

**14 bar**

max. operating pressure

**1,5 to 45 °C**

operating ambient temperature

**3°C**

pressure dew point

**20 to 13.200 Nm<sup>3</sup>/h**

flow rate

**R134a (R407c)**

refrigerant

**air cooled**

type of cooling

## DESCRIPTION

RDP refrigeration dryers have been designed to effectively separate water from the compressed air thus lower pressure dew point all the way down to +3°C.

Drying is achieved on the principle of cooling which takes place inside highly efficient and ultra-compact 3 stage heat exchanger. In the first stage (air-air heat exchanger) hot and humid inlet air is being pre-cooled by the cold outgoing air. In the second stage (air-refrigerant heat exchanger) intensive water condensation takes place due to cooling the air.

All condensed water is separated from the main compressed air stream in the third stage by the integrated demister. A proven and robust design enables efficient and reliable operation, fast installation and simple maintenance.

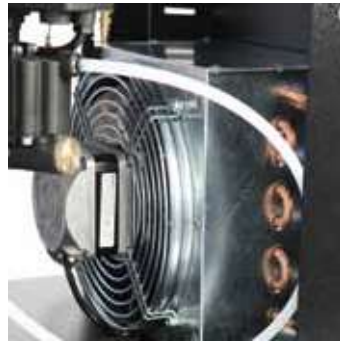
## APPLICATIONS

- Compressed air systems
- Sized to match standard compressor outputs

# RDP SERIES

## REFRIGERATION COMPRESSED AIR DRYERS





**TECHNICAL DATA**

Type	Air flow	Power supply	Dimensions			Power input	Air connection
	Nm <sup>3</sup> /h	Ph / V / Hz	W [mm]	L [mm]	H [mm]	W	
RDP 20	20	1/230/50	358	455	604	150	G 3/8" BSP-F
RDP 35	35	1/230/50	358	455	604	150	G 3/8" BSP-F
RDP 50	50	1/230/50	358	455	604	180	G 3/4" BSP-F
RDP 75	75	1/230/50	358	455	604	250	G 3/4" BSP-F
RDP 100	100	1/230/50	358	455	604	360	G 3/4" BSP-F
RDP 140	140	1/230/50	486	580	904	460	G 1" BSP-F
RDP 180	180	1/230/50	486	580	904	590	G 1" BSP-F
RDP 235	235	1/230/50	486	580	904	840	G 1" BSP-F
RDP 300	300	1/230/50	486	580	904	1,200	G 1 1/2" BSP-F
RDP 380	380	1/230/50	596	735	1,104	1,400	G 1 1/2" BSP-F
RDP 480	480	1/230/50	596	735	1,104	1,900	G 1 1/2" BSP-F
RDP 600	600	1/230/50	718	697	1,405	1,900	G 2" BSP-F
RDP 750	750	3/400/50	596	735	1,104	2,700	G 2" BSP-F
RDP 950	950	3/400/50	718	697	1,405	3,800	G 2" BSP-F
RDP 1150	1,150	3/400/50	823	837	1,426	3,700	G 2 1/2" BSP-F
RDP 1300	1,300	3/400/50	823	837	1,426	4,700	G 2 1/2" BSP-F
RDP 1500	1,500	3/400/50	900	1,100	1,500		G 2 1/2" BSP-F
RDP 1900	1,900	3/400/50	900	1,100	1,500		DN80
RDP 2600	2,600	3/400/50	1,200	1,250	1,750		DN100
RDP 3400	3,400	3/400/50	1,200	1,250	1,750		DN100
RDP 4400	4,400	3/400/50	1,200	1,250	1,750		DN125
RDP 5400	5,400	3/400/50	1,350	1,800	1,850		DN125
RDP 6600	6,600	3/400/50	1,350	1,800	1,850		DN150
RDP 7200	7,200	3/400/50	1,350	1,800	1,850		DN150
RDP 8800	8,800	3/400/50	1,350	1,800	1,850		DN200
RDP 10800	10,800	3/400/50	1,600	2,300	2,500		DN200
RDP 13200	13,200	3/400/50	1,600	2,300	2,500		DN200

**CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES**

Operating pressure [bar]	4	5	6	7	8	10	12	14
Operating pressure [bar]	58	72	87	100	115	145	174	203
Correction factor	0,77	0,86	0,93	1,00	1,05	1,14	1,21	1,27

**CORRECTION FACTOR FOR DEW POINT CHANGES**

Temperature [°C]	3	5	7	10
Temperature [°F]	37,4	41	44,6	50
Correction factor	1,00	1,099	1,209	1,385

**CORRECTION FACTOR FOR INLET TEMPERATURE CHANGES**

Temperature [°C]	≤25	30	35	40	45	50	55
Temperature [°F]	77	86	95	104	113	122	131
Correction factor	1,2	1,12	1	0,83	0,69	0,59	0,5

**CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES**

Temperature [°C]	≤25	30	35	40	45
Temperature [°F]	77	86	95	104	113
Correction factor	1	0,96	0,9	0,82	0,72