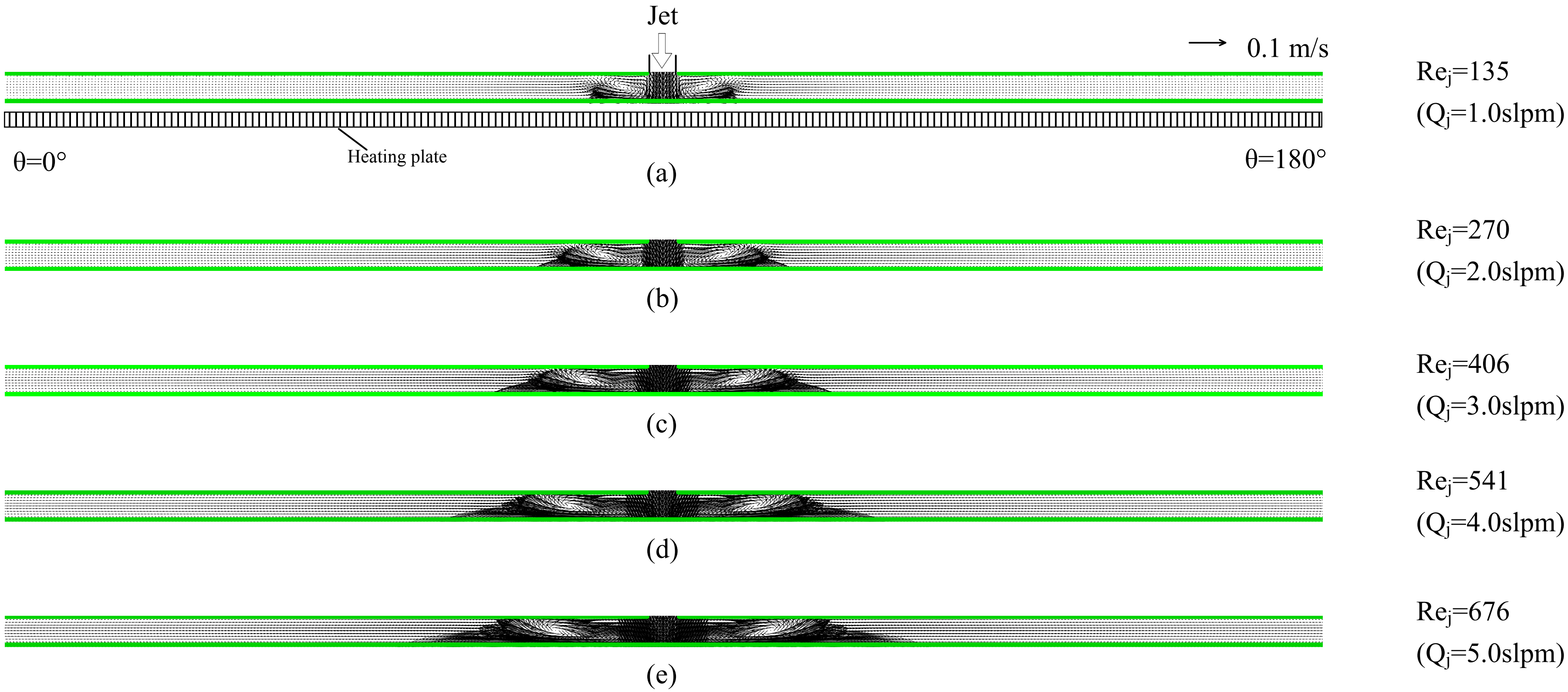

Fig. 4.3 Velocity vectors on the cross plane θ= 0° & 180° at steady state for D_j = 10.0 mm, H = 10.0 mm and Ra = 0 (ΔT = 0℃) for Re_j = (a) 135 (Q_j = 1.0 slpm), (b) 270 (Q_j = 2.0 slpm), (c) 406 (Q_j = 3.0 slpm), (d) 541 (Q_j = 4.0 slpm), and (e) 676 (Q_j = 5.0 slpm).

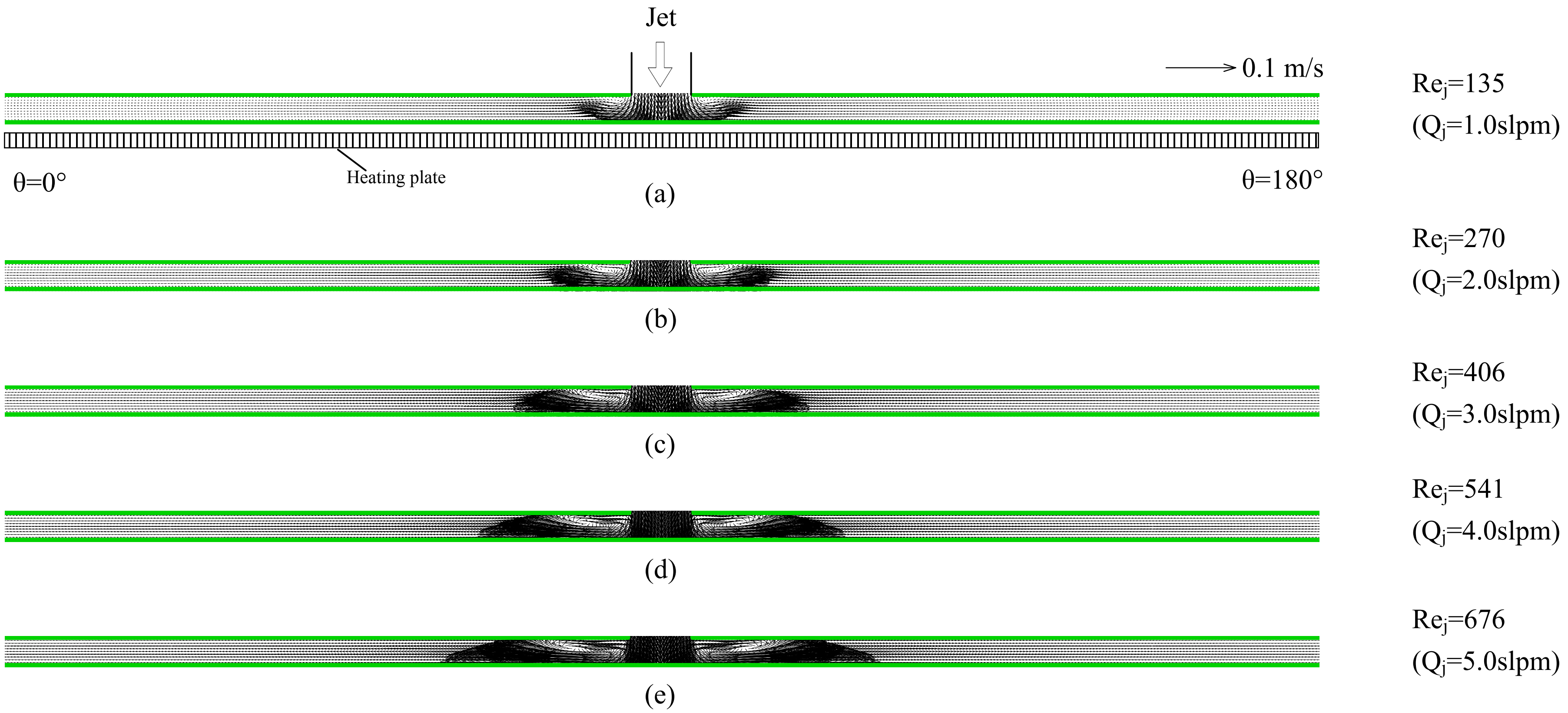

Fig. 4.4 Velocity vectors on the cross plane θ= 0° & 180° at steady state for D_j = 20.0 mm, H = 10.0 mm and Ra = 0 (ΔT = 0℃) for Re_j = (a) 68 (Q_j = 1.0 slpm), (b) 135 (Q_j = 2.0 slpm), (c) 203 (Q_j = 3.0 slpm), (d) 270 (Q_j = 4.0 slpm), and (e) 338 (Q_j = 5.0 slpm).

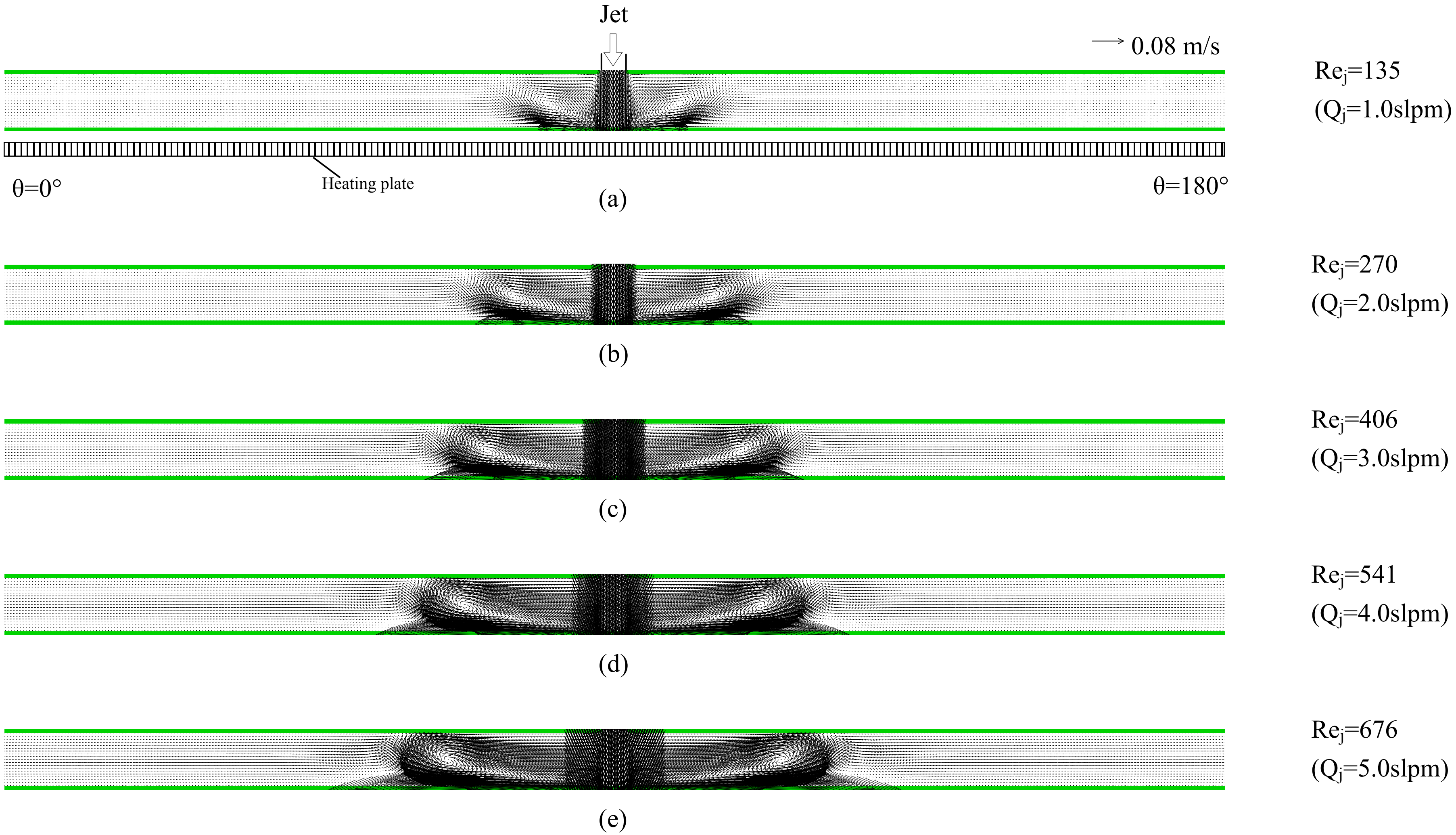

Fig. 4.5 Velocity vectors on the cross plane θ= 0° & 180° at steady state for D_j = 10.0 mm, H = 20.0 mm and Ra = 0 (ΔT = 0℃) for Re_j = (a) 135 (Q_j = 1.0 slpm), (b) 270 (Q_j = 2.0 slpm), (c) 406 (Q_j = 3.0 slpm), (d) 541 (Q_j = 4.0 slpm), and (e) 676 (Q_j = 5.0 slpm).

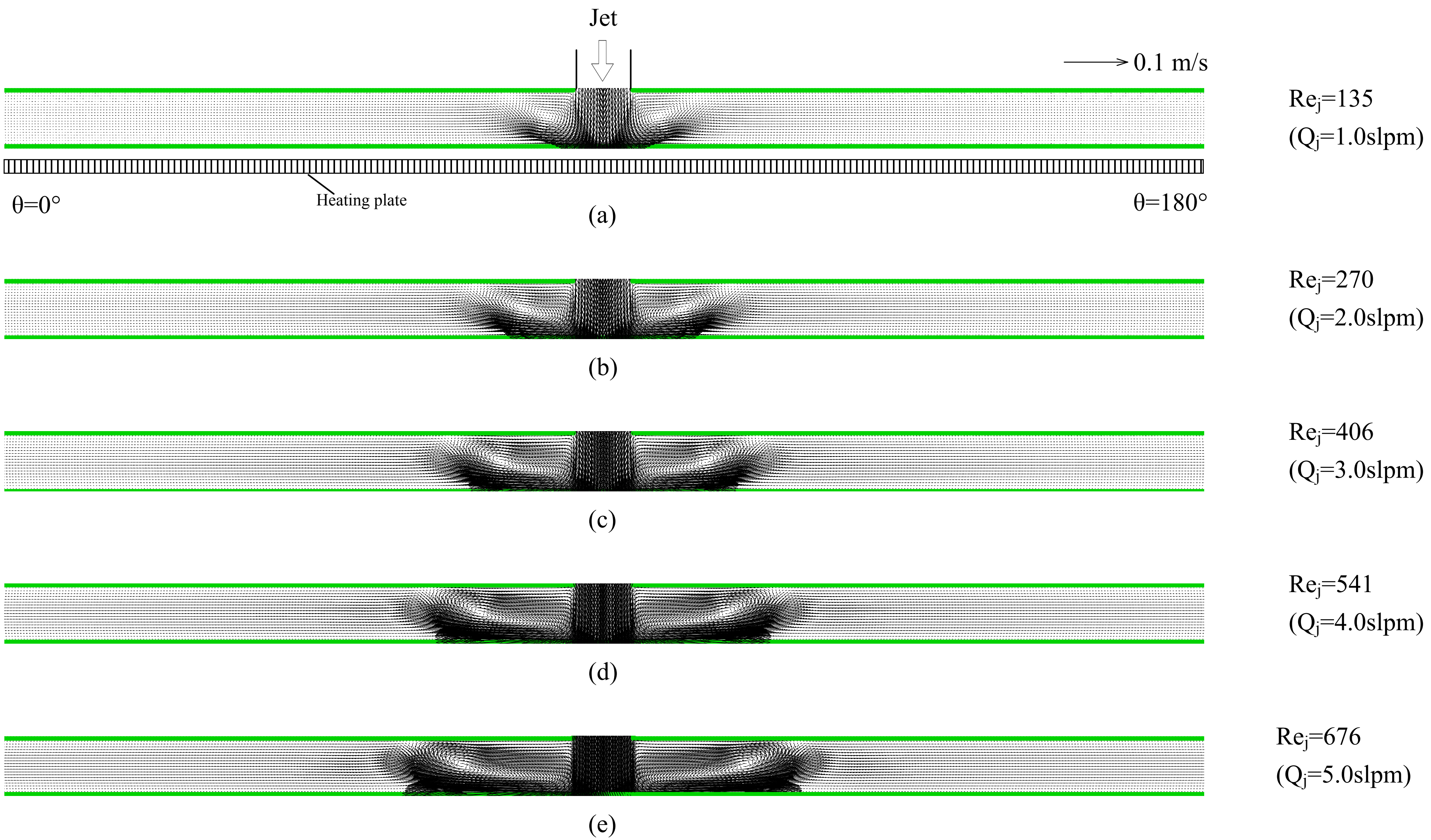

Fig. 4.6 Velocity vectors on the cross plane θ= 0° & 180° at steady state for D_j = 20.0 mm, H = 20.0 mm and Ra = 0 (ΔT = 0℃) for Re_j = (a) 68 (Q_j = 1.0 slpm), (b) 135 (Q_j = 2.0 slpm), (c) 203 (Q_j = 3.0 slpm), (d) 270 (Q_j = 4.0 slpm), and (e) 338 (Q_j = 5.0 slpm).

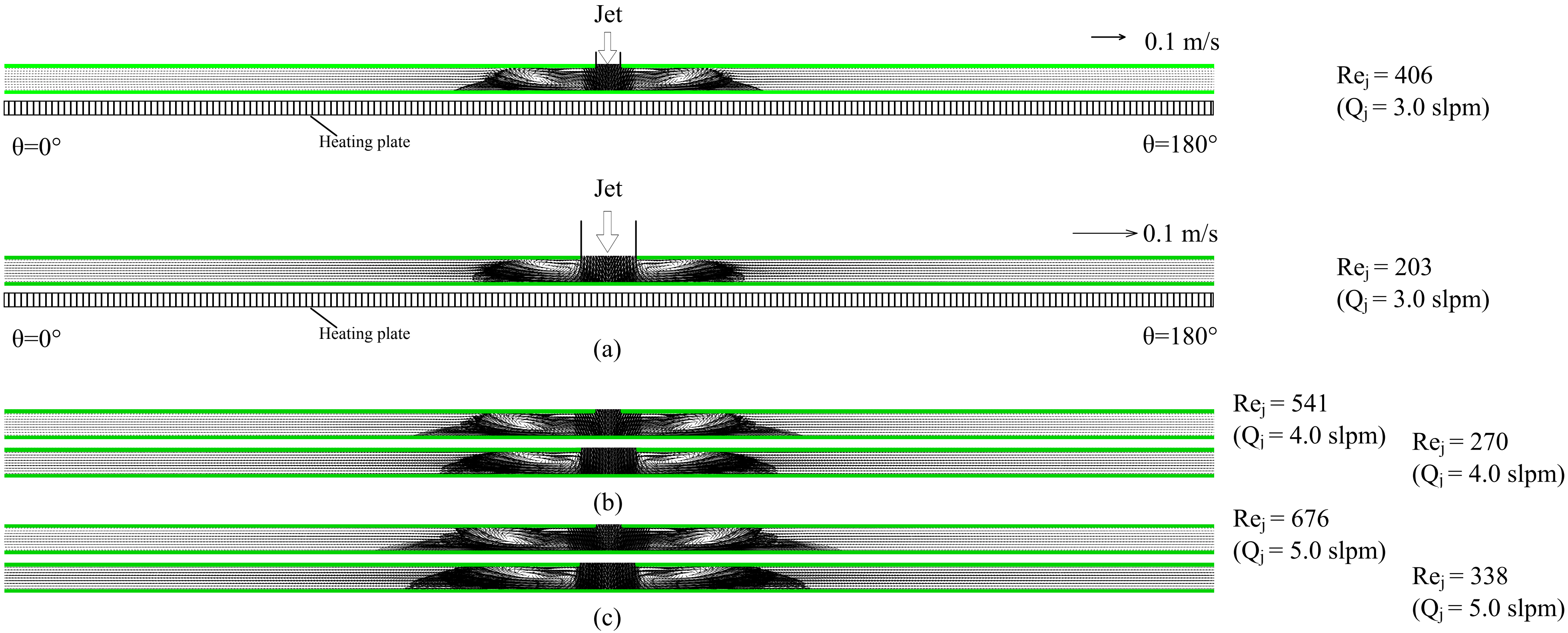

Fig. 4.7 Velocity vectors on the cross plane θ= 0° & 180° at steady state for H = 10.0 mm with D_j = 10.0 & 20.0 mm at Ra = 0 (ΔT = 0℃) for Re_j = (a) 406 and 203 (Q_j = 3.0 slpm), (b) 541 and 270 (Q_j = 4.0 slpm), and (c) 676 and 338 (Q_j = 5.0 slpm).