

RENNER refrigeration dryer RKT stand-alone and for mounting at RENNER compressors



RKT 0035 – RKT 0450 with electronic control and time controlled or level controlled condensate drain

The compressed air is directed into the refrigeration dryer for processing, and pre-cooled in the air/air-heat exchanger. This pre-cooling takes place in a counter clockwise flow to the escaping, cooled compressed air. This is accomplished without any additional requirement for energy. Further cooling to the pressure dew point occurs in the cooling chamber / air-heat exchanger that is cooled by a cooling agent circuit. During the entire cooling process, the moisture escapes as condensate and is automatically dispensed. The processed compressed air is reheated by the discharged compressed air in the air/air-heat exchanger.

The RENNER refrigeration dryers work environmentally and compatible with completely ozone harmless cooling agents R134a and R407c.



Electronic control of the refrigerant dryer

The electronic DDS3 controller is a micro-controller specially developed for compressed air dryers with the following functions:

- Pressure dew point indicator
- Control condensate solenoid valve
- Automatic fan control.



Optional – condensate drain

Level controlled condensate drain with ball valve for easy maintenance. Control DDS5 with alarm contact for dryer.

For further information please see back page.



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RKT 0035 – 0450

Type	Capacity at 7 bar m ³ /min/cfm	Electrical consumption kW	Pressure loss bar	Compressed air outlet inches	Dimensions L x B x D in mm	Weight in kg	Art.-No. (time controlled)	Art.-No. (level controlled)
RKT 0035	0,58/20	0,18	0,06	G½	255 x 455 x 626	29	02557	07723
RKT 0050	0,83/29	0,19	0,09	G½	255 x 455 x 626	30	02558	07724
RKT 0065	1,08/38	0,22	0,11	G½	255 x 455 x 626	31	02559	07725
RKT 0085	1,42/50	0,29	0,15	G½	255 x 455 x 626	33	02560	07726
RKT 0105	1,75/62	0,31	0,40	G½	255 x 455 x 626	42	11541	07727
RKT 0125	2,08/73	0,39	0,22	G1	345 x 525 x 851	46	02562	07728
RKT 0150	2,50/88	0,40	0,28	G1	345 x 525 x 851	46	02551	07729
RKT 0180*	3,00/106	0,53	0,22	G1¼	345 x 525 x 851	47	02563	07730
RKT 0225*	3,75/132	0,73	0,23	G1¼	345 x 525 x 851	68	02564	07731
RKT 0300*	5,00/176	0,80	0,42	G1¼	349 x 668 x 1061	69	02566	07732
RKT 0360*	6,00/212	0,81	0,26	G1½	349 x 668 x 1061	73	02568	07733
RKT 0450*	7,50/266	0,76	0,35	G1½	349 x 668 x 1061	80	02625	07734

Electric supply: 230V, 50-60 Hz, 1 phase / *230V, 50 Hz, 1 phase; according to DIN ISO 7183: with 1 bar absolute and 20°C, dew point 5°C at inlet temperature of 35°C, 25°C ambient temperature and 7 bar.
In refrigeration dryers with level controlled condensate drain, a potentialfree contact for dryer failures is integrated.

Options for RKT

	Art.-No.
Bypass RKT 0035 - RKT 0105	02889
Bypass RKT 0125 - RKT 0150	02890
Bypass RKT 0180 - RKT 0300	02891
Bypass RKT 0360 - RKT 0450	02892

Calculation:

Operating pressure / bar (g)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Factor/f _p	0,60	0,70	0,80	0,88	0,94	1,00	1,04	1,06	1,09	1,10	1,12	1,14	1,15	1,16	1,17	
Dew point/°C	3	5	7	10	Ambient temperature/°C				25	30	35	40	45			
Factor/f _{tpd}	0,9	1,0	1,11	1,25	Factor/f _{ta}				1,00	0,97	0,94	0,87	0,78			
Inlet temperature/°C	30			35	40	45	50	55	Corrected dryer performance:		Volume flow at entry (f _p x f _{ti} x f _{ta} x f _{tpd})					
Factor/f _{ti}	1,28			1,00	0,88	0,75	0,58	0,48								

Supplied by your RENNER distributor:

RENNER GmbH · Kompressoren

Emil-Weber-Strasse 32
D-74363 Gueglingen

Telefon +49 (0) 71 35 / 93 193-0
Fax +49 (0) 71 35 / 93 193-50

E-Mail: info@renner-kompressoren.de
www.renner-kompressoren.de



Reg.-Nr.: Q1 0205013

