

HEAT EXCHANGER VG-46 SIMPLEX

GENERAL

Brand	Cimbria
Designation	Heat exchanger
Model	VG-46 Simplex
Use	Industry
Application	Heating air for use in Cimbria continuous flow dryers.

DIMENSIONS

Overall width	1 118 mm
Overall height	1 306 mm
Overall depth	200 mm

VOLUME AND WEIGHT

Volumetric capacity	27 l
Weight, empty	195 kg

WATER SUPPLY

Water temperature	From +2°C to +110°C
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ENVIRONMENTAL CONDITIONS

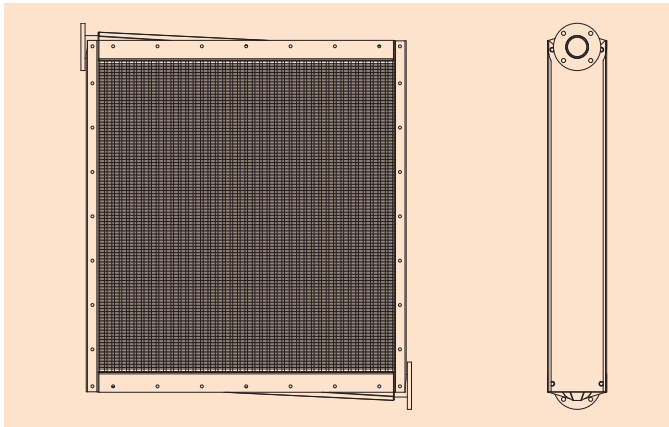
Environment	Indoors or outdoors
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MATERIALS

Frame, tube and fins	Steel, hot-dip galvanized (internal and external)
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LIFETIME

Intended life limit	20 years
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PERFORMANCE

Water temperature [°C]	Water cooling [ΔT°C]	Air volume flow [m³/h]	Air resistance [Pa]	Air temperature [°C]	Water volume flow [m³/h]	Water resistance [hPa]	Effect [kW]	
75	5	6 000	18	50	18	101	73	
		9 000	37	46	22	145	94	
		12 000	67	42	25	171	107	
	10	6 000	6 000	18	46	7	14	65
			9 000	37	43	8	16	89
			12 000	67	40	9	22	111
		15	6 000	18	44	4	4	59
			9 000	37	41	5.6	6	79
			12 000	67	39	6.7	7	96
90	10	6 000	18	54	8	21	79	
		9 000	37	49	9	33	106	
		12 000	67	45	10	44	129	
	15	6 000	6 000	18	55	5	9	78
			9 000	37	50	7	16	99
			12 000	67	48	8	23	119
		20	6 000	18	47	4	7	66
			9 000	37	45	5	9	90
			12 000	67	42	6	13	106
	100	10	6 000	18	60	9	32	96
			9 000	37	55	12	46	129
			12 000	67	51	13	59	159
15		6 000	6 000	18	57	6	15	89
			9 000	37	53	8	25	121
			12 000	67	10	49	34	147
		20	6 000	18	54	4	7	80
			9 000	37	49	5	11	107
			12 000	67	6	46	17	131

* Test conditions: Ambient temperature: 15°C; Relative humidity: 75%.