OMH SERIES

HIGH INLET TEMPERATURE DRYERS

operating pressure	**14 (16)**bar
operating temp.range	**90** °C
pressure dew points	**7**°C
flow rate	**46** to **256** Nm³/h

APPLICATIONS

- high temperature compressed air systems

DESCRIPTION

OMH is synonymous of quality/performance at high temperature.

It incorporates a dryer and aftercooler in a single unit; its strong point is that it includes all the latest technologies in a compact design without sacrifing perfomance in extreme operating conditions.

The OMH series was designed in the utmost respect for the environment thanks to the use of ecological refrigerant fluids and the choice of recyclable manufacturing materials.

Compressed air treated with OMH dryer series guarantees high quality standards, conforming to ISO 8573.1, in fact they respect Class 6 for residual humidity and Class 3 for maximum concentration of solid contaminants.

TECHNICAL DATA

Type	Air flow	Operating pressure	Power supply	Dimensions			Air connections	Mass net-gross [kg]
	[m³/h]	bar		A [mm]	B [mm]	C [mm]		
OMH 45	46	16	1f/230V/50Hz	426	416	650	G 1/2''	29-33
OMH 70	68	16	1f/230V/50Hz	426	416	650	G 1/2''	32-36
OMH 100	103	16	1f/230V/50Hz	426	416	650	G 1/2''	38-42
OMH 140	142	14	1f/230V/50Hz	444	440	900	G 1''	39-43
OMH 180	182	14	1f/230V/50Hz	444	440	900	G 1 1/4''	50-57
OMH 250	256	14	1f/230V/50Hz	469	511	900	G 1 1/4''	53-60

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES

Operat. pressure [bar]	4	5	6	7	8	10	12	14
Correction factor C_{OP}	0,77	0,86	0,93	1,00	1,05	1,14	1,21	1,27

CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES

Temperature [°C]	≤30	32	35	40	45
Correction factor C_{AT}	1,13	1,08	1,00	0,90	0,80

CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES

Temperature [°C]	≤70	80	90
Correction factor C_{IT}	1,00	0,90	0,89

CORRECTION FACTOR FOR DEW POINT CHANGES

Temperature [°C]	5	7	10
Correction factor C_{DP}	0,75	1,00	1,087

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 refer to the following nominal conditions: Ambient temperature of 35°C, with inlet air at pressure 7 barg and 70°C and pressure DewPoint 7°C.
Max. operating condition : Ambient temperature 45°C , Inlet air temperature 90°C and Inlet air pressure 14 barg (16 barg for OMH 45-100).