





HIGH QUALITY COMPRESSED AIR

FROM BEKO

The quality of your compressed air.

RELIABLE

The highest level of operational reliability is guaranteed with every product that BEKO manufactures.

EFFICIENT

Maximum energy efficiency and conservation are guiding principles of every product design.

ECONOMIC

Products that provide the quickest return on investment in the industry with the least amount of risk.

EFFECTIVE

German engineered with no compromises on quality.

EXPERIENCE

More than 25 years of industry leading experience stands behind our entire product offering.

SOLUTIONS

Your single source for a range of performance compressed air products designed to work in synergy.

Compressed air treatment and condensate technology.

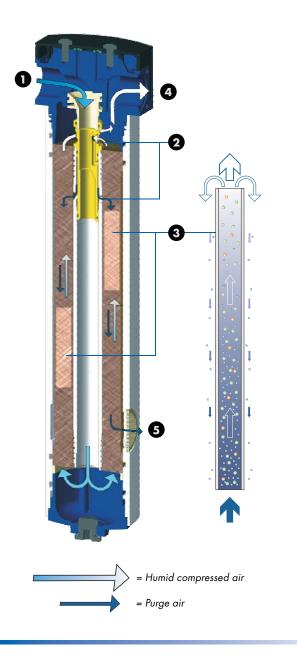


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A SIMPLE AND EFFECTIVE SOLUTION



• Compressed air runs through the core pipe, and is then diverted to the membrane element in the housing. The compressed air, which is still humid, flows through the highly selective hollow fiber membranes of the membrane element inside.

The purge air, which is required for drying, diverges continuously at the outlet area of the membrane element, and expands to atmosphere using a fixed nozzle orifice. Due to this expansion, the purge air becomes very, very dry as the water vapor now fills an expanded volume. The dry purge air flows over and around the exterior of the membrane fibers.

As a result, air flows in one direction outside the membrane, separated only by the membrane wall. Humid compressed air flows inside the membrane as dry purge air passes outside. Due to the difference in moisture content in the passing airstreams, moisture from the compressed air is drawn into the purge air. The use of Twist 60 technology ensures maximum drying efficiency.
Dried compressed air leaving the membrane element.
Saturated purge air is released back to atmosphere.

COMPRESSED AIR MEMBRANE DRYING TAILORED TO SIZE





TWIST 60 TECHNOLOGY Highest possible performance

+2:

MAXIMUM RELIABILITY Even in the toughest environments

+3: KEEPS Achieves

KEEPS THE PROMISES Achieves dew point in 5-minutes or less

+4:



H58 NO MOVING PARTS Reliable even in mobile applications



A Turn for the Better

What is Twist 60?

Twist 60 represents the unique arrangement of membrane fibers when winding: the fibers build up in layers around the center tube of the membrane element, each layer crossing the one before.

What is the advantage?

The lowest purge consumption, which means low energy costs:

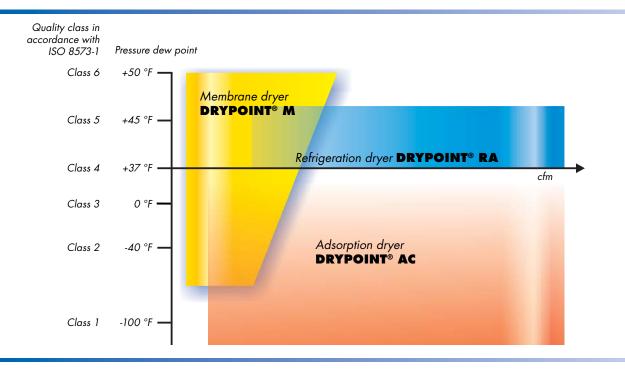
The purge air is distributed effectively in the whole membrane element, thus using the maximum available contact surface. This results in a highly efficient drying process.

Low space requirements:

The principle of Twist 60 reduces the total height of the membrane element, thus resulting in a smaller dryer.



PERFECT DESIGN Small footprints in several configurations





The Compressed Air and Gas Institute advises us to dry only the compressed air that is actually being used, and to make it only as dry as the application truly requires. Therefore, drying should be designed specifically to suit each application.

The compressed air dryer should also offer immediate availability and reliability. This applies whether the application is for laboratory areas, or a manufacturing facility application, whether mobile or stationary.

As is required for all drying methods, high quality pre-filtration is essential for the reliable function of a membrane dryer. CLEARPOINT[®] filters from BEKO go perfectly with the DRYPOINT[®] M membrane dryer.

Along with filtration, compressed air drying contributes significantly to the enhancement of process reliability. Water vapor in compressed air systems leads to accelerated corrosion and represents a permanent risk with regard to sensitive equipment, as well as increased wear and tear on production process machinery.



DRYPOINT® M PLUS AN INNOVATIVE ALL-IN-ONE SOLUTION

Thanks to the integration of the compressed air filter and the membrane dryer in a single unit, DRYPOINT® M PLUS offers exceptional reliability for every application. By taking advantage of the physical properties, the integrated construction is ideal in terms of airflow and filtration, because highly efficient filtration takes place immediately before the membrane.

DRYPOINT® M PLUS compressed air membrane dryers are compact and effective, using the latest Twist 60 technology from BEKO.

ALL-IN-ONE Filtration and drying in a single unit

H2: PERFECT SET-UP Filtration immediately before the membrane

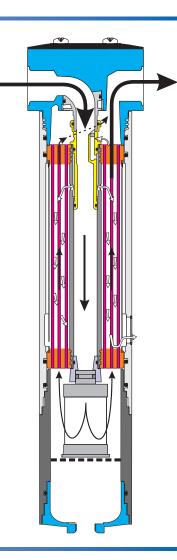
+3:

+5:

TWIST 60 TECHNOLOGY Peak efficiency

EASY AND SIMPLE Fast element replacement, low maintenance

> **BUILT-IN** Integral surge diverter



DRYPOINT® M TECHNICAL DATA

DRYPOINT® M and M PLUS are available in various model sizes for different degrees of drying. As a tubular model for flow rates up to 7 scfm and as a housing model up to 116 scfm. Higher volume flows are achieved by the parallel connection of several membrane dryers. The volume, flow, pressure, model size and purge air setting all exert influence on the drying capacity of DRYPOINT® M and M PLUS membrane air dryers. Depending on these factors and other conditions, pressure dew point reductions between 40 °F and 100 °F or more can be achieved. Custom designs are also offered for special applications.

Inlet PDP	+40°F	+100°F	+40°F	+100°F	+40°F	+100°F	+40°F	+100°F	
Outlet PDP	+22°F	+65°F	0°F	+35°F	-30°F	-4°F	-40°F	-20°F	
	Inlet Flow Rate (Outlet Flow Rate)								
DM 08-14 RA (19 KA-N)	1.83 (1.65)		0.98 (0.81)		0.64 (0.47)		0.58 (0.41)		
DM 08-19 RA (24 KA-N)	3.66	(3.31)	2.07	(1.72)	1.44	(1.09)	1.33	(0.98)	
DM 08-23 RA (28 KA-N)	5.49	(4.97)	3.10	(2.58)	2.15	(1.63)	2.00	(1.48)	
DM 08-29 RA (34 KA-N)	7.32	(6.78)	4.13	(3.43)	2.87	(2.33)	2.63	(2.09)	
DM 10-41 CA (-N)	11.00 (9.90)		6.20 (5.10)		4.31 (3.21)		3.90 (2.80)		
DM 10-47 CA (-N)	14.60 (13.20)		8.25	8.25 (6.85) 5.75 (4.35)		(4.35)	5.20 (3.80)		
DM 20-48 CA (-N)	22.00	(19.90)	12.40	(10.30)	8.63	(6.53)	7.90	(5.80)	
DM 20-53 CA (-N)	29.30	(26.50)	16.50	(13.70)	11.50	(8.70)	10.50	(7.70)	
DM 20-60 CA (-N)	38.30	(34.10)	24.20	(20.00)	17.30	(13.10)	16.00	(11.80)	
DM 20-67 CA (-N)	49.30 (44.00)		28.90 (23.60)		20.60 (15.30)		19.00 (13.70)		
DM 40-61 CA (-N)	58.10 (53.40)		35.50	(29.10)	25.20 (18.80)		23.50 (17.10)		
DM 40-75 CA (-N)	89.50	89.50 (80.10)		53.30 (43.90)		37.90 (28.50)		(25.90)	
DM 40-90 CA (-N)	116.00	(103.00)	71.10	(58.40)	50.50	(37.90)	46.80	(34.20)	

PRESSURE CORRECTION FACTORS

Pressure	60	75	90	100	115	130	145	160	175
Factor	0.39	0.57	0.78	1.00	1.19	1.40	1.62	1.87	2.11

Example: DM 10-41 CA

Drying capacity at 100 psig / +100 °F inlet PDP / +35 °F outlet PDP : 6.20 scfm

Factor for 75 psig: 0.57

Drying capacity at 75 psig operating pressure:

6.20 scfm x 0.57 = 3.53 scfm

* The drying capacity and pressure dew point suppression is based on an operating pressure of 100 psig.

Capacities are established in accordance with CAGI Standard No ADF 700:

Membrane Compressed Air Dryers - Method for Testing and Rating. For larger capacities, alternate pressures or dewpoints please consult BEKO.

	A in	B in	C in	D in	N NPT Connection	Weight Ibs	
DM 08-14 RA DM 08-19 RA DM 08-23 RA DM 08-29 RA	5.51 7.48 9.06 11.42			ø1.77 ø1.77 ø1.77 ø1.77	1/4" 1/4" 1/4" 1/4"	0.60 0.77 0.90 1.08	
DM 08-19 KA-N DM 08-24 KA-N DM 08-28 KA-N DM 08-34 KA-N	10.43 12.40 13.98 16.34	1.81 1.81 1.81 1.81 1.81	1.06 1.06 1.06 1.06	ø1.77 ø1.77 ø1.77 ø1.77	V4" V4" V4" V4"	1.74 1.92 2.07 2.27	
DM 10-41 CA (-N) DM 10-47 CA (-N) DM 20-48 CA (-N) DM 20-53 CA (-N) DM 20-60 CA (-N) DM 20-67 CA (-N) DM 40-61 CA (-N) DM 40-75 CA (-N) DM 40-90 CA (-N)	16.10 (19.76) 18.46 (22.19) 18.98 (22.57) 20.95 (24.59) 23.70 (27.35) 26.46 (29.98) 23.20 (31.30) 28.30 (36.80) 34.60 (42.75)	2.95 2.95 3.94 3.94 3.94 3.94 5.74 5.74 5.74	1.10 1.34 1.34 1.34 1.34 1.34 1.89 1.89 1.89		3/8" 3/8" 3/4" 3/4" 3/4" 3/4" 3/4" 1/2" 1/2" 1/2" 1/2"	4.58 (4.63) 4.97 (5.07) 7.66 (7.72) 8.38 (8.38) 8.99 (9.04) 9.64 (9.75) 17.14 (20.00) 19.56 (22.44) 22.00 (24.86)	