RDHP SERIES

REFRIGERATION HIGH PRESSURE COMPRESSED AIR DRYERS

50 bar
max. operating pressure

1,5 to 45 °C
operating ambient temperature

3°C
pressure dew point

20 to 950 Nm³/h
flow rate

R134a
refrigerant

air cooled
type of cooling

DESCRIPTION

RDHP series (high pressure dryers for compressed air systems up to 50 barg) makes the most of manufacturing and functional advantages of heat exchangers, designed for high pressure working conditions.

Drying is achieved on the principle of cooling which takes place with highly efficient three stage air thermal management.

Excellent performance with low pressure drop and constant pressure dew point is standard on this series. Robustness, simple and ergonomic component layout guarantees functionality and efficiency.

APPLICATIONS

- High pressure compressed air systems

TECHNICAL DATA					
Type	Inlet flow	Dimensions			Air connection IN and OUT
	Nm³/h	W [mm]	L [mm]	H [mm]	
RDHP 20	20	358	455	604	G 3/8" BSP-F
RDHP 35	35	358	455	604	G 3/8" BSP-F
RDHP 50	50	358	455	604	G 3/8" BSP-F
RDHP 75	75	358	455	604	G 3/8" BSP-F
RDHP 100	100	358	455	604	G 3/8" BSP-F
RDHP 140	140	486	580	904	G 1/2" BSP-F
RDHP 180	180	486	580	904	G 1/2" BSP-F
RDHP 235	235	486	580	904	G 1/2" BSP-F
RDHP 300	300	486	580	904	G 3/4" BSP-F
RDHP 380	380	596	735	1104	G 3/4" BSP-F
RDHP 480	480	596	735	1104	G 3/4" BSP-F
RDHP 600	600	718	697	1405	G 1" BSP-F
RDHP 750	750	596	735	1104	G 1" BSP-F
RDHP 950	950	718	697	1405	G 1" BSP-F

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES								
Operating pressure [bar]	15	20	25	30	35	40	45	50
Operating pressure [bar]	218	290	363	435	508	580	652	725
Correction factor	0,52	0,64	0,73	0,80	0,85	0,91	0,95	1

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