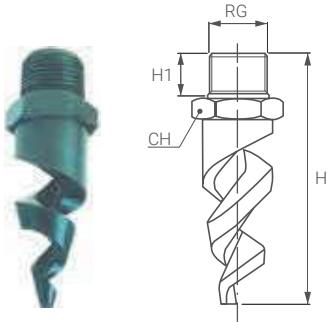


# E-X ( FULL CONE NOZZLES / WIDE PASSAGE )



## SPIRAL NOZZLES / WIDE FREE PASSAGE

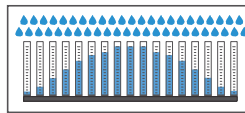
The E-X series nozzles, with their typical elongated spiral design, work on the impact principle, by deflection of a water stream onto their spiral profile that provides the desired spray angle. Their specific shape with no internal parts leaves a larger internal free passage suitable to work with higher capacities and for higher clog resistance than other nozzles of the same size.

The capacity values on darker background can be obtained with metal nozzles only as plastic nozzles cannot ensure resistance in harsh operating conditions. If the capacity values you are looking for are those on darker background, we recommend to chose metal nozzles for their longer operating life.

THREAD SPECIFICATION: BSPT, NPT



Spray section



Convex distribution



TYPICAL APPLICATIONS  
 Gas cooling  
 Exhaust scrubbers  
 Desulfurization  
 Cooling  
 Other applications:  
 Spray of chemicals  
 Fire prevention  
 Fire suppression

120°	CODE	RG inch	D mm	D1 mm	Capacity at different pressure values (l/min) (bar)								Dimensions mm		
					0.7	1.0	2.0	3.0	5.0	7.0	10	H	H1	WS	
120°	<b>ECW 2230 xx Xy</b>	3/8"	4.8	4.8	11.4	13.6	19.2	23.5	30.3	35.9	42.9	70	15	22	
	<b>ECW 2317 xx Xy</b>		5.6	5.6	15.3	18.3	25.9	31.7	40.9	48.4	57.9				
	<b>ECW 2410 xx Xy</b>		6.4	6.4	20.0	24.0	33.9	41.5	53.6	63.4	75.8				
	<b>ECW 2640 xx Xy</b>		7.9	7.9	31.2	37.3	52.7	64.6	83.4	98.7	118				
	<b>EDW 2940 xx Xy</b>	1/2"	9.5	9.5	45.6	54.5	77.1	94.4	122	144	172	86	18	27	
	<b>EDW 3128 xx Xy</b>		11.1	11.1	61.8	73.9	105	128	165	196	234				
	<b>EEW 3165 xx Xy</b>	3/4"	12.7	12.7	79.7	95.3	135	165	213	252	301	130	20	27	
	<b>EFW 3260 xx Xy</b>	1"	16.0	16.0	126	150	212	260	336	397	475	131	26	34	
	<b>EFW 3372 xx Xy</b>		19.0	19.0	180	215	304	372	480	568	679				168
	<b>EHW 3507 xx Xy</b>	1 1/2"	22.2	22.2	245	293	414	507	655	774	926	171	27	50	
	<b>EHW 3663 xx Xy</b>		25.4	25.4	320	383	541	663	856	1013	1210				
	<b>EHW 3747 xx Xy</b>		28.6	28.6	361	431	610	747	964	1141	1364				185
<b>EKW 4109 xx Xy</b>	2"	35.0	35.0	527	629	890	1090	1407	1665	1990	279	32	65		
<b>EKW 4139 xx Xy</b>		38.1	38.1	672	803	1136	1391	1796	2125	2540					
<b>EMW 4204 xx Xy</b>	3"	44.5	44.5	985	1178	1666	2040	2634	3116	3725	267	32	90		
<b>EMW 4265 xx Xy</b>		51.0	51.0	1280	1530	2164	2650	3421	4048	4838					
<b>EPW 4412 xx Xy</b>	4"	63.5	63.5	1990	2379	3364	4120	5319	6293	7522	293	36	115		

## ES / SILICON CARBIDE NOZZLES

PNR designs and supplies spiral nozzles made out of several types of silicon carbide for applications where fluids containing abrasive solid particles must be sprayed and long nozzle service life is required.



## ES / SILICON CARBIDE NOZZLES

### HOW TO MAKE UP THE NOZZLE CODE

Spiral nozzles with extra wide internal passage are widely used in pollution treatment and can be supplied with customized connections. Please refer to the picture of Silicon carbide nozzles on the left. Locknut fitting makes assembly easier and more convenient. This design, the only one possible for Silicon carbide nozzles, is optional for nozzles cast in alloys or stainless steel. To identify such nozzles, please note the following product coding.

### EHW 3747 xx Xy

**xx** = Material code, see MATERIAL table  
**y** = CONNECTION CODE  
**B** - BSPT, Male thread  
**N** - NPT, Male thread  
**F** - Locknut fitting

### HOW TO MAKE UP THE NOZZLE CODE

Ex.: ECW 2230 B31 XB

