



DRYPOINT[®] RAx

Premium 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

INTEGRATED BEKOMAT[®]:

reliable condensate discharge and maximum energy savings



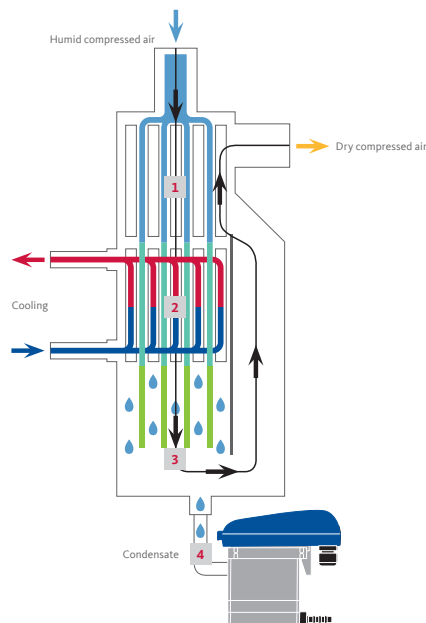
ENERGY SAVING TECHNOLOGY:

oversized condensers and smaller high performance compressor maximize energy savings

MAINTENANCE FRIENDLY:

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

+ Operating Principle



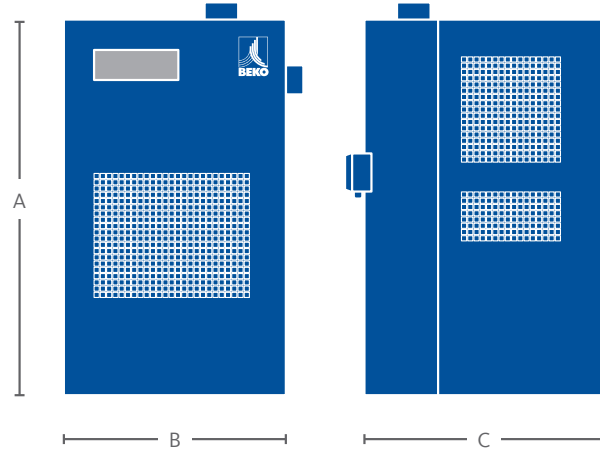
Warm compressed air, saturated with water vapor, is precooled in the air/air heat exchanger (1) when entering the refrigeration dryer. The required cooling capacity of the refrigerant in the downstream air/refrigerant heat exchanger (2) is reduced by this action and the system becomes more energy-efficient. 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® RAX Premium Refrigeration Dryers

equipped with all premium features including BEKOMAT® as standard

Standard outlet pressure dew point	38 °F
Max. inlet air temperature	160 °F
Min. / Max. ambient temperature	34/120 °F
Max. inlet pressure	
RAx 20-50	232 psig
RAx 75-7800	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)
RAx 20	20	.44	½" NPT-F	115V/1Ph	.26	29	14	17	62
RAx 30	30	1.16	½" NPT-F	115V/1Ph	.27	29	14	17	64
RAx 50	50	1.60	½" NPT-F	115V/1Ph	.39	29	14	17	75
RAx 75	75	1.89	1" NPT-F	115V/1Ph	.48	29	14	17	79
RAx 100	100	2.47	1 ½" NPT-F	115V/1Ph	.58	32	19	18	82
RAx 125	125	2.18	1 ½" NPT-F	115V/1Ph	1.00	32	19	18	101
RAx 150	150	2.90	1 ½" NPT-F	115V/1Ph	1.05	32	19	18	110
RAx 200	200	2.18	1 ½" NPT-F	115V/1Ph	1.10	35	22	23	121
RAx 200	200	2.18	1 ½" NPT-F	230V/1Ph	1.10	35	22	23	121
RAx 200	200	2.18	1 ½" NPT-F	460V/3Ph	1.22	35	22	23	121
RAx 250	250	2.61	1 ½" NPT-F	230V/1Ph	1.39	35	22	23	139
RAx 250	250	2.61	1 ½" NPT-F	460V/3Ph	1.38	35	22	23	139
RAx 300	300	1.31	2" NPT-F	230V/1Ph	1.64	38	22	25	203
RAx 300	300	1.31	2" NPT-F	460V/3Ph	1.41	38	22	25	203
RAx 350	350	1.89	2" NPT-F	230V/1Ph	2.19	38	22	25	207
RAx 350	350	1.89	2" NPT-F	460V/3Ph	1.80	38	22	25	207
RAx 400	400	1.02	2 ½" NPT-F	230V/1Ph	2.48	44	26	29	331
RAx 400	400	1.02	2 ½" NPT-F	460V/3Ph	2.70	44	26	29	331
RAx 500	500	1.89	2 ½" NPT-F	460V/3Ph	2.97	44	26	29	355
RAx 600	600	2.47	3" Flange	460V/3Ph	2.65	58	31	39	529
RAx 800	800	3.05	3" Flange	460V/3Ph	3.25	58	31	39	534
RAx 1000	1000	2.76	3" Flange	460V/3Ph	4.10	58	31	39	608
RAx 1250	1250	3.77	3" Flange	460V/3Ph	4.60	58	31	39	686
RAx 1500	1500	3.05	4" Flange	460V/3Ph	5.60	69	45	47	1021
RAx 1750	1750	2.03	4" Flange	460V/3Ph	6.40	69	45	47	1186
RAx 2000	2000	2.90	4" Flange	460V/3Ph	7.50	69	45	47	1190
RAx 2500	2500	3.77	4" Flange	460V/3Ph	8.60	69	45	47	1349
RAx 3000	3000	2.90	6" Flange	460V/3Ph	12.20	71	51	69	1830
RAx 4000	4000	2.90	8" Flange	460V/3Ph	15.70	74	55	87	2330
RAx 5000	5000	3.77	8" Flange	460V/3Ph	23.50	74	55	87	2650
RAx 6300	6300	3.20	8" Flange	460V/3Ph	23.70	96	61	85	4040
RAx 7800	7800	4.50	8" Flange	460V/3Ph	26.60	96	61	85	4430

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

Inlet Air Temperature °F	90	100	110	120	130	140	150	160
Correction Factor	1.16	1.00	.82	.68	.61	.52	.45	.40

Ambient Air Temperature °F	80	90	100	105	110	115	120
Correction Factor	1.11	1.09	1.00	.94	.87	.78	.69

Pressure Dew Point °F	38	41	45	50
Correction Factor	1.00	1.08	1.20	1.36

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