



DRYPOINT[®] RAc

Economy Series Compact Refrigeration Dryers

+ Features and Benefits

UNIQUE HEAT EXCHANGER:

vertical profile allows for minimum pressure drop and self cleans using gravitational force

VARIOFLOW HOT GAS BY-PASS:

stable dew point regardless of varying operating conditions - patented design

COMPACT DESIGN:

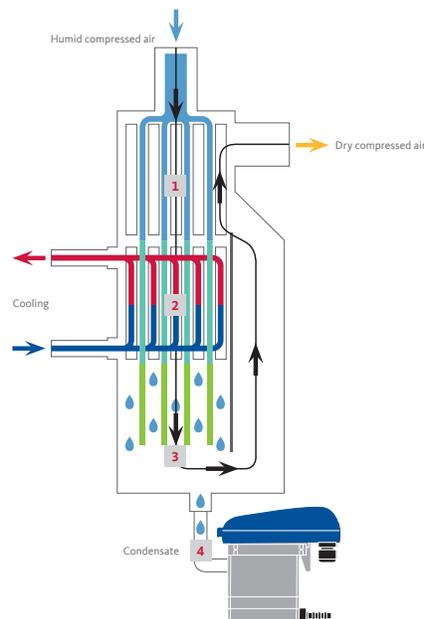
economic initial investment that also saves costly floor space with the smallest footprint in the industry



MAINTENANCE FRIENDLY:

the entire range features an open frame that provides easy access to all components

+ Operating Principle



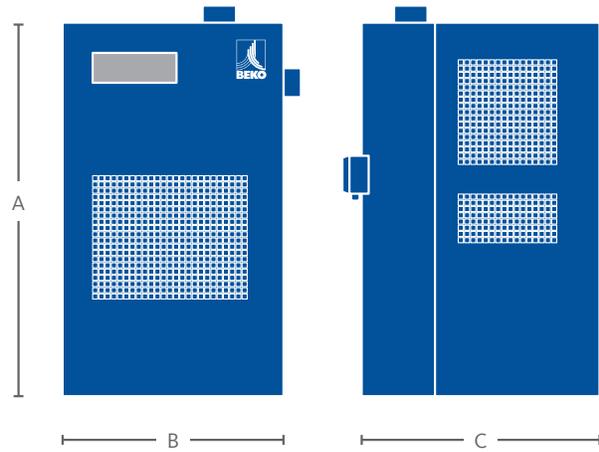
Warm compressed air, saturated with water vapor, is pre-cooled in the air/air heat exchanger [1] when entering the refrigeration dryer. The required cooling capacity of the refrigerant in the downstream air/refrigerant heat exchanger [2] is reduced by this action and the system becomes more energy-efficient. The gravitational force sustains a particularly high droplet separation of nearly 99%. In the very large condensate collection chamber with subsequent recirculation, the flow velocity is significantly reduced. Re-entrainment of already separated droplets is reliably prevented in

this manner [3]. The accumulated condensate is discharged from the DRYPOINT[®] RA via the level-controlled BEKOMAT[®] condensate drain avoiding any compressed air losses, and can be processed reliably using processing systems such as the QWIK-PURE[®] oil-water separation system or the BEKOSPLIT[®] emulsion-splitting plant [4]. Prior to leaving the DRYPOINT[®], the dried and cold compressed air is reheated in the air/air heat exchanger. Through this process, the relative air humidity is significantly reduced and the cooling capacity employed is recovered by up to 60%.

DRYPOINT® RAc Compact Refrigeration Dryers

economically priced with BEKOMAT® or with timer drain

Standard outlet pressure dew point	41 °F
Max. inlet air temperature	130 °F
Min./ Max. ambient temperature	34/115 °F
Max. inlet pressure	
RAc 10-50	232 psig
RAc 75-480	200 psig
Required Pre-filtration	1.0 µm
Recommended Post-filtration	.01 µm



Model	Flow Rate (scfm)	Pressure Drop (psid)	Connection Size	Standard Voltage	Power Input (kW)	A (in)	B (in)	C (in)	Weight (lbs)
RAc 10	10	2.18	¾" NPT-F	115V/1Ph	.19	17	12	14	46
RAc 15	15	.58	¾" NPT-F	115V/1Ph	.20	17	12	14	49
RAc 20	20	1.31	¾" NPT-F	115V/1Ph	.21	19	15	20	55
RAc 35	35	2.03	¾" NPT-F	115V/1Ph	.29	19	15	20	62
RAc 50	50	4.64	¾" NPT-F	115V/1Ph	.30	19	15	20	71
RAc 75	75	3.48	1" NPT-F	115V/1Ph	.45	29	14	17	75
RAc 100	100	2.32	1 ¼" NPT-F	115V/1Ph	.70	29	14	18	86
RAc 125	125	3.48	1 ¼" NPT-F	115V/1Ph	.97	29	14	18	88
RAc 150	150	4.93	1 ¼" NPT-F	115V/1Ph	1.00	29	14	18	90
RAc 175	175	2.76	1 ½" NPT-F	230V/1Ph	1.05	35	22	23	119
RAc 220	220	3.63	1 ½" NPT-F	230V/1Ph	.91	35	22	23	123
RAc 300	300	2.03	2" NPT-F	230V/1Ph	1.15	38	22	25	207
RAc 375	375	2.90	2" NPT-F	230V/1Ph	2.07	38	22	25	212
RAc 480	480	2.18	2 ½" NPT-F	230V/1Ph	2.25	44	26	29	317

Correction Factors

Operating Pressure psig	60	80	100	120	140	160	180	200
Correction Factor	.79	.91	1.00	1.07	1.13	1.18	1.23	1.27

Ambient Air Temperature °F	80	90	100	110	115
Correction Factor	1.10	1.07	1.00	.83	.70

Inlet Air Temperature °F	90	100	110	120	130
Correction Factor	1.11	1.00	.80	.65	.53

Pressure Dew Point °F	38	41	45	50
Correction Factor	.92	1.00	1.07	1.25

Subject to technical errors, changes, omissions and/or corrections without prior notice.