

Radiator Test Results

Core dimensional information at:

http://www.paceproducts.co.uk/public_html/php/products_info.php?parent=7&productlD=core/waterradiatorcore

2R12.7W

Heat rejection (kW)		Coolant Flow (l/s)		
		0.5	1.5	3.0
Air side face velocity (m/s)	2	10.5	11.8	12.7
	6	18.9	23.4	23.8
	10	23.8	30.5	31.1

3R12.7W

Heat rejection (kW)		Coolant Flow (l/s)		
		0.5	1.5	3.0
Air side face velocity (m/s)	2	10.4	12.0	12.3
	6	21.3	26.9	29.2
	10	29.0	37.4	40.0

4R12.7W

Heat rejection (kW)		Coolant Flow (l/s)		
		0.5	1.5	3.0
Air side face velocity (m/s)	2	11.4	12.2	12.4
	6	23.4	27.1	30.3
	10	29.9	39.9	42.7

1R40W

Heat rejection (kW)		Coolant Flow (l/s)		
		0.5	1.5	3.0
Air side face velocity (m/s)	2	10.3	11.5	11.9
	6	19.8	23.7	26.1
	10	26.1	32.1	36.2

2R18W

Heat rejection (kW)		Coolant Flow (l/s)		
		0.5	1.5	3.0
Air side face velocity (m/s)	2	10.8	11.5	12.3
	6	21.3	24.2	26.3
	10	30.7	33.6	36.5

Air side pressure drop (Pa)					
Air side face velocity (m/s)	2R12.7W	3R12.7W	4R12.7W	1R40W	2R18W
2	56	64	82	60	56
6	258	346	396	286	277
10	578	794	919	649	637

Water side pressure drop (mbar)					
Coolant Flow (l/s)	2R12.7W	3R12.7W	4R12.7W	1R40W	2R18W
0.5	11	10	9	10	14
1.5	89	68	52	82	121
3.0	342	249	198	300	423

Each core was 300 x 300 mm face size and had basic end tanks welded to them.