy to service

Options	PEF
Manual drain 1/4"	✓

✓ Standard

Pneumatech Model	Filter Grade Type	Filter Grade				Pressure Drop		Filter Element Label color
		Oil	Dust		Dry	Saturated		
		mg/m ³	% at 0.01µm	% at 1µm	% at MPPS	mbar	mbar	
G	Liquid removal filter	< 0.1	N/A	N/A	N/A	120	205	Red
C	High efficiency liquid removal filter	< 0.01	N/A	N/A	N/A	140	240	Green
S	Dust filters	N/A	99.87%	99.97%	99.81%	120	N/A	Red
D	High efficiency dust filter	N/A	99.992%	99.999%	99.97%	140	N/A	Green
V	Oil vapor and odor removal filter	0.003	N/A	N/A	N/A	160	N/A	Black

Correction Factor

Inlet Pressure (bar)	1	2	3	4	5	6	7	8	10	12	14	16
Inlet Pressure (psi)	15	29	44	58	72.5	87	102	116	145	174	203	232
Correction Factor	0.38	0.53	0.65	0.75	0.83	0.92	1	1.06	1.2	1.31	1.41	1.5

Technical Data (PPF)

Model	Nominal Capacity			Max. pressure		Connection D	Dimension (mm)			Weight kg
	l/min	m ³ /h	CFM	bar	psi		A (For Disassembling)	B	C	
PPF 9	720	43	25	16	232	3/4"	312	237	90	0.76
PPF 18	1500	90	53	16	232	3/4"	312	237	90	0.77
PPF 25	2100	126	74	16	232	3/4"	367	292	90	0.89
PPF 35	3000	180	106	16	232	1"	380	305	110	1.39
PPF 60	4800	288	170	16	232	1.5"	435	360	126	1.67
PPF 105	8400	504	297	16	232	2"	565	465	155	3.29
PPF 140	11400	684	403	16	232	2"	600	500	155	3.63
PPF 175	15600	936	551	16	232	2"	645	545	155	3.86
PPF 260	21600	1296	763	16	232	2.5"	767	617	193	6.12
PPF 380	31500	1890	1112	16	232	3"	920	720	210	8.76
PPF 490	40500	2430	1430	16	232	3"	1090	890	210	10.3



Reference conditions:

Compressed air inlet pressure: 7bar (g) 102 psig Compressed air inlet temperature: 20 oC/68oF

Important features and benefits
Enhanced high-performance filter cores ensure ultimate strength and low risk of implosion
New, enhanced filter design to ensure high filter efficiency, low pressure drop and guaranteed lifetime performance
Optimized head design for low pressure drop
Robust and extremely easy to maintain
Cartridge labeling color based on type of filtration grade, makes it easy to service

Options	PPF 9-25	PPF 35-490
Pressure gauge	—	✓
Pressure indicator	✓	—
Mechanical float drain	✓	✓

✓ Standard — Not available

Condensed Removal and Treatment

Automatic Drains



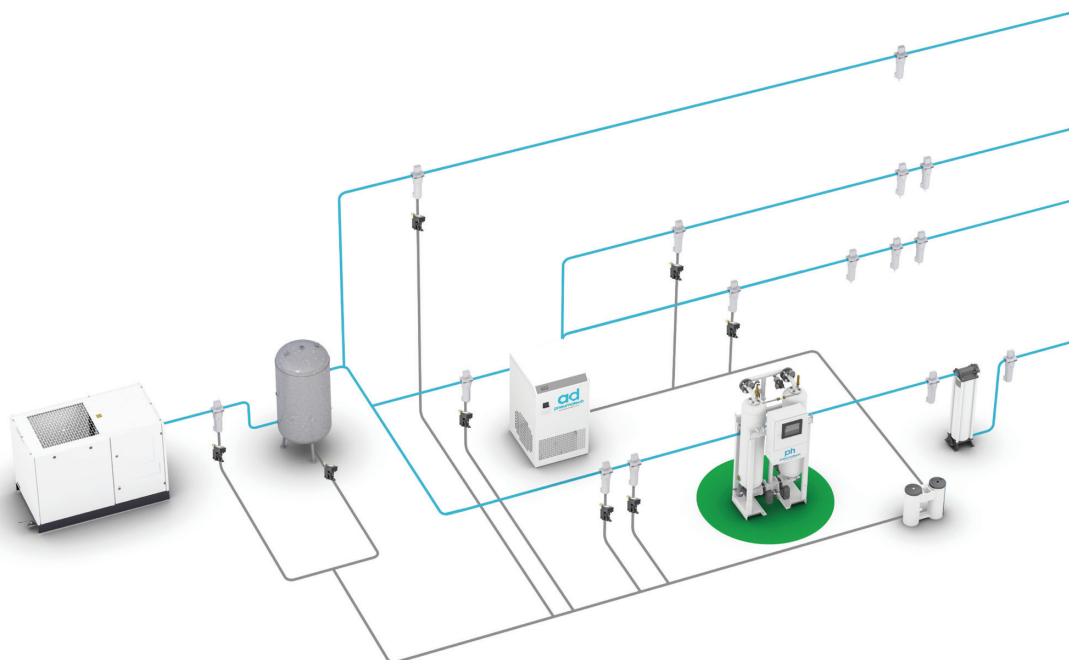
Model	Inlet	Outlet	Max Pressure	Min Temp	Max Temp	Nominal Discharge	Capacity
PFD 85	1/2"	6mm	16bar	1.5°C	85°C	22ml	84L/Hr
PZD 800	1/2"	1/2"	16bar	1.5°C	85°C	90ml	800L/Hr

Model	Inlet	Outlet	Max Pressure	Min Temp	Max Temp	Voltage
PED 320	1/2"	6mm	15bar	1.5°C	55°C	230V/1P/50-60Hz
Supply with 1.2 meter lead						

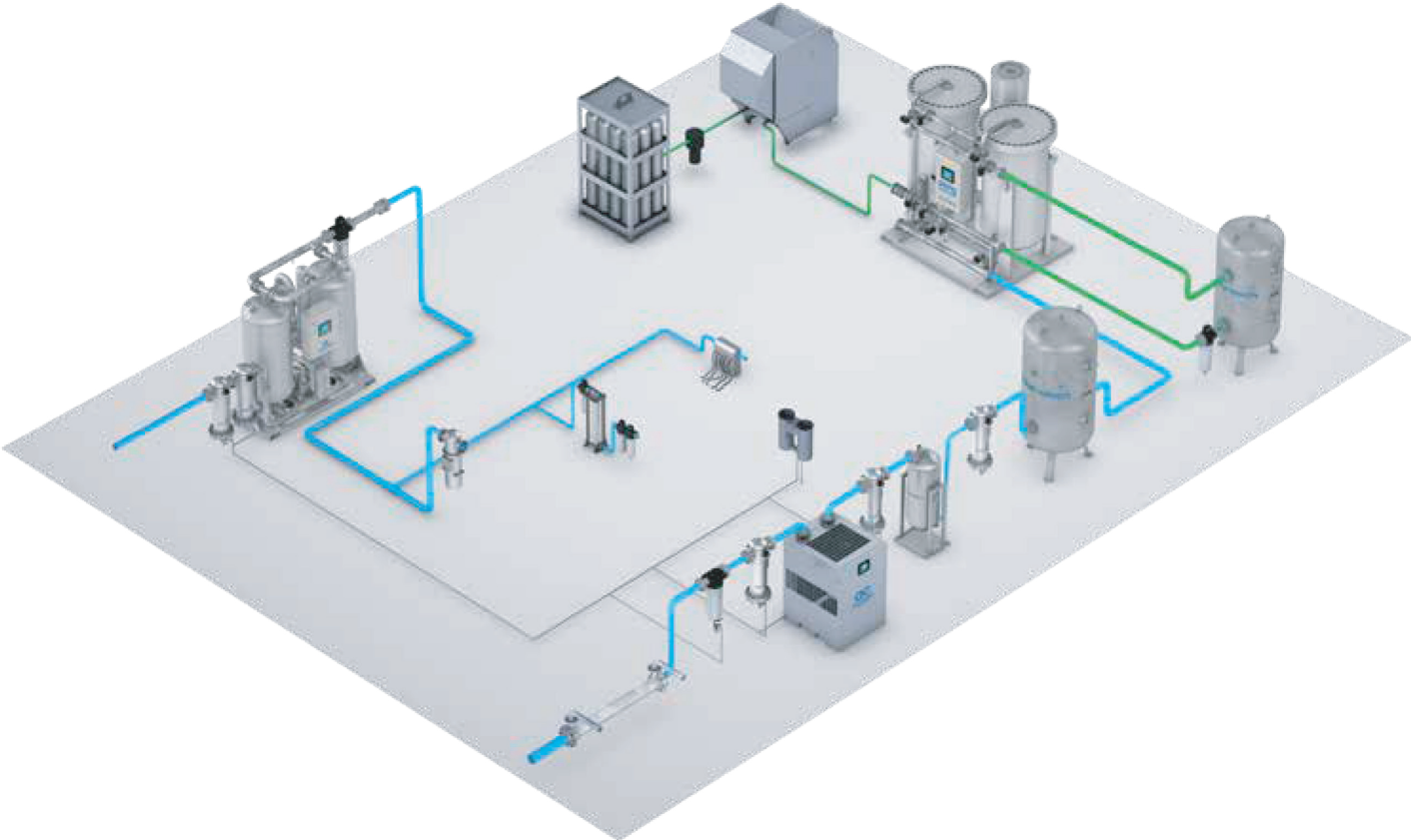
Oil Water Separator



Model	Nominal Flow			Inlet	Outlet	Dimension
	l/min	m ³ /h	CFM			
OSD 20	2000	120	71	1/4"	10	140x140x240
OSD 35	3500	210	124	1/2"	20	215x257x500
OSD 105	10500	630	371	1/2"	20	345x282x654
OSD 255	25500	1530	901	1/2"	20	432x495x989
OSD 365	36500	2190	1289	1/2"	20	432x495x989
OSD 510	51000	2190	1801	1/2"	20	990x520x989
OSD 710	71000	4260	2507	1/2"	20	990x520x989



Pneumatech Air Treatment





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