Mine ventilation air flows across the falling water and cools the water down.

Driving head

Falling, aeration & water cooling

Pump

Upper drift

Downcomer (compression) pipe

Blow off pipe

Raise (never re-entered once flooded)

Air bubbles are compressed and simultaneously cooled by surrounding water flow

Circulating water containing predissolved salt to prevent solution of gas species

Compressed air plenum

Water level control system

Bulkhead

Open bottomed air-water separator

Lower drift