OHP SERIES

HIGH PRESSURE COMPRESSED AIR DRYERS

operating pressure	**50 (45)** bar
operating temp.range	**1,5** to **65** °C
pressure dew points	**3**°C
flow rate	**25** to **5010** Nm³/h

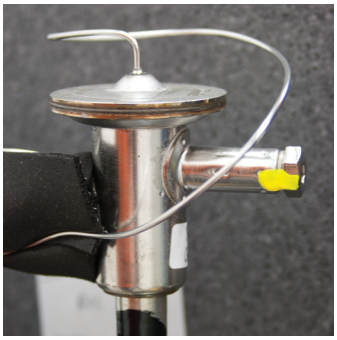
APPLICATIONS

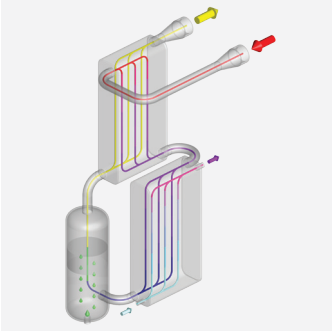
- high pressure compressed air systems

DESCRIPTION

OHP series (high pressure dryers for compressed air systems up to 50 barg) makes the most of manufacturing and functional advantages of brazed plate heat exchangers, which are more suitable for high pressure working conditions (on models OHP 90-3000).

Main features are:
- simple and ergonomic component layouts guarantee functionality and efficiency;
- excellent performance due to low pressure drop and constant pressure Dew Point;
- dryer design is very attractive both aesthetically with a two tone cabinet and practically with a robust casing.





TECHNICAL DATA

Type	Air flow	Max. inlet pressure	Power supply	Dimensions			Zero loss drain (option)	Air connections	Mass net-gross [kg]
	[m³/h]	bar		A [mm]	B [mm]	C [mm]			
OHP 25	25	50	1/230V/50Hz	370	515	475	OBK 1/50	G 3/8'' BSP-F	28-32
OHP 45	45	50	1/230V/50Hz	370	515	475	OBK 1/50	G 3/8'' BSP-F	29-33
OHP 70	72	50	1/230V/50Hz	370	515	475	OBK 1/50	G 3/8'' BSP-F	32-36
OHP 90	90	50	1/230V/50Hz	345	420	740	OBK 1/50	G 3/4'' BSP-F	38-42
OHP 135	135	50	1/230V/50-60Hz	345	420	740	OBK 1/50	G 3/4'' BSP-F	39-43
OHP 180	180	50	1/230V/50Hz	485	455	825	OBK 1/50	G 3/4'' BSP-F	50-57
OHP 240	240	50	1/230V/50-60Hz	485	455	825	OBK 1/50	G 3/4'' BSP-F	53-60
OHP 315	315	50	1/230V/50Hz	555	580	885	OBK 1/50	G 1'' BSP-F	89-101
OHP 450	450	50	1/230V/50-60Hz	555	580	885	OBK 1/50	G 1'' BSP-F	101-113
OHP 600	615	50	1/230V/50-60Hz	555	580	885	OBK 1/50	G 1'' BSP-F	115-128
OHP 800	810	50	1/230V/50Hz	665	725	1105	OBK 1/50	G 1 1/2'' BSP-F	156-176
OHP 1000	1008	50	1/230V/50-60Hz	665	725	1105	OBK 1/50	G 1 1/2'' BSP-F	190-210
OHP 1250	1260	50	3/400V/50Hz	790	1000	1465	OBK 2/50	G 2'' BSP-F	252-293
OHP 1600	1620	45	3/400V/50Hz	790	1000	1465	OBK 2/50	G 2'' BSP-F	265-306
OHP 2250	2280	45	3/400V/50Hz	790	1000	1465	OBK 2/50	G 2'' BSP-F	391-432
OHP 2400	2430	45	3/400V/50Hz	1135	1205	1750	OBK 2/50	Flange ANSI 3''	444-497
OHP 3000	3030	45	3/400V/50Hz	1135	1205	1750	OBK 2/50	Flange ANSI 3''	461-514
OHP 4000	4020	45	3/400V/50Hz	1135	1205	1750	OBK 2/50	Flange ANSI 3''	486-539
OHP 5000	5010	45	3/400V/50Hz	1135	1205	1750	OBK 2/50	Flange ANSI 3''	552-605

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES

Operat. pressure [bar]	15	20	25	30	35	40	45	50
Correction factor C_{OP}	0,57	0,7	0,8	0,88	0,94	1	1,05	1,1

CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES

Temperature [°C]	≤25	30	35	40	45	50
Correction factor C_{AT}	1	0,96	0,9	0,82	0,72	0,6

CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES

Temperature [°C]	≤25	30	35	40	45	50	55	60	65
Correction factor C_{IT}	1,2	1,12	1	0,83	0,69	0,59	0,5	0,44	0,39

CORRECTION FACTOR FOR DEW POINT CHANGES

Temperature [°C]	3	5	7	10
Correction factor C_{DP}	1	1,09	1,19	1,37

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).
CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP} x C_{AT} x C_{IT} x C_{DP}
Data refers to the following nominal conditions: Ambient temperature of 25°C, with inlet air at pressure 40 barg and 35°C - pressure dew point of 3°C.
Max. operating condition : Ambient temperature 50°C , Inlet air temperature 65°C and inlet air pressure 50 barg (45 barg from OHP 1600).