

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 |
|-------------------|---------------------|

ENVIRONMENTAL CONDITIONS

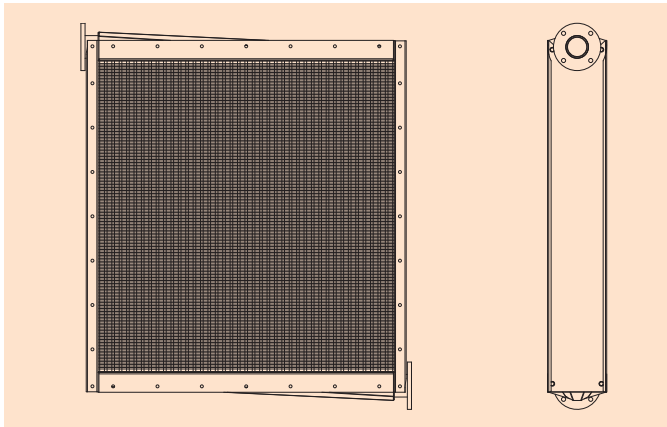
| | |
|-------------|---------------------|
| Environment | Indoors or outdoors |
|-------------|---------------------|

MATERIALS

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

LIFETIME

| | |
|---------------------|----------|
| Intended life limit | 20 years |
|---------------------|----------|



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 |
| | | 9 000 | 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 |
| | | 9 000 | 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 |
| | | 9 000 | 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%.