

AIR-COOLED AFTERCOOLER - ACA



DESCRIPTION

Air cooled aftercoolers series ACA have been designed to reduce compressed air temperature and water vapour dew point in compressed air system. High efficiency axial fan forces ambient air over the heat exchangers copper tubes supported by aluminium fins, which provides the necessary cooling effect. The compressed air is cooled down to approximately 10°C above ambient temperature. ACA aftercoolers ensures the maximum performance and protection of all equipment, such refrigeration dryers, adsorption dryers and filters, positioned downstream of this unit.

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|--------|
| Ambient temperature | 25°C |
| Inlet air temperature | 120°C |
| Max. working pressure | 15barg |
| Inlet air relative humidity | 7% |
| Working pressure | 7barg |
| Max. inlet air temperature | 170°C |
| Ingress protection | IP54 |

The nominal operating condition refers to Δt 10 °C related to ambient temperature.

CORRECTION FACTORS

To calculate the correct capacity of a given dryer based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

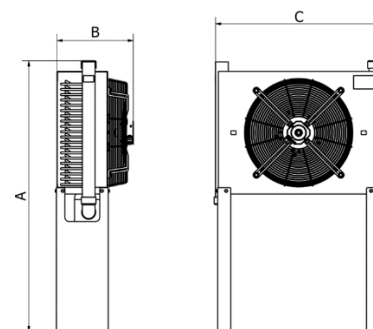
Air cooled: CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE

| | | | | | | | | | | | | | | |
|-----------------------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|
| [bar] | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| [psi] | 29 | 44 | 58 | 72 | 87 | 100 | 115 | 130 | 145 | 160 | 174 | 189 | 203 | 218 |
| C_{OP} | 0,38 | 0,50 | 0,77 | 0,86 | 0,93 | 1 | 1,13 | 1,25 | 1,38 | 1,50 | 1,63 | 1,75 | 1,88 | 2,0 |

SIZES

| MODEL | PIPE SIZE [inch] | POWER SUPPLY [Ph/V/Hz] | FAN DIAMETER [mm] | FAN PWR RATING [W] | COOLING AIR FLOW [Nm ³ /h] | FLOW CAPACITY | | DIMENSIONS [mm] | | | WEIGHT [kg] | PRESSURE DROP [bar] |
|---------|------------------|------------------------|-------------------|--------------------|---------------------------------------|----------------------|--------|-----------------|-----|------|-------------|---------------------|
| | | | | | | [Nm ³ /h] | [scfm] | A | B | C | | |
| ACA 003 | G 1" | 1/230/50 | Ø250 | 40/52 | 400 | 66 | 39 | 930 | 320 | 410 | 19 | 0,15 |
| ACA 007 | G 1" | 1/230/50 | Ø250 | 40/52 | 400 | 126 | 74 | 930 | 320 | 410 | 20 | 0,15 |
| ACA 010 | G 1 1/2" | 3/400/50 | Ø400 | 110 | 2300 | 222 | 131 | 1030 | 370 | 570 | 27 | 0,15 |
| ACA 018 | G 1 1/2" | 3/400/50 | Ø400 | 130 | 3800 | 294 | 173 | 1030 | 390 | 570 | 29 | 0,15 |
| ACA 030 | G 2" | 3/400/50 | Ø500 | 540 | 7000 | 390 | 230 | 1140 | 420 | 770 | 44 | 0,15 |
| ACA 047 | G 2" | 3/400/50 | Ø500 | 540 | 7000 | 522 | 307 | 1280 | 440 | 770 | 48 | 0,15 |
| ACA 070 | G 2" | 3/400/50 | Ø630 | Δ620/Y440 | 8000 | 774 | 456 | 1450 | 570 | 780 | 61 | 0,15 |
| ACA 094 | G 2 1/2" | 3/400/50 | Ø630 | Δ620/Y440 | 8000 | 990 | 583 | 1450 | 570 | 780 | 66 | 0,15 |
| ACA 150 | DN100 | 3/400/50 | Ø800 | 1470 | 21000 | 1260 | 742 | 1640 | 570 | 1620 | 127 | 0,15 |
| ACA 175 | DN100 | 3/400/50 | Ø800 | 1470 | 21000 | 1560 | 918 | 1640 | 570 | 1680 | 143 | 0,15 |
| ACA 240 | DN100 | 3/400/50 | Ø800 | 1470 | 21000 | 1890 | 1112 | 1640 | 570 | 1680 | 148 | 0,15 |
| ACA 300 | DN100 | 3/400/50 | Ø800 | 1470 | 21000 | 2520 | 1483 | 1640 | 570 | 1680 | 166 | 0,15 |
| ACA 450 | DN125 | 3/400/50 | 2xØ800 | 1470 | 2x21000 | 3090 | 1819 | 2150 | 660 | 2540 | 212 | 0,15 |
| ACA 600 | DN125 | 3/400/50 | 2xØ800 | 1470 | 2x21000 | 4500 | 2649 | 2150 | 720 | 2540 | 315 | 0,15 |



PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

ACA 003 F – ACA 094 F

Art.4.3

ACA 150 F – ACA 600 F

Category 1, Module A

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| | Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015 | |
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