



+ 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



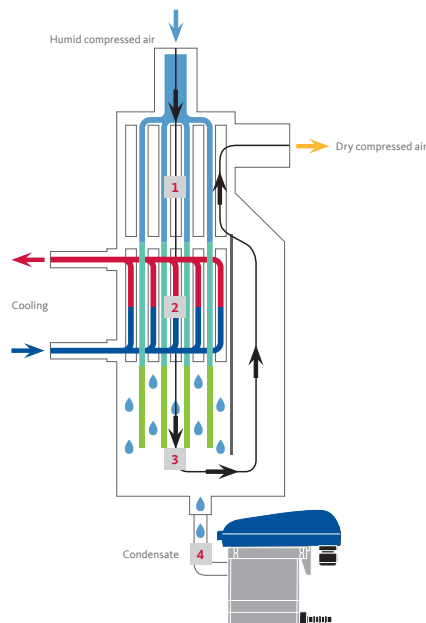
ENERGY SAVING TECHNOLOGY:

increased energy savings compared to competitive models whether cycling or non-cycling

MAINTENANCE FRIENDLY:

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

+ Operating Principle



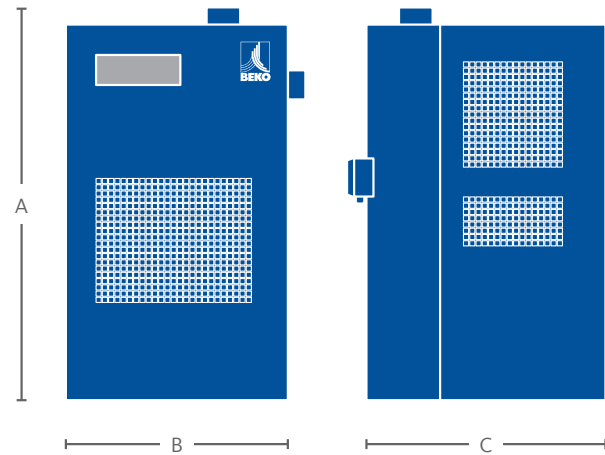
Warm compressed air, saturated with water vapor, is pre-cooled in the air/air heat exchanger (1) when entering the refrigeration dryer. The required cooling capacity of the refrigerant in the downstream air/refrigerant heat exchanger (2) is reduced by this action and the system becomes more energy-efficient.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

ultra efficient cycling dryer with standard BEKOMAT®

Standard outlet pressure dew point	38 °F
Max. inlet air temperature	160 °F
Min. / Max. ambient temperature	34/120 °F
Max. inlet pressure	
RA CT 20-50	232 psig
RA CT 75-5000	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)
RA CT 20	20	.44	½" NPT-F	115V/1Ph	.26	14	17	29	62
RA CT 30	30	1.16	½" NPT-F	115V/1Ph	.27	14	17	29	64
RA CT 50	50	1.60	½" NPT-F	115V/1Ph	.39	14	17	29	75
RA CT 75	75	1.89	1" NPT-F	115V/1Ph	.48	14	17	29	79
RA CT 100	100	2.47	1 ½" NPT-F	115V/1Ph	.58	19	18	32	82
RA CT 125	125	2.18	1 ½" NPT-F	115V/1Ph	1.00	19	18	32	101
RA CT 150	150	2.90	1 ½" NPT-F	115V/1Ph	1.05	19	18	32	110
RA CT 200	200	2.18	1 ½" NPT-F	115V/1Ph	1.10	22	23	35	121
RA CT 250	250	2.61	1 ½" NPT-F	230V/1Ph	1.39	22	23	35	139
RA CT 300	300	1.31	2" NPT-F	230V/1Ph	1.64	22	25	38	203
RA CT 350	350	1.89	2" NPT-F	230V/1Ph	2.19	22	25	38	207
RA CT 400	400	1.02	2 ½" NPT-F	230V/1Ph	2.48	26	29	44	331
RA CT 500	500	1.89	2 ½" NPT-F	460V/3Ph	2.97	26	29	44	355

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	105	110	115	120
Correction Factor	1.11	1.09	1.00	.94	.87	.78	.69

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

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.