

SERIES EXH 1-3

If moisture is your enemy, DelairTM is your friend. We specialise in the design and development of pressurizers, ambient air, compressed air and gas conditioning equipment to protect electrical and electronic systems in telecommunications, broadcast, commercial and military applications.

By providing accurate humidity control, DelairTM units preserve your equipment, prolong its working life and reduce maintenance requirements.

MOIST AIR

Wave guides are normally pressurized with dry air to prevent the disadvantages of moist air and condensate resulting in corrosion and loss of signal. Although the water vapour transmission of the windows of the wave guide is very low, a continuous diffusion of water molecules from the moist ambient air will diffuse through the window material.

EXHAUST ASSEMBLY

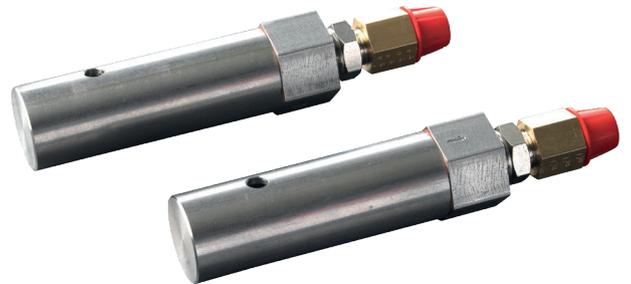
If the wave guide is very tight, there is too little suppletion of dry air to the wave guide. Therefore Delair has developed two systems to prevent the disadvantages of this phenomenon. One of these is a bleeding system by means of an ex-haust assembly. In case of application of an exhaust assembly a very small amount of air is continuously exhausted from the antenna to the atmosphere, so removing possibly introduced water vapour. Dry air is supplied by the dryer again.

CAPILLARY TUBE

The exhaust assembly consists of a rigid stainless steel housing, in which a very precisely calibrated orifice is mounted. It should be fitted to the end of the wave guide, a combination of two wave guides or otherwise. This special orifice is not adjustable. The amount depends on the wave guide pressure.

TYPES

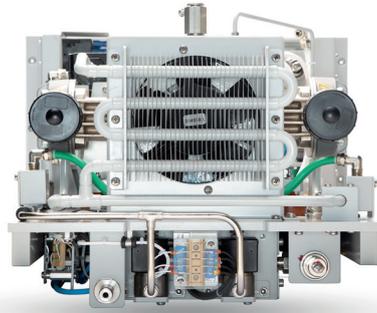
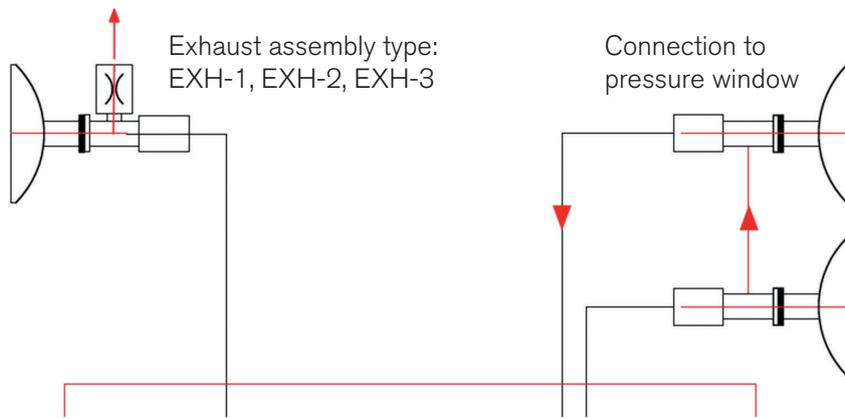
There are several types available. The smallest one is suited to exhaust 0.5 l/h at 10-15 mbar, intended for the smallest wave guides. The selection of the type depends on the volume and the operating pressure of the wave guide and the capacity of the dryer.



Technical Data	EXH-1-3			Dimensions Ø	Connection
Model	Average capacity l/h				
	10-15 mbar	20-30 mbar	40-80 mbar		
EXH 1	0.5	1.5	3.5	22 x 80	1/4" BSP fem.
EXH 2	1	3.5	5	22 x 80	1/4" BSP fem.
EXH 3	1.5	5.5	6.5	22 x 80	1/4" BSP fem.

Nipples for connection to the wave guide		
Model	Size	Accessory
A	1/4" BSP x 1/4" BSP	Teflon Ring
B	1/8" BSP x 1/4" BSP	Teflon Ring
C	M12 x 1.5 x 1/4" BSP	Copper Ring
D	M8 x 0.5 x 1/4" BSP	Klingerit Ring

The standard nipple, Type A 1/4" BXP x 1/4" BSP is included. B, C and D are available on request.



Indoor situation



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