

Particulars of the WR24-7-2 Turbomachinery

Radial Compressor:

Outer Diameter: 149,5mm
Vane Tip Height: 8,5mm
Vane Count: 34 (17 full, 17 splitter)
Intake Diameter: 100,5mm
Hub Diameter: 50,7mm
Intake Vane Angle (Tip): 38°

Diffusor:

Inner Diameter of Vanes: 180mm
Vane Count: 23
Vane Type: Straight Wedges
Vane Width (entry): 7,5mm
Vane Width (exit): 10mm
Exit Diameter of Radial Vanes: 260mm
Vane Angle (to tangent): 17°
Axial Flow Straightener Vane Count: 60
Axial Flow Straightener Vane Height: 7mm

NGV:

Vane Count: 29
Vane Exit Angle: 28°
Hub Diameter: 103mm
Outer Flow Channel Diameter: 130mm

Turbine Wheel:

Hub Diameter: 102,5mm
Outer Diameter: 133,7mm
Axial blade Width at Tip: 9,5mm
Blade Angle at Tip (to Plane of Rotation): 35°
Axial blade Width at Hub: 11,9mm
Blade Angle at Hub (to Plane of Rotation): 45°
Blade Count: 53