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NOMENCLATURE

A_p	plain duct flow cross-sectional area
C	centre-trimmed
D	internal diameter of the channel
f	dimensionless friction factor
g	acceleration due to gravity
Gr	Grashof number
Gz	Graetz number
P	wavy pitch
h_z	axially local heat transfer coefficient
L	axial length, length of the channel
m	mass flow rate
Nu	Nusselt number
ΔP	pressure drop
P	wetted perimeter
Re	Reynolds number
S	Entropy
TR	twist ratio

Greek symbols

β	Synergy angle
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Subscripts

f	bulk fluid
i	inlet
m	mean
o	outlet
w	channel wall
gen	generation