



DRYPOINT® RA
THE COMPLETE RANGE
OF HIGHLY EFFICIENT
REFRIGERATION DRYERS

ON DEMAND DRYING FOR EVERY APPLICATION



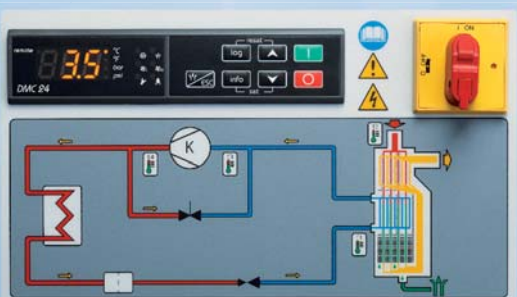
THE RIGHT SOLUTION WHATEVER THE TASK - TRUE INNOVATION IN REFRIGERANT DRYING

BEKO is world renowned for its innovative, solution oriented compressed air technology. Geared to the customers' needs, BEKO presents a comprehensive product portfolio, covering air treatment, condensate technology and process engineering. The compressed air dryer range meets the highest requirements. Membrane dryers, refrigeration dryers, adsorption dryers – BEKO offers highly efficient, environmentally friendly and cost effective compressed air dryers to suit any task.

DMC 18



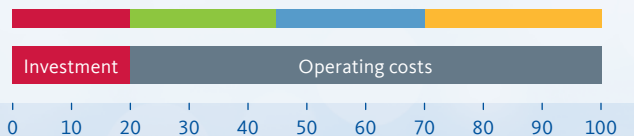
DMC 24



Convincingly Economical

The life-cycle costs of the DRYPOINT® RA in comparison*

Conventional dryer



DRYPOINT® RA with BEKOMAT®



- Investment
- Operating costs
- Electricity requirements
- Pressure loss
- Leakage (drain)

* calculated for a period of five years

FULL RANGE REFRIGERANT DRYING



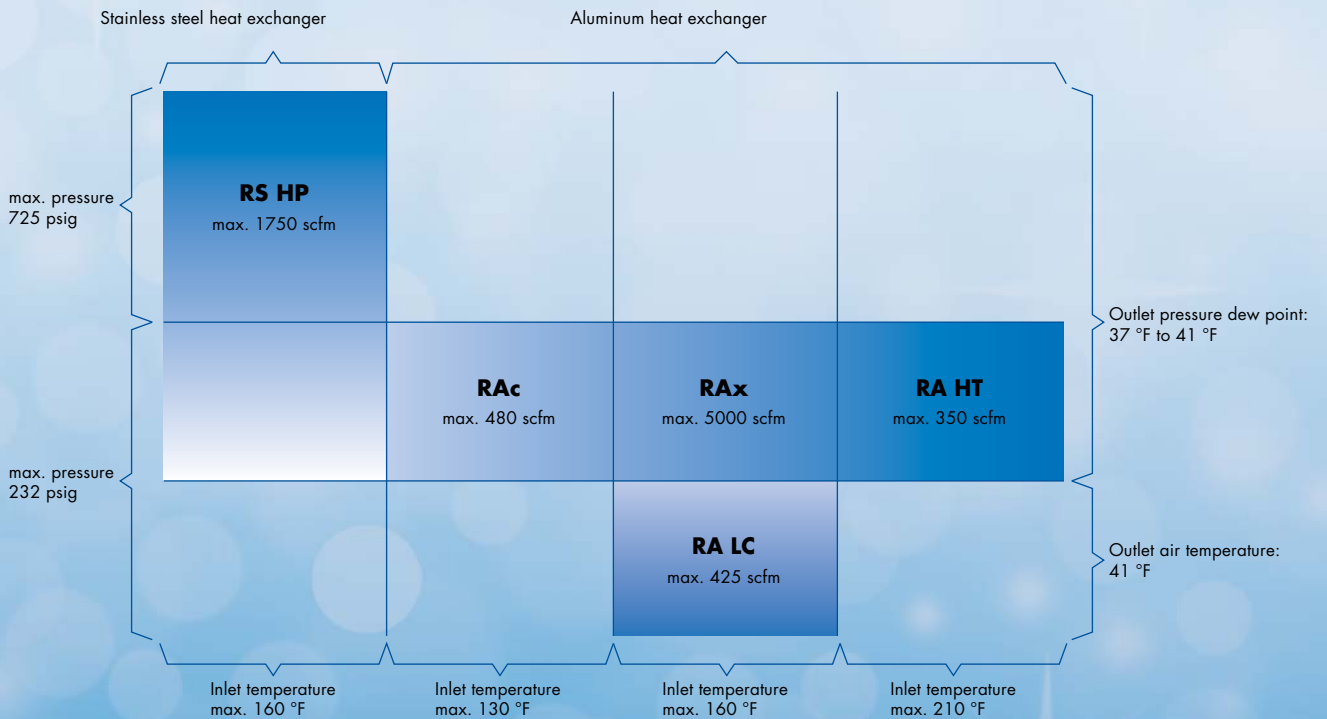
Standard refrigerant air dryers



High pressure air dryers



High temperature air dryers



R407C
OZONE-
FRIENDLY

REFRIGERANT DRYING SYSTEMS

The BEKO product family of compressed air refrigeration dryers provides users with several advanced features creating a balanced and efficient drying system.

The unique VarioFlow technology of the hot gas by-pass valve, utilizes a special, gas charged capsule that operates independently of power or electronic support. Thus providing users with a 100% stable dew point, no maintenance, and zero freeze-up.

The synergistic effect when combined with the standard BEKOMAT® results in a dryer that has a direct effect on reducing energy consumption and displays maximum respect for the environment because nearly every component can be recycled.

This not only adds to the stability and reliability of the dryer, but transforms one of the most inefficient pieces of compressed air treatment equipment into an energy saving one.

+1: ALUMINUM HEAT EXCHANGER

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

+2: INTEGRATED BEKOMAT® DRAIN

Reliable condensate discharge and maximum energy savings

+3: VARIOFLOW HOT GAS BY-PASS

Stable dew point regardless of varying operating conditions - patented design

+4: OPTIMIZED FLOW CHANNELS

Large cross sections provide energy efficiency by reducing pressure drop and power output

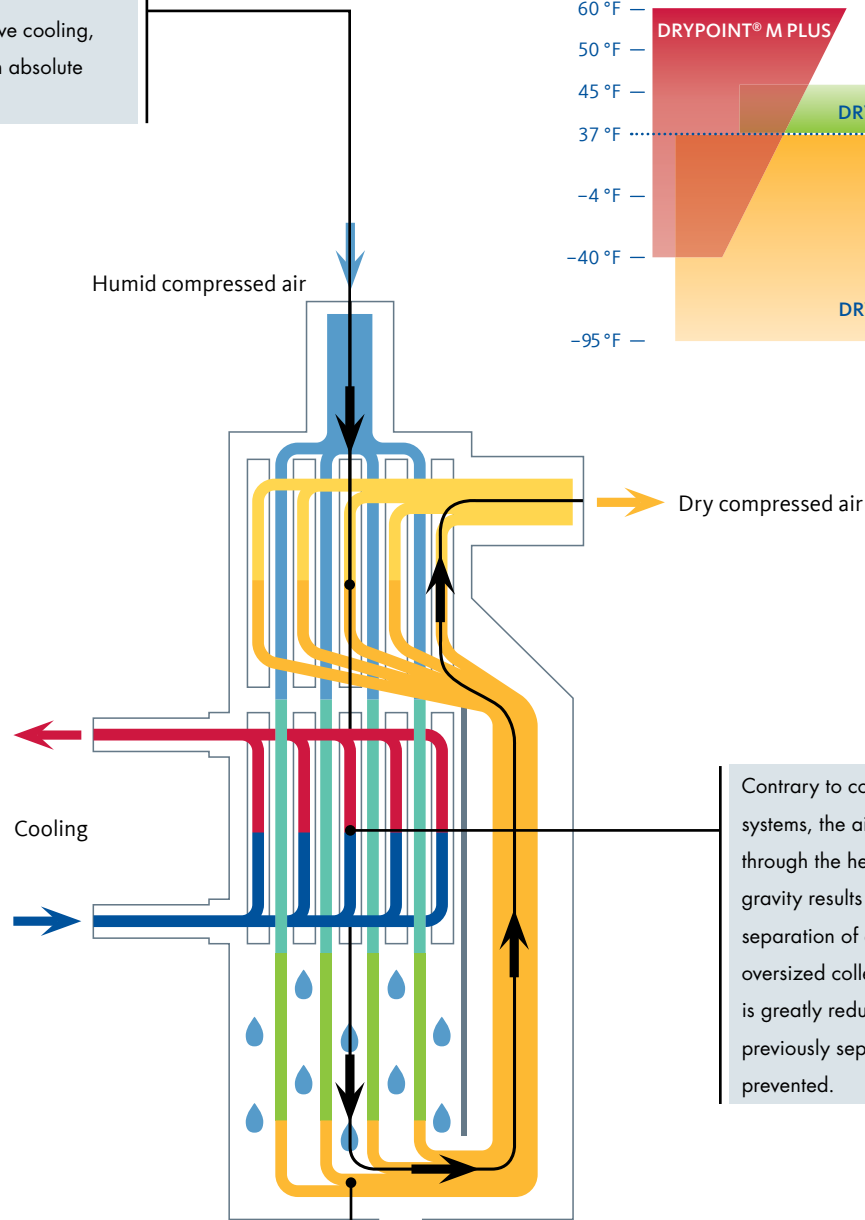
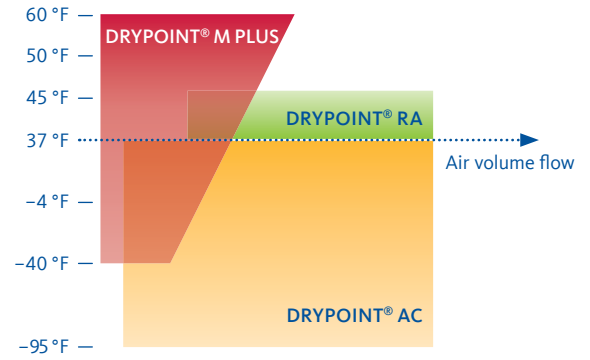
+5: MAINTENANCE FRIENDLY

The compact design and open frame provides easy access to all components



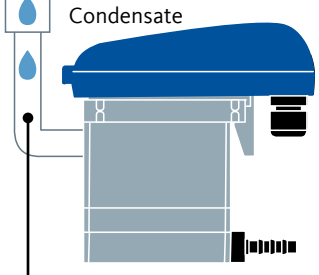
Warm, moisture saturated compressed air enters the dryer and is cooled down to a temperature of +35-41 °F. The generous dimensions of the heat exchanger promote especially effective cooling, while flow resistance is reduced to an absolute minimum.

Highest-quality compressed air – only from BEKO



The dried, cold compressed air is then re-heated in an air-to-air heat exchanger before reaching the outlet and going downstream from the dryer. During this process, the relative humidity of the air is lowered considerably and up to 60% of the cooling energy is recovered.

Contrary to conventional refrigerant drying systems, the air follows a downward path through the heat exchanger. The force of gravity results in a particularly high droplet separation of almost 99%. Within the oversized collection area, the flow velocity is greatly reduced, so the carryover of previously separated droplets is reliably prevented.



Any resulting condensate from the cooling process is discharged from the DRYPOINT® RA unit through the electronic level controlled BEKOMAT® condensate drain in order to maximize energy savings.

DRYPOINT® RAc AND RAx

Three controller types:

DMC 15 (RAc 10 to 480)

- Dewpoint temperature display
- Condenser fan temperature control
- Adjustable high and low dewpoint alarm
- Potential free alarm contacts
- Timer solenoid drain control

DMC 18 (RAx 20 to 500)

- Includes all of the above, plus . . .
- LCD display panel
- BEKOMAT® drain test button
- Displays BEKOMAT® service and alarm

DMC 24 (RAx 600 to 5000)

- Includes all of the above plus . . .
- Fully programmable from the front panel
- Complete LED status indication
- Working hours metering
- Hours until next service metering
- Advanced Service Warning function
- Advanced Alarm Management function
- PC or control system connectivity

Patented, Vario Flow hot gas by-pass valve that is independent from the electronic control board maintains constant pressure guaranteeing a stable dew point without freeze ups, and no adjustments are necessary.



The entire framework, including the electronics, was thoughtfully crafted for each model size to provide maximum performance, easy maintenance, extended service life cycle and a small footprint.

The inclusion of the BEKOMAT® zero air loss drain replaces antiquated and inefficient timer solenoid drains providing the fastest economic payback on the market, and is standard on all RAx models.



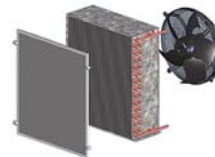
A sound investment with more standard protection devices as standard including, internal fan overload protection, internal compressor overload protection, fully sealed high and low pressure switches, reverse phase and phase loss protection and more.



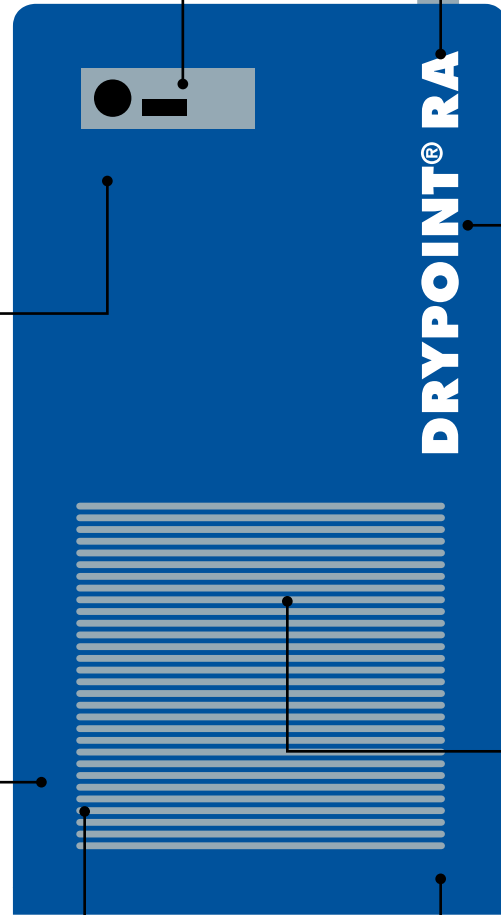
Only high end compressors are used across the entire range ensuring longer service life, higher efficiency and reduced power demand.



The condenser and fan combination was designed to be synergistic in function through proper dimensioning a higher acceptable inlet temperature with maximum performance is achieved.



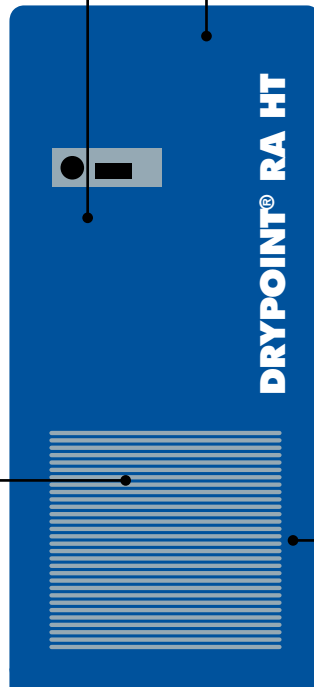
Safer and more environmentally friendly by design - only R134a and R407C are used.



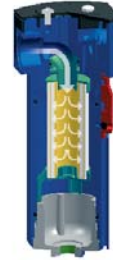
The patented, Vario Flow hot gas by-pass valve is employed on the high temperature series guaranteeing a stable dew point without freeze ups, and no adjustments are necessary.



The same thought and consideration was given to the implementation of the condenser and fan combination to maximize the performance potential of the DRYPOINT® RA HT series.



Features an integrated after cooler that is complete with a CLEARPOINT® pre-filter and BEKOMAT® drain for maximum inlet compressed air processing and energy efficiency.



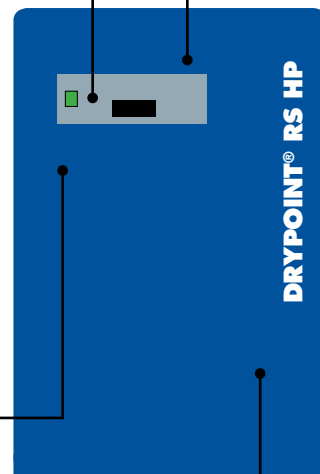
Furthermore, a second BEKOMAT® zero air loss drain is included for post-processing condensate management within the dryer further enhancing the reliability and efficiency of the dryer.



The DRYPOINT® RS HP line carries over the same advanced controllers used in the standard line. There are three controllers available depending on the model size.

- DMC 15 (RS HP 15 to 40)
- DMC 14 (RS HP 50 to 550)
- DMC 24 (RS HP 700 to 1750)

The line is comprised of 17 sizes in 34 variations.



Either a copper tube-in-tube or stainless steel / copper brazed plate heat exchanger design is used depending on the model size. Additional stainless steel components are found throughout the design and regardless of size. The heat exchangers are full counter flow units providing a tight pressure dew point at the outlet, at all times.



The patented, Vario Flow hot gas by-pass valve is employed on the high pressure series as well, resulting the same super constant dew point with no chance of freezing up, and no need for adjustment.



Where most high pressure dryers fail, the RS HP series excel - Featuring a BEKOMAT® 12 CO PN63 zero air loss drain that is rated for up to 915 psig. The reliability is guaranteed 24-7.



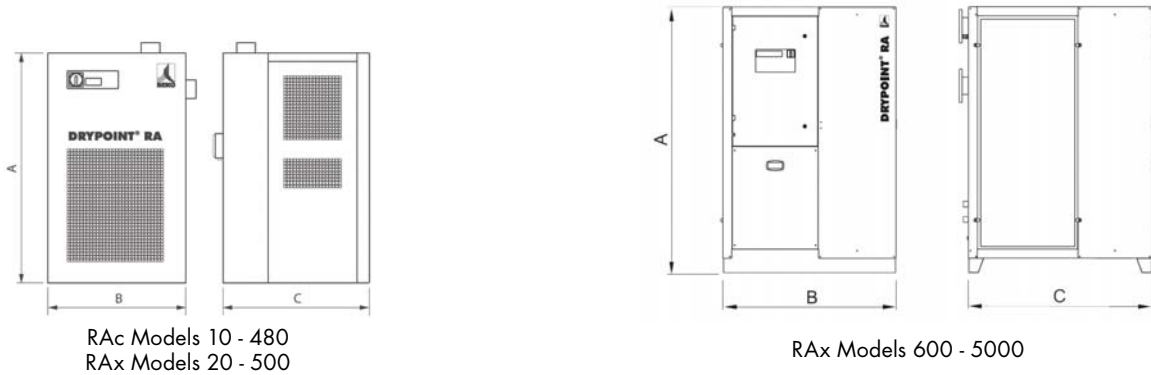
TECHNICAL DATA DRYPOINT® RAc

Model	Flow Rate scfm	Pressure Drop psid	Connection Size	Standard Voltage	Required Pre-Filter	Dimensions			Weight lbs
						A in	B in	C in	
RAc 10	10	2.18	3/8" NPT-F	115V / 1Ph	S040FWF	12	14	17	46
RAc 15	15	0.58	1/2" NPT-F	115V / 1Ph	S045FWF	12	14	17	49
RAc 20	20	1.31	1/2" NPT-F	115V / 1Ph	S045FWF	15	20	19	55
RAc 35	35	2.03	1/2" NPT-F	115V / 1Ph	S050FWF	15	20	19	62
RAc 50	50	4.64	1" NPT-F	115V / 1Ph	S055FWF	15	20	19	71
RAc 75	75	3.48	1" NPT-F	115V / 1Ph	S100FWF	14	17	29	75
RAc 100	100	2.32	1 1/4" NPT-F	115V / 1Ph	S100FWF	14	18	29	86
RAc 125	125	3.48	1 1/4" NPT-F	115V / 1Ph	S100FWF	14	18	29	88
RAc 150	150	4.93	1 1/4" NPT-F	115V / 1Ph	M010FWF	14	18	29	90
RAc 175	175	2.76	1 1/2" NPT-F	230V / 1Ph	M015FWF	22	23	35	119
RAc 220	220	3.63	2" NPT-F	230V / 1Ph	M015FWF	22	23	35	123
RAc 300	300	2.03	2" NPT-F	230V / 1Ph	M020FWF	22	25	38	207
RAc 375	375	2.90	2 1/2" NPT-F	230V / 1Ph	M020FWF	22	25	38	212
RAc 480	480	2.18	2 1/2" NPT-F	230V / 1Ph	M020FWF	26	29	44	317

WARRANTY

To achieve maximum performance, protect the dryer, and in order to obtain the **Full 2-year Warranty**, the installation of a CLEARPOINT® fine filter Type-F (1 um) or finer at the inlet is required. All annual maintenance, including filter element changes, must be carried out in accordance with the manual in order to maintain the warranty on the dryer.

This is applicable to all RAc and RAx model sizes and configurations.



Correction Factors

Operating Pressure psig	60	80	100	120	140	160	180	200
Correction Factor	0.79	0.91	1.00	1.07	1.13	1.18	1.23	1.27

Inlet Temperature °F	90	100	110	120	130
Correction Factor	1.11	1.00	0.80	0.65	0.53

Standard outlet pressure dew point	41 °F
Max. inlet air temperature	130 °F
Min./max. ambient temperature	34 °F / 115 °F
Max. inlet pressure	
RAc 10 - 50	232 psig
RAc 75 - 485	200 psig
Required Pre-filtration	1.0 µm
Recommended Post-filtration	0.01 µm

TECHNICAL DATA DRYPOINT® RAx

Model	Flow Rate scfm	Pressure Drop psid	Connection Size	Standard Voltage	Required Pre-Filter	Dimensions			Weight lbs
						A in	B in	C in	
RAx 20	20	0.44	½" NPT-F	115V / 1Ph	S045FWF	14	17	29	62
RAx 30	30	1.16	½" NPT-F	115V / 1Ph	S045FWF	14	17	29	64
RAx 50	50	1.60	½" NPT-F	115V / 1Ph	S050FWF	14	17	29	75
RAx 75	75	1.89	1" NPT-F	115V / 1Ph	S100FWF	14	17	29	79
RAx 100	100	2.47	1 ¼" NPT-F	115V / 1Ph	S100FWF	19	18	32	82
RAx 125	125	2.18	1 ¼" NPT-F	115V / 1Ph	S100FWF	19	18	32	101
RAx 150	150	2.90	1 ¼" NPT-F	115V / 1Ph	M010FWF	19	18	32	110
RAx 200	200	2.18	1 ½" NPT-F	115V / 1Ph	M015FWF	22	23	35	121
RAx 250	250	2.61	1 ½" NPT-F	230V / 1Ph	M015FWF	22	23	35	139
RAx 300	300	1.31	2" NPT-F	230V / 1Ph	M020FWF	22	25	38	203
RAx 350	350	1.89	2" NPT-F	230V / 1Ph	M020FWF	22	25	38	207
RAx 400	400	1.02	2 ½" NPT-F	230V / 1Ph	M025FWF	26	29	44	331
RAx 500	500	1.89	2 ½" NPT-F	460V / 3Ph	M025FWF	26	29	44	355
RAx 600	600	2.47	3" Flange	460V / 3Ph	M030FWF	31	39	58	529
RAx 800	800	3.05	3" Flange	460V / 3Ph	M030FWF	31	39	58	534
RAx 1000	1000	2.76	3" Flange	460V / 3Ph	M030FWF	31	39	58	608
RAx 1250	1250	3.77	3" Flange	460V / 3Ph	M030FWF	31	39	58	686
RAx 1500	1500	3.05	4" Flange	460V / 3Ph	L100FDB	45	47	69	1021
RAx 1750	1750	2.03	4" Flange	460V / 3Ph	L100FDB	45	47	69	1186
RAx 2000	2000	2.90	4" Flange	460V / 3Ph	L102FDB	45	47	69	1190
RAx 2500	2500	3.77	4" Flange	460V / 3Ph	L102FDB	45	47	69	1349
RAx 3000	3000	2.90	6" Flange	460V / 3Ph	L150FDB	51	69	71	1830
RAx 4000	4000	2.90	6" Flange	460V / 3Ph	L200FDB	55	87	74	2330
RAx 5000	5000	3.77	8" Flange	460V / 3Ph	L200FDB	55	87	74	2650

Correction Factors

Operating Pressure psig	60	80	100	120	140	160	180	200
Correction Factor	0.79	0.91	1.00	1.07	1.13	1.18	1.23	1.27

Inlet Temperature °F	90	100	110	120	130	140	150	160
Correction Factor	1.16	1.00	0.82	0.68	0.61	0.52	0.45	0.40

Standard outlet pressure dew point	38 °F
Max. inlet air temperature	160 °F
Min./max. ambient temperature	34 °F / 120 °F
Max. inlet pressure	
RAx 20 - 50	232 psig
RAx 75 - 5000	200 psig
Required Pre-filtration	1.0 µm
Recommended Post-filtration	0.01 µm

Available Dryer Options	Model Sizes
230V / 1 Ph	RAx 200
460V / 3 Ph	RAx 200 - RAx 400
Water Cooled	RAx 600 - 2500
Sea Water Cooled	RAx 600 - 2500
Anti-Corrosion Treatment	All model sizes
Dryer By-Pass	All model sizes

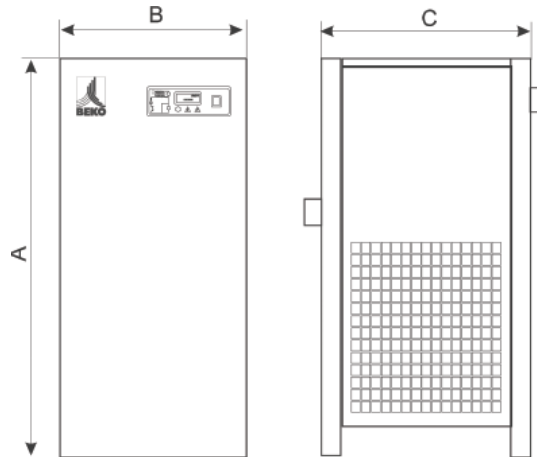
TECHNICAL DATA DRYPOINT® RA HT

Model	+50 °F Outlet		+37 °F Outlet		Connection Size	Operating Voltage	Dimensions			Weight lbs
	Flow Rate scfm	Flow Rate scfm	Flow Rate scfm	Flow Rate scfm			A in	B in	C in	
RA HT 20	27	20	27	20	½" NPT-F	115V / 1Ph	25	17	16	82
RA HT 30	41	30	41	30	½" NPT-F	115V / 1Ph	25	17	16	88
RA HT 30	56	40	56	40	½" NPT-F	115V / 1Ph	25	17	16	90
RA HT 50	68	50	68	50	½" NPT-F	115V / 1Ph	25	17	16	93
RA HT 75	100	75	100	75	1" NPT-F	115V / 1Ph	45	16	18	112
RA HT 100	135	100	135	100	1" NPT-F	115V / 1Ph	52	20	20	134
RA HT 150	205	150	205	150	1 ¼" NPT-F	115V / 1Ph	52	20	20	146
RA HT 200	270	200	270	200	1 ¼" NPT-F	230V / 1Ph	55	22	23	165
RA HT 250	340	250	340	250	1 ½" NPT-F	230V / 1Ph	55	22	23	185
RA HT 300	410	300	410	300	1 ½" NPT-F	230V / 1Ph	59	28	31	291
RA HT 350	475	350	475	350	2" NPT-F	230V / 1Ph	59	28	31	304

WARRANTY

To achieve maximum performance, protect the dryer, and in order to obtain the **Full 2-year Warranty**, the installation of a CLEARPOINT® fine filter Type-F (1 µm) or finer at the inlet is required. All annual maintenance, including filter element changes, must be carried out in accordance with the manual in order to maintain the warranty on the dryer.

This is applicable to all model sizes and configurations



Correction Factors

Operating Pressure psig	60	80	100	120	140	160	180	200
Correction Factor	0.79	0.91	1.00	1.07	1.13	1.18	1.23	1.27

Inlet Temperature °F	140	160	175	180	195	210
Correction Factor	1.25	1.14	1.02	1.00	0.91	0.80

Standard outlet pressure dew point	37 °F
Max. air inlet temperature	210 °F
Min./max. ambient air temperature	35 °F / 122 °F
Max. inlet pressure	200 psig
Required Pre-filtration	included
Recommended Post-filtration	0.01 µm

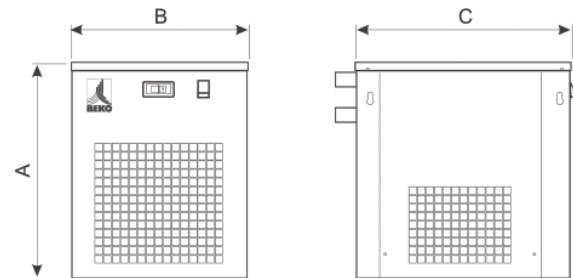
TECHNICAL DATA DRYPOINT® RS HP

Model	Flow Rate scfm	Connection Size	Operating Voltage	Required Pre-Filter	Dimensions			Weight lbs
					A in	B in	C in	
RS HP 15	15	3/8" NPT-F	115V / 1Ph	3/8" NPT-F	18	15	18	62
RS HP 30	30	1/2" NPT-F	115V / 1Ph	1/2" NPT-F	18	15	18	64
RS HP 40	40	1/2" NPT-F	115V / 1Ph	1/2" NPT-F	18	15	18	71
RS HP 50	50	1/2" NPT-F	115V / 1Ph	1/2" NPT-F	24	14	19	79
RS HP 80	80	1/2" NPT-F	115V / 1Ph	1/2" NPT-F	24	14	19	82
RS HP 100	100	1" NPT-F	115V / 1Ph	1" NPT-F	33	20	25	119
RS HP 140	140	1 1/4" NPT-F	115V / 1Ph	1 1/4" NPT-F	33	20	25	130
RS HP 180	180	1 1/4" NPT-F	115V / 1Ph	1 1/4" NPT-F	33	20	25	135
RS HP 260	260	1 1/4" NPT-F	230V / 1Ph	1 1/4" NPT-F	34	22	29	192
RS HP 350	350	1 1/2" NPT-F	230V / 1Ph	1 1/2" NPT-F	34	22	29	240
RS HP 450	450	1 1/2" NPT-F	460V / 3Ph	1 1/2" NPT-F	49	23	26	262
RS HP 550	550	2" NPT-F	460V / 3Ph	2" NPT-F	49	23	26	291
RS HP 700	700	2" NPT-F	460V / 3Ph	2" NPT-F	67	24	46	512
RS HP 900	900	2 1/2" NPT-F	460V / 3Ph	2 1/2" NPT-F	67	24	46	525
RS HP 1100	1100	2 1/2" NPT-F	460V / 3Ph	2 1/2" NPT-F	67	24	46	573
RS HP 1400	1400	3" Flange	460V / 3Ph	3" Flange	63	54	55	948
RS HP 1750	1750	3" Flange	460V / 3Ph	3" Flange	63	54	55	992

WARRANTY

To achieve maximum performance, protect the dryer, and in order to obtain the **Full 2-year Warranty**, the installation of a CLEARPOINT® fine filter Type-F (1 um) or finer at the inlet is required. All annual maintenance, including filter element changes, must be carried out in accordance with the manual in order to maintain the warranty on the dryer.

This is applicable to all model sizes and configurations



Correction Factors

Operating Pressure psig	200	300	350	400	500	600	650	725
Correction Factor	0.70	0.84	0.85	0.86	0.95	1.00	1.03	1.06

Inlet Temperature °F	90	100	110	120	130	140	150	160
Correction Factor	1.16	1.00	0.85	0.73	0.63	0.54	0.47	0.40

Standard outlet pressure dew point	37 °F
Max. air inlet temperature	160 °F
Min./max. ambient air temperature	35 °F / 122 °F
Max. inlet pressure	725 psig
Required Pre-filtration	1.0 µm
Recommended Post-filtration	0.01 µm

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.

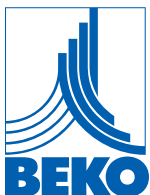
EXPERIENCE

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.
The complete program. Worldwide.*



BEKO TECHNOLOGIES CORP

900 Great SW Parkway Phone +1 (800) 235-6797
Atlanta, GA 30336 Fax +1 (404) 629-6666
USA

www.bekousa.com beko@bekousa.com

