



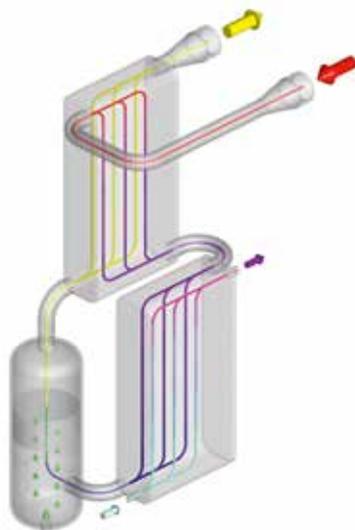
## Drying Technology | DRYPOINT® RS HP

### The refrigeration dryer for high-pressure applications: DRYPOINT® RS HP

The DRYPOINT® RS HP compressed-air refrigeration dryer has been specially developed for applications in which compressed air must be dried efficiently at pressure ranges of 45 bar/ 50 bar. This is frequently the case when manufacturing PET bottles but also for starting up diesel units or with geological bore drilling machinery.

The refrigeration dryer provides maximum safety and reliability with minimum energy consumption. The integrated BEKOMAT® safely drains the condensate that is produced and with no unnecessary loss of compressed air.

The sophisticated, flow-optimised design of the stainless steel plate heat exchanger ensures low resistance compressed air flow. Low energy consumption with very stable pressure dew point is also ensured by optimised refrigeration compressor technology.



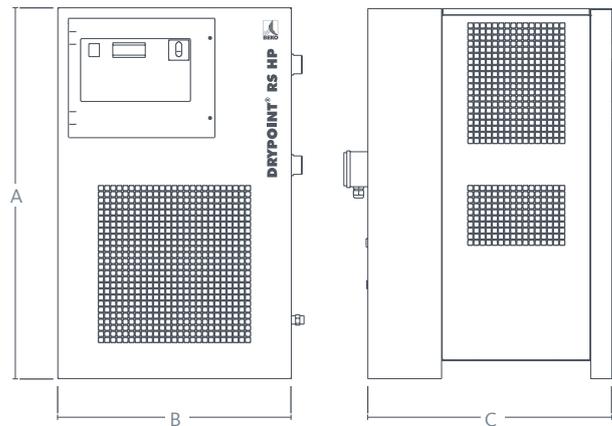
Stainless steel plate heat exchanger

- › **Certified for high pressure applications up to 45 bar / 50 bar**
- › **High durability by utilising a stainless steel plate heat exchanger**
- › **Low energy consumption with stable pressure dew point due to optimised refrigeration compressor technology**
- › **Safe and reliable condensate discharge by utilising BEKOMAT®**
- › **Fulfils the Pressure Device Directive 2014/68/EU**

Better through Responsibility



# Technical data for the DRYPOINT® RS HP



Operating conditions	
Maximum operating pressure RS 25 HP50/AC – RS 1010 HP50/AC	50 bar [g]
Maximum operating pressure RS 1300 HP45/AC – RS 6000 HP45/AC	45 bar [g]
Maximum compressed air inlet temperature	+65 °C
Min. ... max. ambient temperature	+2 ... +50 °C
RS 25 HP50 / AC - RS 135 HP50 / AC	R134.a
RA 180 HP50 /AC - RS 6000 HP45/AC	R407C

Reference conditions according to DIN / ISO 7183	
Volume flow (m <sup>3</sup> /h) at +20 °C	1 bar [g]
Operating pressure (p <sub>1</sub> )	40 bar [g]
Pressure dew point (t <sub>pdp</sub> )	+ 3 °C
Ambient temperature (t <sub>a</sub> )	+ 25 °C
Compressed air inlet temperature (t <sub>i</sub> )	+ 35 °C

Electrical connections (other voltages on request)	
RS 25 HP50/AC – RS 90 HP50/AC	230 V, 50 ... 60 Hz, 1 Ph.
RS 135 HP50/AC – RS 1010 HP50/AC	230 V, 50 Hz, 1 Ph.
RS 1300 HP45/AC – RS 6000 HP45/AC	400 V, 50 Hz, 3 Ph.

DRYPOINT®	RS 25 HP50/AC	RS 45 HP50/AC	RS 70 HP50/AC	RS 90 HP50/AC	RS 135 HP50/AC	RS 180 HP50/AC
Volume flow (Nm³/h)	25	45	72	90	135	180
Power consumption (kW)	0.16	0.18	0.22	0.23	0.46	0.69
Pressure loss ( $\Delta p$ bar [g])	0.25	0.24	0.25	0.23	0.23	0.24
Air connection ( $\emptyset$ in inches)	G 3/8 BSP-F	G 3/8 BSP-F	G 3/8 BSP-F	G 3/4 BSP-F	G 3/4 BSP-F	G 3/4 BSP-F
<b>Dimensions</b>						
A (mm)	475	475	475	740	740	825
B (mm)	370	370	370	345	345	485
C (mm)	515	515	515	420	420	455
Weight (kg)	28	29	32	38	39	50
<b>Order ref.</b>	<b>4020112</b>	<b>4020044</b>	<b>4020113</b>	<b>4020114</b>	<b>4020115</b>	<b>4020116</b>

DRYPOINT®	RS 240 HP50/AC	RS 320 HP50/AC	RS 450 HP50/AC	RS 620 HP50/AC	RS 810 HP50/AC	RS 1010 HP50/AC
Volume flow (Nm³/h)	240	315	450	615	810	1008
Power consumption (kW)	0.75	0.70	0.84	1.10	1.45	1.73
Pressure loss ( $\Delta p$ bar [g])	0.24	0.20	0.22	0.22	0.23	0.22
Air connection ( $\emptyset$ in inches)	G 3/4 BSP-F	G1 BSP-F	G1 BSP-F	G1 BSP-F	G1 1/2 BSP-F	G1 1/2 BSP-F
<b>Dimensions</b>						
A (mm)	825	885	885	885	1105	1105
B (mm)	485	555	555	555	665	665
C (mm)	455	580	580	580	725	725
Weight (kg)	53	89	101	115	156	190
<b>Order ref.</b>	<b>4020117</b>	<b>4020118</b>	<b>4020119</b>	<b>4020120</b>	<b>4020121</b>	<b>4020122</b>

DRYPOINT®	RS 1300 HP45/AC	RS 1600 HP45/AC	RS 2300 HP45/AC	RS 2400 HP45/AC	RS 3000 HP45/AC	RS 4000 HP45/AC	RS 5000 HP45/AC	RS 6000 HP45/AC
Volume flow (m³/h)	1260	1620	2280	2430	3030	4020	5010	6060
Power consumption (kW)	2.55	2.85	3.50	4.30	4.80	5.60	6.40	8.4
Pressure loss ( $\Delta p$ bar [g])	0.22	0.23	0.20	0.25	0.25	0.25	0.26	0.25
Air connection ( $\emptyset$ in inches)	G2 BSP-F	G2 BSP-F	G2 BSP-F	ANSI 3"				
<b>Dimensions</b>								
A (mm)	1465	1465	1465	1745	1745	1745	1745	1810
B (mm)	790	790	790	1135	1135	1135	1135	1350
C (mm)	1000	1000	1000	1205	1205	1205	1205	1750
Weight (kg)	252	265	391	444	461	486	552	754
<b>Order ref.</b>	<b>4020123</b>	<b>4020124</b>	<b>4020125</b>	<b>4020126</b>	<b>4020127</b>	<b>4020128</b>	<b>4020129</b>	<b>4017006</b>

## Correction factors

Operating pressure (bar)	15	20	25	30	35	40	45	50
Correction factor	0.57	0.70	0.80	0.88	0.94	1.00	1.05	1.10

Ambient temperature (°C)	25	30	35	40	45	50
Correction factor	1.00	0.96	0.90	0.82	0.72	0.60

Inlet temperature (°C)	30	35	40	45	50	55	60	65
Correction factor	1.20	1.00	0.83	0.69	0.59	0.50	0.44	0.39

Pressure dew point (°C)	3	5	7	10
Correction factor	1.00	1.09	1.19	1.37

# DRYPOINT® RS HP - Versatile application capabilities:

Manufacturing PET bottles



Geological bore drilling



Ship industries



## Do **you** have questions about the best way of processing your compressed air?

We have the answers! We offer efficient solutions for any type of processing chain. Please contact us with your queries. We would be delighted to tell you more about our condensate

treatment, filtration, drying, measuring and process technology, and our comprehensive services.

Visit us at



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